ARCADIS

Georgia Power

2025 Annual Groundwater Monitoring and Corrective Action Report

Plant Yates – AP-1
Permit 038-017D(CCR)
Newnan, Georgia

July 31, 2025

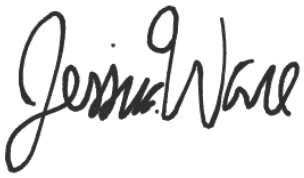
Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates – AP-1
Permit 038-017D(CCR)
Newnan, Georgia

July 31, 2025

Prepared By:
Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 1000
Atlanta
Georgia 30339
Phone: 770 431 8666

Prepared For:
Georgia Power Company
Newnan, Georgia
Coweta County



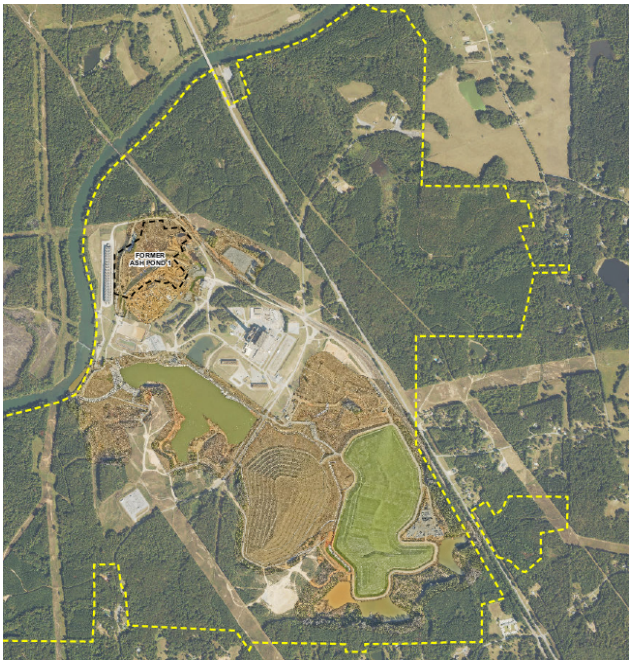
Jessica Ware
Project Task Manager

Geoffrey Gay, P.E.
Technical Expert (Eng), Vice President

Summary

This summary of the 2025 Annual Groundwater Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from July 2024 through June 2025 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Pond (AP) AP-1 (the site). Arcadis U.S., Inc. (Arcadis) prepared this summary on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam generating units. Five of the units were retired in 2015, and two units were converted from coal to natural gas. CCR material resulting from power generation have historically been transferred and stored at the site. The site is located on the northwestern portion of the Plant Yates property. AP-1 was closed by removal of CCR material. The GA EPD approved Closure Permit No. 038-017D(CCR) for Plant Yates AP-1 on January 6, 2022.



Plant Yates and the site

Groundwater at the site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements of Solid Waste Permit (038-017D(CCR)). Routine sampling and reporting began in 2019 after the completion of eight background sampling events. Based on groundwater conditions at the site, an assessment monitoring program was established on November 13, 2019. During this 2025 annual reporting period, the site remained in assessment monitoring.

During this reporting period, Arcadis conducted groundwater sampling events in August 2024 and February 2025. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV[3] parameters[4].

[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

[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] A statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the USEPA RSL, if no MCL is available, or the calculated background interwell prediction limit.

Appendix III Parameter	August 2024	February 2025
Boron	YGWC-44, YGWC-45, YGWC-46A	YGWC-44, YGWC-46A
Calcium	YGWC-45, YGWC-46A, YGWC-52	YGWC-45, YGWC-46A
Chloride	YGWC-44, YGWC-46A	YGWC-46A
Sulfate	YGWC-45, YGWC-46A	YGWC-45, YGWC-46A
Total Dissolved Solids	YGWC-44, YGWC-45, YGWC-46A	YGWC-45, YGWC-46A

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program, the site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the site. Reports will be posted to the website and provided to Georgia Environmental Protection Division (GA EPD) semiannually.

Contents

Summary i

Acronyms and Abbreviations v

Professional Certification vi

1 Introduction 1

1.1 Site Description and Background 1

1.2 Site Geology and Hydrogeologic Setting 1

1.3 Groundwater Monitoring Well Network and CCR Unit Description 2

2 Groundwater Monitoring 2

2.1 Monitoring Well Installation and Maintenance 3

2.2 Assessment Monitoring 3

3 Sampling Methodology and Analysis 3

3.1 Groundwater Flow Direction, Gradient, and Velocity 3

3.2 Groundwater Sampling 4

3.3 Laboratory Analysis 4

3.4 Data Quality Assurance/Quality Control and Validation 5

4 Statistical Analysis 5

4.1 Statistical Methods 5

4.1.1 Appendix III Constituents 5

4.1.2 Appendix IV Assessment Monitoring Statistics 6

4.2 Statistical Analysis Results 7

4.2.1 Appendix III Constituents 7

4.2.2 Appendix IV Assessment Monitoring Constituents 7

5 Monitoring Program Status 7

6 Conclusions and Future Actions 7

7 References 7

Tables

Table 1. **Monitoring Network Well Summary**

Table 2. **Groundwater Sampling Event Summary**

Table 3. **Groundwater Monitoring Parameters**

Table 4. **Summary of Groundwater Elevations**

Table 5. **Groundwater Flow Velocity Calculations**

Table 6a. **Groundwater Analytical Data – August 2024 and February 2025**

Table 6b. **Upgradient Groundwater Analytical Data – August 2024 and February 2025**

Table 7. **Background Levels and Groundwater Protection Standards**

Figures

Figure 1. **Site Location Map**

Figure 2. **Plant Yates CCR Removal Areas**

Figure 3. **Well Location Map**

Figure 4. **Sitewide Groundwater Elevation Map – August 2024**

Figure 5. **Sitewide Groundwater Elevation Map – February 2025**

Figure 6. **Groundwater Elevation Map – August 2024**

Figure 7. **Groundwater Elevation Map – February 2025**

Appendices

A **Laboratory Analytical and Data Validation Reports**

B **Field Sampling Reports**

C **Statistical Analysis**

Acronyms and Abbreviations

ACC	Atlantic Coast Consulting, Inc.
AP	Plant Yates Ash Ponds
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
EPD	Environmental Protection Division
GAEPD	Georgia Environmental Protection Division
GPC	Georgia Power Company
GWPS	Groundwater Protection Standard
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	milligrams per liter
ORP	oxidation-reduction potential
QA/QC	Quality Assurance/Quality Control
SSI	Statistically Significant Increase
SSL	statistically significant level
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

Professional Certification

This 2025 Annual Groundwater Monitoring and Corrective Action Report, Plant Yates (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 Arcadis, U.S., 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.

Arcadis U.S., Inc.

7.31.25

J. Geoffrey Gay, P.E.
Technical Expert (Eng)
Georgia Registration No. PE 27801

Date

1 Introduction

This 2025 Annual Groundwater Monitoring and Corrective Action Report documents groundwater monitoring conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-1 (the site) between July 2024 and June 2025. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rules are cited within this report.

Groundwater monitoring and reporting for CCR units is performed in accordance with the monitoring requirements §§ 257.90 through 257.95 of the Federal CCR Rule and the GAEPD Rule 391-3-4-10(6)(a)-(c). An assessment monitoring notification was placed in the operating record in November 2019 based on statistically significant increases (SSIs) documented in the 2019 Annual Groundwater Monitoring and Corrective Action Report. This report presents the results of the semiannual monitoring for Appendix III and IV of 40 CFR 257 constituents conducted in August 2024 and February 2025.

1.1 Site Description and Background

Plant Yates is located at 708 Dyer Road on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line. The site is approximately 8 miles northwest of the City of Newnan and 13 miles southeast of the City of Carrollton. Plant Yates occupies approximately 2,400 acres. **Figure 1** depicts the site location relative to the surrounding area.

AP-1 was closed by removal; the CCR material was removed from AP-1 to the R6 CCR on-site landfill; a smaller portion was used to establish final grades for a portion of the AMA. GAEPD provided an acknowledgement of removal of CCR in a letter dated November 3, 2020. A permit application to comply with GAEPD Rules was submitted in November 2018 and approved on January 6, 2022 (038-017D(CCR)). Semiannual reporting is completed pursuant to 391-3-4-.10(6)(c). Areas where CCR Removal Reports have been submitted to GAEPD are shown in **Figure 2**.

1.2 Site Geology and Hydrogeologic Setting

Plant Yates is located in the Inner Piedmont Physiographic Province of western Georgia, immediately southeast of the Brevard Zone, a regional fault zone that separates the Piedmont from the Blue Ridge. Rock units at Plant Yates are primarily interlayered gneiss and schists. The rocks in the area have been subjected to extensive metamorphism, deformation, and igneous intrusions. Extensive fracture sets are present in the underlying bedrock. Surface expressions of these fractures are observed on topographic maps and aerial photos of the Plant Yates area (ACC 2019).

A thin layer of soil from 1 to 2 feet thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 feet below ground surface, was formed in place by the physical and chemical weathering of the underlying metamorphic rocks. The saprolite typically consists of clay and silt-rich soils that grade to sandier soils with depth. A zone of variable thickness (approximately 5 to 20 feet) of transitionally weathered rock typically exists between the saprolite and competent bedrock. The lithology of the transition zone is highly variable and ranges from medium to coarse unconsolidated material to highly fractured and weathered rock fragments.

Localized alluvial soils consisting of generally coarser material (silty-sand, clayey silt, and silty clay with well-rounded gravel and cobbles) that have been observed in saprolite may be related to historical river channel migration.

At Plant Yates, groundwater is typically encountered slightly above the saprolite/weathered rock interface. Groundwater flow in the saprolite zone is through interconnected pores and relict textures and fractures. As the rock becomes increasingly competent with depth, groundwater flow occurs mainly through joints and fractures (i.e., secondary porosity). Recharge to the water-bearing zones in fractured bedrock takes place by seepage through the overlying mantle of soil/saprolite, or by direct entrance through openings in outcrops. The average depth of the water table at Plant Yates varies with topography, ranging from approximately 5 to 50 feet below ground surface. The water table occurs in the saprolite and in the transitionally weathered zone, at least several feet above the top of rock.

Field hydraulic conductivity tests (i.e., slug tests) have been performed in saprolite and weathered bedrock at multiple locations at the site. The hydraulic conductivity at these locations is typically in a range from 10^{-3} to 10^{-4} centimeters per second, based on multiple rising-head and falling-head slug tests conducted in 2017 (ACC 2021). This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The hydraulic conductivity values from the field tests fall within a range consistent with that of Piedmont overburden (Newell et al. 1990).

1.3 Groundwater Monitoring Well Network and CCR Unit Description

Pursuant to § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at Plant Yates' AP-1 CCR Unit. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction. The compliance monitoring well network is summarized in **Table 1** along with a series of piezometers installed to supplement groundwater elevation measurements. Upgradient monitoring well GWA-2 was abandoned on January 7, 2025 following the termination of the Gypsum Landfill Permit provided in GA EPD's November 25, 2024 letter. The historical data from GWA-2 will continue to be managed as part of the Site's upgradient well dataset.

As typical of the Piedmont Physiographic Province, there is a degree of connectivity between the saprolite and partially weathered rock units. Fractured bedrock may or may not be connected to the overlying units, and flow may be controlled by geologic structures present. Based on the site hydrogeology, the monitoring system is designed to monitor groundwater flow in the saprolite, the transition zone, and the upper bedrock. The monitoring well network for the site is illustrated on **Figure 3**.

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in the second half of 2024 through the first half of 2025 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each detection monitoring well in the certified monitoring system shown on **Figure 3**.

Table 2 summarizes groundwater sampling events conducted at the site from July 2024 through June 2025. During the August 2024 and February 2025 events, groundwater samples were collected for both 40 CFR Part 257 Appendix III and Appendix IV constituents. Laboratory reports for the monitoring events are presented in **Appendix A**. Field sampling logs are provided in **Appendix B**.

2.1 Monitoring Well Installation and Maintenance

Monitoring well-related activities were limited to visual inspection of well conditions before sampling, recording the site conditions, and performing exterior maintenance to provide safe access for sampling. Details regarding the wells are included in **Table 1,** and locations are presented on **Figure 3**.

Monitoring wells are inspected semiannually to determine 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 August 2024 and February 2025, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed where necessary, as documented in **Appendix B**. There were no well maintenance issues during this period that required corrective actions.

2.2 Assessment Monitoring

SSIs of Appendix III constituents were identified in the initial detection monitoring event (March 2019). Pursuant to 40 CFR §§ 257.95(b) and 257.95(d)(1), groundwater samples collected in August 2024 and February 2025 from the CCR monitoring wells were analyzed for Appendix III and Appendix IV constituents. **Table 3** provides a summary of constituents monitored during the events.

3 Sampling Methodology and Analysis

Groundwater monitoring methods used at the site are described in the following sections.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, static water elevations were recorded from piezometers and wells in the well network at AP-1. Groundwater elevations recorded during the August 2024 and February 2025 monitoring events are summarized in **Table 4**. Sitewide and AP-1 potentiometric surface maps are provided in **Figures 4 and 5**, respectively. The general direction of groundwater flow across the site is towards the west/southwest and is consistent with historical patterns.

The groundwater flow velocity at Plant Yates was calculated using a derivation of Darcy's Law.

Specifically:

$$v = \frac{k\left(\frac{dh}{dl}\right)}{n_e}$$

where:

v = groundwater seepage velocity
k = hydraulic conductivity
dh/dl = hydraulic gradient
n_e = effective porosity

Groundwater flow velocities were calculated for the site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979). The groundwater flow velocity has been calculated and presented in **Table 5**. The calculated average flow velocity is 1.2 feet per day or 438 feet per year. These calculated groundwater velocities across the site are generally consistent with historical calculations and with expected velocities in the site-specific geology.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Monitoring wells were purged and sampled using a dedicated bladder pump until water quality parameters stabilized. For wells sampled with non-dedicated bladder pumps, the pumps were lowered into the well so that the intake was at the midpoint of the well screen (or as appropriate determined by the water level). Non-disposable equipment was decontaminated before use and between well locations.

An AquaTroll 600™ (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, temperature, oxidation-reduction potential [ORP], and dissolved oxygen [DO]) during well purging to verify stabilization before sampling. Turbidity was measured using a portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

- ± 0.1 standard units for pH;
- ± 5% for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units; and
- ±10% or ±0.2 mg/L (whichever is greater) for DO where DO >0.5 mg/L. If DO <0.5 mg/L no stabilization criteria apply.

Once stabilization was achieved, samples were collected directly into laboratory-supplied sample containers with preservative (where applicable). The samples were placed on ice in an insulated cooler following their collection. The samples were submitted to Pace Analytical Services, LLC (following chain-of-custody protocol). Stabilization logs for each well and daily field calibration forms are included in **Appendix B**.

3.3 Laboratory Analysis

Groundwater samples collected during the August 2024 and February 2025 semiannual assessment events were analyzed for Appendix III parameters as well as Appendix IV parameters in accordance with 40 CFR §§ 257.95(b) and 257.95(d)(1). **Table 3** provides a summary of the constituents monitored during the event. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix A**.

Analytical data from the semiannual sampling for AP-1, and the upgradient wells collected in compliance with the CCR Rule, are summarized in **Tables 6a and 6b**, respectively. Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project. Laboratory reports and chain-of-custody records for the monitoring events are presented in **Appendix A**.

3.4 Data Quality Assurance/Quality Control and Validation

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one per 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment is used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post-digestion spikes, laboratory and field duplicate relative percent differences, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags have been applied to the data using USEPA procedures as guidance (USEPA 2017). The data validation reports, prepared by Arcadis and included in **Appendix A,** summarize the validation actions and applicable interpretation.

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling activities, quality control samples, and data associated with the chemical analytical results. The validated data meet project objectives and the associated data validation reports are provided in **Appendix A** along with the laboratory reports.

Values followed by a "J" flag indicate that the value is an estimated analyte concentration detected between the MDL and the laboratory reporting limit. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. “J” flagged data are used to establish background statistical limits but are not used when performing statistical analyses.

4 Statistical Analysis

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on samples collected from the AP-1 groundwater monitoring network pursuant to § 257.93(f) in August 2024 and February 2025. The statistical method used at the site was developed in accordance with 40 CFR § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (USEPA 2009).

4.1 Statistical Methods

The Sanitas™ groundwater statistical software was used to perform the statistical analyses. Sanitas™ is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the Unified Guidance document (USEPA 2009). Although assessment monitoring has been implemented, statistical evaluation of Appendix III constituents is performed to determine whether constituents have returned to background conditions.

4.1.1 Appendix III Constituents

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters. This method uses sitewide pooled upgradient monitoring well data to establish a background statistical limit. Data from the semiannual events are compared to the statistical limit to determine whether concentrations exceeded background levels. The statistical method incorporates an optional 1-of-2 verification resample plan. When an initial SSI or questionable

result occurs, a second sample may be collected to verify the initial result or determine whether the result was an outlier. If resampling is performed and the initial finding is not verified, the resampled value replaces the initial finding. When the resample confirms the initial result, both values remain in the database and an SSI is declared. The following criteria were applied to the evaluation:

- Statistical analyses were not performed on analytes exhibiting 100 percent non-detects.
- When data contained less than 15 percent non-detects in background, simple substitution of one half the reporting limit was used in the statistical analysis. The reporting limit used for non-detects is the practical quantification limit reported by the laboratory.
- When data contained between 15 to 50 percent non-detects, the Kaplan-Meier non-detect adjustment was applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Non-parametric prediction limits were used on data containing greater than 50 percent non-detects.

4.1.2 Appendix IV Assessment Monitoring Statistics

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data for the wells identified in **Table 1** for Appendix IV parameters with a target of 95 percent confidence and 95 percent coverage. When data contained greater than 50 percent non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits are were used. The confidence and coverage levels for non-parametric tolerance limits depend on the number of background samples. The background limits were then used when determining the Groundwater Protection Standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

As described in 40 CFR § 257.95(h)(1-3), the GWPS is:

- The maximum contaminant level (MCL) established under §§ 141.62 and 141.66;
- For the following constituents:
  - Cobalt 0.006 milligram per liter (mg/L)
  - Lead 0.015 mg/L
  - Lithium 0.040 mg/L
  - Molybdenum 0.100 mg/L
- The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

GWPS have been established for statistical comparison of Appendix IV constituents at AP-1. **Table 7** summarizes the background levels established at each monitoring well for the August 2024 and February 2025 sampling events along with the GWPS.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS. A well/constituent pair was considered to exceed its respective standard only when the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, an SSL exceedance was identified.

4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the site was performed to determine whether constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine whether concentrations statistically exceed the established GWPS. Analytical data from the August 2024 and February 2025 events were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats Consulting 2019).

4.2.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix C**, Appendix III constituent concentrations have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A table summarizing these constituents and wells is provided in **Appendix C**.

4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the August 2024 and February 2025 Appendix IV data at AP-1 was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No Statistically Significant Levels (SSLs) were identified.

5 Monitoring Program Status

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in November 2019. No statistical exceedance of a GWPS for Appendix IV parameters has been identified. Pursuant to 40 CFR § 257.96(b), groundwater will continue to be monitored at AP-1 in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 due to SSIs for Appendix III parameters.

6 Conclusions and Future Actions

This 2025 Annual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's CCR Rule 40 CFR § 257.95 and GAEPD Rule 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for the site identified no exceedance of a GWPS for an Appendix IV constituent.

The next assessment monitoring event is scheduled for August 2025. This monitoring event will include sampling and analysis of all Appendix III and IV constituents.

7 References

ACC. 2019 *First Semiannual Groundwater Monitoring and Corrective Action Report*. Prepared for Georgia Environmental Protection Division. July 2019.

ACC. 2021 *Hydrogeologic Assessment Report – Part B: Supporting Documents (rev. 3) Ash Pond 1 Closure Permit Application.* September.

Driscoll, F.G. 1986. *Groundwater and Wells*, Johnson Screens, Saint Paul, Minnesota, 1089 pp.

Freeze, R.A. and Cherry, J.A. 1979. *Groundwater*, Prentice-Hall, Englewood Cliffs, New Jersey, 604 pp.

Georgia Environmental Protection Division (GAEPD). 2017. Groundwater Alternative Source Demonstration. Coweta County- Plant Yates Industrial Landfill Permit No. 038-104D(Ll). September 15.

Groundwater Stats Consulting, LLC. 2019. *Statistical Analysis Plan – Plant Yates Ash Pond 1*. Prepared for Georgia Environmental Protection Division.

Newell, C.J., L.P. Hopkins, and P.B. Bedient. 1990. A Hydrogeologic Database for Ground-Water Modeling. *Ground Water. 28(5)*:703-714.

USEPA. 1989. RCRA Facility Investigation (RFI) Guidance, Interim Final, Vol I. [EPA 530/SW-89-031], OWSER Directive 9502.00-6D.

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.

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

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

Tables

Table 1
Monitoring Network Well Summary
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-1

Well ID	Well Designation	Location	Northing	Easting	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Total Well Depth (ft bTOC)	Groundwater Zone Screened	Installation Date
YGWA-4I	Detection	Upgradient	1254436.68	2075455.62	781.9	784.21	745.70	735.70	48.81	PWR/Transition Zone	5/21/2014
YGWA-5I	Detection	Upgradient	1254399.95	2076218.86	782.1	784.54	735.90	725.90	58.94	PWR/Transition Zone	5/21/2014
YGWA-5D	Detection	Upgradient	1254396.67	2076223.63	781.9	784.53	705.70	655.70	129.13	Deep Bedrock	5/21/2014
YGWA-17S	Detection	Upgradient	1257602.79	2076758.31	780.2	783.05	753.20	743.20	39.85	Saprolite	9/10/2015
YGWA-18S	Detection	Upgradient	1257116.05	2077015.25	787.6	790.57	760.90	750.90	39.97	Saprolite	9/8/2015
YGWA-18I	Detection	Upgradient	1257090.05	2077015.82	787.9	790.57	720.90	710.90	79.97	PWR/Transition Zone	9/8/2015
YGWA-20S	Detection	Upgradient	1255531.55	2077410.37	764.6	767.12	747.90	737.90	29.52	Saprolite	9/29/2015
YGWA-21I	Detection	Upgradient	1255538.27	2076768.14	780.8	783.70	714.10	704.10	79.90	PWR/Transition Zone	9/28/2015
YGWA-39	Detection	Upgradient	1255717.13	2073865.58	815.6	818.19	760.10	750.10	68.59	Upper Fractured Bedrock	7/7/2016
YGWA-40	Detection	Upgradient	1255791.95	2073431.34	813.5	815.73	778.00	768.00	48.23	Upper Fractured Bedrock	7/7/2016
YGWA-1I	Detection	Upgradient	1256876.13	2070097.91	834.3	836.60	793.30	783.30	53.60	PWR/Transition Zone	5/20/2014
YGWA-1D	Detection	Upgradient	1256867.34	2070104.61	834.9	837.25	759.20	709.20	128.85	Deep Bedrock	5/20/2014
YGWA-2I	Detection	Upgradient	1256144.08	2070790.49	864.0	866.25	812.80	802.80	63.75	PWR/Transition Zone	5/20/2014
YGWA-3I	Detection	Upgradient	1256405.2	2072024.2	794.0	796.55	747.70	737.70	59.05	PWR/Transition Zone	5/20/2014
YGWA-3D	Detection	Upgradient	1256399.94	2072026.21	794.1	796.78	712.90	662.90	134.18	Deep Bedrock	5/20/2014
YGWA-14S	Detection	Upgradient	1257828.64	2072537.24	746.8	748.76	724.10	714.10	34.96	Saprolite	5/20/2014
YGWA-30I	Detection	Upgradient	1258421.86	2071107.11	760.1	762.58	713.40	703.40	59.48	PWR/Transition Zone	9/23/2015
YGWA-47	Detection	Upgradient	1262411.84	2071818.05	755.6	758.22	709.60	699.60	59.12	Bedrock	7/11/2016
GWA-2 [1]	Detection	Upgradient	1261383.11	2073509.98	803.1	805.62	763.80	753.80	52.02	Bedrock	4/12/2007
YGWC-44	Detection	Downgradient	1261874.34	2071219.39	755.5	758.35	677.15	667.15	88.65	Bedrock	7/13/2016
YGWC-45	Detection	Downgradient	1261668.95	2070912.6	716.5	719.36	653.64	643.64	73.16	Bedrock	7/10/2016
YGWC-46A	Detection	Downgradient	1260994.59	2070970.3	730.1	733.04	669.31	659.31	70.79	PWR/Transition Zone	6/1/2020
YGWC-52	Detection	Downgradient	1262145.22	2071464.36	752.9	755.86	683.68	673.68	79.52	PWR/Transition Zone	5/28/2020
PZ-09I	Piezometer	Downgradient	1261995.81	2070720.09	709.8	712.13	640.77	630.77	79.33	PWR/Transition Zone	05/19/2014
PZ-09S	Piezometer	Downgradient	1262003.49	2070720.43	709.8	712.08	660.82	650.82	59.28	Saprolite	05/19/2014
PZ-10I	Piezometer	Downgradient	1260809.64	2070551.98	687.8	700.25	649.15	639.15	48.95	PWR/Transition Zone	05/19/2014
PZ-10S	Piezometer	Downgradient	1260802.29	2070552.32	698.1	700.43	689.77	679.77	18.63	Saprolite	05/19/2014
PZ-53	Piezometer	Downgradient	1260964.5	2070920.38	720.9	732.90	659.19	649.19	72.00	Bedrock	11/18/2019

Notes:
Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988).

Northing and Easting Georgia State Plane West, NAD83

[1] GWA-2 was not sampled during this reporting period. GWA-2 was abandoned on January 7, 2025. The historical data will continue to be managed with the sitewide background dataset.

Acronyms and Abbreviations:
bTOC = below top of casing

ft = feet

PWR = Partially Weathered Rock

Table 2
Groundwater Sampling Event Summary
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates AP-1

Well ID	Hydraulic Location	Semiannual Assessment [1]	
		August 2024	February 2025
YGWA-47	Upgradient	X	X
YGWA-4I	Upgradient [2]	X	X
YGWA-5I	Upgradient [2]	X	X
YGWA-5D	Upgradient [2]	X	X
YGWA-17S	Upgradient [2]	X	X
YGWA-18S	Upgradient [2]	X	X
YGWA-18I	Upgradient [2]	X	X
YGWA-20S	Upgradient [2]	X	X
YGWA-21I	Upgradient [2]	X	X
YGWA-39	Upgradient [2]	X	X
YGWA-40	Upgradient [2]	X	X
YGWA-1I	Upgradient [2]	X	X
YGWA-1D	Upgradient [2]	X	X
YGWA-2I	Upgradient [2]	X	X
YGWA-3I	Upgradient [2]	X	X
YGWA-3D	Upgradient [2]	X	X
YGWA-14S	Upgradient [2]	X	X
YGWA-30I	Upgradient [2]	X	X
YGWC-44	Downgradient	X	X
YGWC-45	Downgradient	X	X
YGWC-46A	Downgradient	X	X
YGWC-52	Downgradient	X	X

Notes
1. All wells analyzed for Appendix III and Appendix IV.
2. Pooled upgradient wells

Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III
Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

Table 3
Groundwater Monitoring Parameters
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates AP-1

40 CFR 257 Appendix III	40 CFR 257 Appendix IV
Boron	Antimony
Calcium	Arsenic
Chloride	Barium
Fluoride	Beryllium
pH	Cadmium
Sulfate	Chromium
Total Dissolved Solids	Cobalt
	Fluoride
	Lead
	Lithium
	Mercury
	Molybdenum
	Combined Radium - 226/228
	Selenium
	Thallium

Notes:
CFR - Code of Federal Regulations

Table 4
Summary of Groundwater Elevations
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates AP-1

Well ID	Dated Measured	TOC (ft)	Depth-to-Water (ft bTOC)	Groundwater Elevation (ft)
Downgradient Wells - August 2024				
YGWC-44	8/19/2024	758.35	50.54	707.81
YGWC-45	8/19/2024	719.36	22.97	696.39
YGWC-46A	8/19/2024	733.04	39.97	693.07
YGWC-52	8/19/2024	755.86	38.34	717.52
PZ-09S	8/19/2024	712.08	19.94	692.14
PZ-09I	8/19/2024	712.13	20.19	691.94
PZ-10S	8/19/2024	700.43	8.64	691.79
PZ-10I	8/19/2024	700.25	13.33	686.92
PZ-53	8/19/2024	732.90	39.86	693.04
Upgradient Wells - August 2024				
YGWA-4I	8/19/2024	784.21	24.73	759.48
YGWA-5I	8/19/2024	784.54	20.48	764.06
YGWA-5D	8/19/2024	784.53	20.47	764.06
YGWA-17S	8/19/2024	783.05	13.55	769.50
YGWA-18S	8/19/2024	790.57	21.67	768.90
YGWA-18I	8/19/2024	790.57	24.75	765.82
YGWA-20S	8/19/2024	767.12	11.80	755.32
YGWA-21I	8/19/2024	783.70	31.88	751.82
YGWA-39	8/19/2024	818.19	19.63	798.56
YGWA-40	8/19/2024	815.73	24.92	790.81
YGWA-1I	8/19/2024	836.60	38.46	798.14
YGWA-1D	8/19/2024	837.25	50.88	786.37
YGWA-2I	8/19/2024	866.25	45.81	820.44
YGWA-3I	8/19/2024	796.55	53.09	743.46
YGWA-3D	8/19/2024	796.78	33.15	763.63
YGWA-14S	8/19/2024	748.76	17.10	731.66
YGWA-30I	8/19/2024	762.58	43.27	719.31
YGWA-47	8/19/2024	758.22	34.93	723.29

Table 4
Summary of Groundwater Elevations
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates AP-1

Well ID	Dated Measured	TOC (ft)	Depth-to-Water (ft bTOC)	Groundwater Elevation (ft)
Downgradient Wells - February 2025				
YGWC-44	2/24/2025	758.35	50.68	707.67
YGWC-45	2/24/2025	719.36	22.13	697.23
YGWC-46A	2/24/2025	733.04	37.85	695.19
YGWC-52	2/24/2025	755.86	38.50	717.36
PZ-09S	2/24/2025	712.08	16.81	695.27
PZ-09I	2/24/2025	712.13	16.99	695.14
PZ-10S	2/24/2025	700.43	6.60	693.83
PZ-10I	2/24/2025	700.25	11.25	689.00
PZ-53	2/24/2025	732.90	37.73	695.17
Upgradient Wells - February 2025				
YGWA-4I	2/24/2025	784.21	24.32	759.89
YGWA-5I	2/24/2025	784.54	19.97	764.57
YGWA-5D	2/24/2025	784.53	20.46	764.07
YGWA-17S	2/24/2025	783.05	12.19	770.86
YGWA-18S	2/24/2025	790.57	21.32	769.25
YGWA-18I	2/24/2025	790.57	24.30	766.27
YGWA-20S	2/24/2025	767.12	11.42	755.70
YGWA-21I	2/24/2025	783.70	31.70	752.00
YGWA-39	2/24/2025	818.19	20.88	797.31
YGWA-40	2/24/2025	815.73	24.86	790.87
YGWA-1I	2/24/2025	836.60	39.09	797.51
YGWA-1D	2/24/2025	837.25	50.35	786.90
YGWA-2I	2/24/2025	866.25	46.68	819.57
YGWA-3I	2/24/2025	796.55	52.34	744.21
YGWA-3D	2/24/2025	796.78	5.16	791.62
YGWA-14S	2/24/2025	748.76	15.91	732.85
YGWA-30I	2/24/2025	762.58	42.97	719.61
YGWA-47	2/24/2025	758.22	35.60	722.62

Notes

Elevation in U.S. Survey Feet (NAVD88)

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

NM - not measured

TOC = top of casing

Table 5
Groundwater Flow Velocity Calculations
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-1

ARCADIS

Equation

$$V = \frac{K\,(dh/dl)}{n_e}$$

where:

V = groundwater velocity
K = hydraulic conductivity
dh/dl = i = hydraulic gradient
n_e = effective porosity

Values Used in Calculation

Value			Source
K:	3.70E-03	cm/sec	See note 1
	10.5	ft/day	
i =	0.023	unitless	Hydraulic gradient from: YGWA-47 to YGWC-45 (Aug. 2024) Distance (ft): 1172 Elevations (ft): YGWA-47: 723.29 YGWC-45: 696.39
i =	0.022	unitless	YGWA-47 to YGWC-45 (Feb. 2025) Distance (ft): 1172 Elevations (ft): YGWA-47: 722.62 YGWC-45: 697.23
n_e =	0.20	unitless	See note 2

Average Linear Velocity

Aug. 2024

$$V = \frac{(10.5)\,(0.023)}{0.20}$$

V = 1.2 ft/day, or 438 ft/year

Feb. 2025

$$V = \frac{(10.5)\,(0.022)}{0.20}$$

V = 1.2 ft/day, or 438 ft/year

Notes

1. Slug tests performed by Atlantic Coast Consulting, Inc. in 2017 (ACC 2021).
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989).

Table 6a
Groundwater Analytical Data - August 2024 and February 2025
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates AP-1

Analyte Name	Units	YGWC-44 8/21/2024	YGWC-44 2/26/2025	YGWC-45 8/21/2024	YGWC-45 2/26/2025	YGWC-46A 8/21/2024	YGWC-46A 2/26/2025	YGWC-52 8/21/2024	YGWC-52 2/26/2025
Appendix III									
pH	SU	5.80	5.78	6.54	6.63	7.41	6.85	6.01	5.97
Boron	mg/L	0.49	0.56	0.31	0.36 J	2.2	2.8	< 0.012	< 0.0062
Calcium	mg/L	32.8	30.1	58.3	55.4	124	132	37.6	32.3
Chloride	mg/L	13.3	11.7	6.5	6.4	39.6	35.2	3	2.6
Fluoride	mg/L	< 0.050	< 0.050	0.077 J	0.069 J	0.1	0.075 J	< 0.050	< 0.050
Sulfate	mg/L	121	112	166	161	518	463	87.1	86.6
Total Dissolved Solids	mg/L	320	309	442	456	1060	1030	232	205
Appendix IV									
Antimony	mg/L	< 0.00054	< 0.00050	< 0.00054	< 0.00050	< 0.00054	< 0.00050	< 0.00054	< 0.00050
Arsenic	mg/L	0.0043 J	< 0.0012	< 0.00084	< 0.0012	0.0020 J	< 0.0012	< 0.00084	< 0.0012
Barium	mg/L	0.069	0.068	0.054	0.051	0.048	0.046	0.018	0.018
Beryllium	mg/L	< 0.000094	< 0.00015	< 0.000094	< 0.00015	< 0.000094	< 0.00015	< 0.000094	< 0.00015
Cadmium	mg/L	< 0.00010	< 0.00012	< 0.00010	< 0.00012	< 0.00010	< 0.00012	< 0.00010	< 0.00012
Chromium	mg/L	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012
Cobalt	mg/L	0.0010 J	0.0013 J	0.00053 J	< 0.0012	0.00078 J	< 0.0012	0.00054 J	< 0.0012
Fluoride	mg/L	< 0.050	< 0.050	0.077 J	0.069 J	0.1	0.075 J	< 0.050	< 0.050
Lead	mg/L	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025
Lithium	mg/L	0.011 J	0.00393 J	0.011 J	0.0140 J	0.011 J	0.0178 J	0.0034 J	0.00364 J
Mercury	mg/L	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012
Molybdenum	mg/L	< 0.00062	< 0.0025	0.0010 J	< 0.0025	0.0038 J	< 0.0025	< 0.00062	< 0.0025
Combined Radium - 226/228	pCi/L	0.411 U	1.10 U	1.29	1.49	1.87	3.69	0.862 U	0.841 U
Selenium	mg/L	< 0.00096	< 0.0012	< 0.00096	< 0.0012	< 0.00096	< 0.0012	< 0.00096	< 0.0012
Thallium	mg/L	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	< 0.00015
Other Parameters									
Alkalinity	mg/L as $CaCO_3$	NM	66.7	NM	114	NM	98.2	NM	46
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NM	66.7	NM	114	NM	98.2	NM	46
Alkalinity, Carbonate	mg/L as $CaCO_3$	NM	< 5.0	NM	< 5.0	NM	< 5.0	NM	< 5.0
Magnesium	mg/L	NM	25.1	NM	29.6	NM	72.7	NM	8.2
Potassium	mg/L	NM	3.6	NM	8	NM	8.9	NM	1.6
Sodium	mg/L	NM	15.8	NM	18.9	NM	43.6	NM	10.9

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

Acronyms and Abbreviations:
< = Analyte was not detected above the laboratory method detection limit (MDL)

J: Estimated concentration above the method detection limit and below the reporting limit.

U = the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6b
Upgradient Groundwater Analytical Data - August 2024 and February 2025
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-1

Analyte	Units	YGWA-1I 8/20/2024	YGWA-1I 2/25/2025	YGWA-1D 8/20/2024	YGWA-1D 2/25/2025	YGWA-2I 8/20/2024	YGWA-2I 2/25/2025	YGWA-3I 8/20/2024	YGWA-3I 2/25/2025	YGWA-3D 8/20/2024	YGWA-3D 2/25/2025
Appendix III											
pH	SU	5.77	6.02	7.18	7.18	6.91	7.14	7.45	7.55	7.59	7.79
Boron	mg/L	< 0.012	< 0.0062	< 0.012	< 0.0062	< 0.012	< 0.0062	< 0.012	< 0.0062	< 0.012	< 0.0062
Calcium	mg/L	1.9	1.8	17.7	16.4	30.4	27.3	23.4	21.2	30	27.9
Chloride	mg/L	1.3	1.1	1	0.90 J	0.91 J	0.77 J	1	0.90 J	1.1	0.94 J
Fluoride	mg/L	< 0.050	0.060 J	0.066 J	0.094 J	0.085 J	0.12	0.12	0.14	0.45	0.45
Sulfate	mg/L	4.9	3.5	12.2	10.4	21.3	13.8	13.7	10.9	7.7	6.7
Total Dissolved Solids	mg/L	67	47	140	121	184	156	179	136	164	147
Appendix IV											
Antimony	mg/L	< 0.00054	< 0.00050	0.00088 J	< 0.00050	< 0.00054	< 0.00050	< 0.00054	< 0.00050	< 0.00054	0.00072 J
Arsenic	mg/L	< 0.00084	< 0.0012	0.00099 J	0.0016 J	< 0.00084	< 0.0012	< 0.00084	< 0.0012	< 0.00084	< 0.0012
Barium	mg/L	0.0072	0.0083	0.0061	0.0071	0.0033 J	0.0037 J	0.0027 J	0.0036 J	0.0044 J	0.0059
Beryllium	mg/L	< 0.000094	< 0.00015	< 0.000094	< 0.00015	< 0.000094	< 0.00015	< 0.000094	< 0.00015	< 0.000094	< 0.00015
Cadmium	mg/L	< 0.00010	< 0.00012	< 0.00010	< 0.00012	< 0.00010	< 0.00012	< 0.00010	0.00046 J	< 0.00010	0.00051
Chromium	mg/L	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012
Cobalt	mg/L	0.00033 J	0.0014 J	< 0.00032	< 0.0012	< 0.00032	< 0.0012	< 0.00032	< 0.0012	< 0.00032	< 0.0012
Lead	mg/L	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025
Fluoride	mg/L	< 0.050	0.060 J	0.066 J	0.094 J	0.085 J	0.12	0.12	0.14	0.45	0.45
Lithium	mg/L	0.0023 J	0.00270 J	0.0037 J	0.00366 J	< 0.0016	0.00111 J	0.017 J	0.0168 J	0.021 J	0.0219 J
Mercury	mg/L	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012
Molybdenum	mg/L	0.0039 J	0.0032 J	0.010	0.010	0.011	0.0069 J	0.0058 J	0.0086 J	0.012	0.017
Combined Radium - 226/228	pCi/L	0.650 U	0.978 U	0.460 U	1.24	0.0912 U	0.123 U	0.921 U	1.46	3.09	3.04
Selenium	mg/L	< 0.00096	< 0.0012	< 0.00096	< 0.0012	< 0.00096	< 0.0012	< 0.00096	< 0.0012	< 0.00096	< 0.0012
Thallium	mg/L	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	0.00053 J	< 0.00038	0.00043 J
Other Parameters											
Alkalinity	mg/L as $CaCO_3$	NM	15.0	NM	65.2	NM	99.8	NM	89.6	NM	103
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NM	15.0	NM	65.2	NM	99.8	NM	89.6	NM	103
Alkalinity, Carbonate	mg/L as $CaCO_3$	NM	< 5.0	NM	< 5.0	NM	< 5.0	NM	< 5.0	NM	< 5.0
Magnesium	mg/L	NM	1.4	NM	1.9	NM	4.1	NM	5.3	NM	3.7
Potassium	mg/L	NM	2.0	NM	4.7	NM	5.0	NM	5.0	NM	3.6
Sodium	mg/L	NM	4.8	NM	11.8	NM	8.9	NM	8.8	NM	9.7

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

Acronyms and Abbreviations:
mg/L = milligrams per liter

pCi/L = picoCuries per liter

< = Analyte was not detected above the laboratory method detection limit (MDL)

J = Estimated concentration above the method detection limit and below the reporting limit.

U = the substance was detected below the Minimum Detection Concentration (MDC)
and the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6b
Upgradient Groundwater Analytical Data - August 2024 and February 2025
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-1

Analyte	Units	YGWA-4I 8/20/2024	YGWA-4I 2/25/2025	YGWA-5I 8/20/2024	YGWA-5I 2/25/2025	YGWA-5D 8/20/2024	YGWA-5D 2/25/2025	YGWA-14S 8/20/2024	YGWA-14S 2/25/2025	YGWA-17S 8/20/2024	YGWA-17S 2/25/2025
Appendix III											
pH	SU	6.03	5.98	5.58	5.77	7.3	7.4	5.49	5.16	5.45	5.59
Boron	mg/L	< 0.012	< 0.0062	< 0.012	< 0.0062	< 0.012	0.0078 J	0.014 J	0.018 J	< 0.012	0.0093 J
Calcium	mg/L	9.1	8.1	3.2	2.8	29.1	25.9	1.3	1.3	3.5	3
Chloride	mg/L	5.2	4.5	4.8	4.4	3.4	2.8	4.5	4.1	12.7	11.4
Fluoride	mg/L	< 0.050	0.061 J	< 0.050	< 0.050	0.058 J	0.082 J	< 0.050	0.052 J	< 0.050	< 0.050
Sulfate	mg/L	8.7	7.4	2.6	2.2	4.3	4.6	6	6.5	4.6	3.6
Total Dissolved Solids	mg/L	128	105	108	83	212	146	81	64	86	93
Appendix IV											
Antimony	mg/L	< 0.00054	< 0.00050	< 0.00054	< 0.00050	< 0.00054	< 0.00050	< 0.00054	< 0.00050	< 0.00054	< 0.00050
Arsenic	mg/L	< 0.00084	< 0.0012	< 0.00084	< 0.0012	0.0012 J	< 0.0012	< 0.00084	< 0.0012	< 0.00084	< 0.0012
Barium	mg/L	0.012	0.013	0.018	0.020	0.0066	0.0081	0.0075	0.0084	0.016	0.018
Beryllium	mg/L	< 0.000094	< 0.00015	< 0.000094	< 0.00015	< 0.000094	< 0.00015	0.00021 J	0.00020 J	0.00010 J	< 0.00015
Cadmium	mg/L	0.00019 J	< 0.00012	< 0.00010	< 0.00012	< 0.00010	< 0.00012	< 0.00010	< 0.00012	< 0.00010	< 0.00012
Chromium	mg/L	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012
Cobalt	mg/L	< 0.00032	< 0.0012	< 0.00032	< 0.0012	< 0.00032	< 0.0012	< 0.00032	< 0.0012	< 0.00032	< 0.0012
Lead	mg/L	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025
Fluoride	mg/L	< 0.050	0.061 J	< 0.050	< 0.050	0.058 J	0.082 J	< 0.050	0.052 J	< 0.050	< 0.050
Lithium	mg/L	0.011 J	0.0125 J	0.0031 J	0.00364 J	0.0024 J	0.00582 J	< 0.0016	< 0.000600	< 0.0016	< 0.000600
Mercury	mg/L	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012
Molybdenum	mg/L	< 0.00062	< 0.0025	< 0.00062	< 0.0025	0.00074 J	< 0.0025	< 0.00062	< 0.0025	< 0.00062	< 0.0025
Combined Radium - 226/228	pCi/L	1.18	1.54	0.695 U	0.767 U	3.02	3.65	0.667 U	0.376 U	0.554 U	0.0768 U
Selenium	mg/L	< 0.00096	< 0.0012	< 0.00096	< 0.0012	< 0.00096	< 0.0012	0.0012 J	0.0014 J	< 0.00096	< 0.0012
Thallium	mg/L	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	< 0.00015
Other Parameters											
Alkalinity	mg/L as $CaCO_3$	NM	48.3	NM	25.4	NM	102	NM	9.9	NM	14.3
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NM	48.3	NM	25.4	NM	102	NM	9.9	NM	14.3
Alkalinity, Carbonate	mg/L as $CaCO_3$	NM	< 5.0	NM	< 5.0	NM	< 5.0	NM	< 5.0	NM	< 5.0
Magnesium	mg/L	NM	4.7	NM	2.7	NM	4.4	NM	1.4	NM	1.0
Potassium	mg/L	NM	3.6	NM	1.6	NM	3.6	NM	0.76	NM	0.41 J
Sodium	mg/L	NM	10.1	NM	11.0	NM	9.2	NM	8.9	NM	15.0

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

Acronyms and Abbreviations:
mg/L = milligrams per liter

pCi/L = picoCuries per liter

< = Analyte was not detected above the laboratory method detection limit (MDL)

J = Estimated concentration above the method detection limit and below the reporting li

U = the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6b
Upgradient Groundwater Analytical Data - August 2024 and February 2025
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-1

Analyte	Units	YGWA-18I 8/20/2024	YGWA-18I 2/25/2025	YGWA-18S 8/21/2024	YGWA-18S 2/25/2025	YGWA-20S 8/20/2024	YGWA-20S 2/25/2025	YGWA-21I 8/20/2024	YGWA-21I 2/25/2025	YGWA-30I 8/20/2024	YGWA-30I 2/25/2025
Appendix III											
pH	SU	5.74	6.00	5.42	6.26	6.00	6.07	6.6	6.55	6.07	5.45
Boron	mg/L	< 0.012	< 0.0062	< 0.012	< 0.0062	< 0.012	< 0.0062	< 0.012	0.0066 J	< 0.012	< 0.0062
Calcium	mg/L	5.9	5.3	0.96 J	0.88 J	2.8	2.6	6.9	6	1.4	1.4
Chloride	mg/L	7.8	7	7.4	6.5	3	2.6	2.3	2	1.4	1.3
Fluoride	mg/L	< 0.050	< 0.050	0.051 J	< 0.050	< 0.050	< 0.050	0.062 J	0.088 J	< 0.050	0.062 J
Sulfate	mg/L	0.74 J	< 0.50	1.1	0.59 J	< 0.50	< 0.50	4	3.3	0.74 J	0.74 J
Total Dissolved Solids	mg/L	128	110	79	69	75	69	143	110	69	51
Appendix IV											
Antimony	mg/L	< 0.00054	< 0.00050	< 0.00054	< 0.00050	< 0.00054	< 0.00050	< 0.00054	0.00054 J	< 0.00054	< 0.00050
Arsenic	mg/L	< 0.00084	< 0.0012	< 0.00084	< 0.0012	< 0.00084	< 0.0012	< 0.00084	< 0.0012	< 0.00084	< 0.0012
Barium	mg/L	0.019	0.021	0.015	0.014	0.012	0.015	0.0083	0.0077	0.0067	0.0076
Beryllium	mg/L	< 0.000094	< 0.00015	< 0.000094	< 0.00015	< 0.000094	< 0.00015	< 0.000094	< 0.00015	< 0.000094	< 0.00015
Cadmium	mg/L	< 0.00010	< 0.00012	< 0.00010	< 0.00012	< 0.00010	< 0.00012	< 0.00010	< 0.00012	< 0.00010	< 0.00012
Chromium	mg/L	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012
Cobalt	mg/L	< 0.00032	< 0.0012	< 0.00032	< 0.0012	< 0.00032	< 0.050	0.020	0.088 J	0.0023 J	0.0023 J
Lead	mg/L	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025
Fluoride	mg/L	< 0.050	< 0.050	0.051 J	< 0.050	< 0.050	< 0.050	0.062 J	0.088 J	< 0.050	0.062 J
Lithium	mg/L	0.0032 J	0.00373 J	0.0032 J	0.00129 J	< 0.0016	< 0.000600	0.0057 J	0.00670 J	< 0.0016	0.00127 J
Mercury	mg/L	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012
Molybdenum	mg/L	< 0.00062	< 0.0025	< 0.00062	< 0.0025	< 0.00062	< 0.0025	< 0.00062	< 0.0025	< 0.00062	< 0.0025
Combined Radium - 226/228	pCi/L	0.223 U	0.391 U	0.684 U	0.359 U	0.371 U	1.20 U	0.545 U	1.14 U	0.748 U	0.385 U
Selenium	mg/L	< 0.00096	< 0.0012	< 0.00096	< 0.0012	< 0.00096	< 0.0012	< 0.00096	< 0.0012	< 0.00096	< 0.0012
Thallium	mg/L	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	< 0.00015
Other Parameters											
Alkalinity	mg/L as $CaCO_3$	NM	35.3	NM	9.3	NM	25.9	NM	68.2	NM	15.5
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NM	35.3	NM	9.3	NM	25.9	NM	68.2	NM	15.5
Alkalinity, Carbonate	mg/L as $CaCO_3$	NM	< 5.0	NM	< 5.0	NM	< 5.0	NM	< 5.0	NM	< 5.0
Magnesium	mg/L	NM	3.0	NM	0.94	NM	0.60	NM	3.2	NM	0.94
Potassium	mg/L	NM	1.0	NM	0.52	NM	0.58	NM	3.0	NM	0.71
Sodium	mg/L	NM	12.2	NM	8.8	NM	9.4	NM	19.9	NM	6.0

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

Acronyms and Abbreviations:
mg/L = milligrams per liter

pCi/L = picoCuries per liter

< = Analyte was not detected above the laboratory method detection limit (MDL)

J = Estimated concentration above the method detection limit and below the reporting li

U = the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6b
Upgradient Groundwater Analytical Data - August 2024 and February 2025
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-1

Analyte	Units	YGWA-39 8/21/2024	YGWA-39 2/25/2025	YGWA-40 8/21/2024	YGWA-40 2/25/2025	YGWA-47 8/20/2024	YGWA-47 2/25/2025
Appendix III							
pH	SU	6.00	5.81	5.38	5.07	5.48	5.52
Boron	mg/L	0.13	0.13	0.061	0.061	< 0.012	0.014 J
Calcium	mg/L	19.7	17.3	6	4.8	10	9.9
Chloride	mg/L	4	3.5	5.4	4.5	3.6	3
Fluoride	mg/L	0.083 J	0.078 J	0.060 J	0.053 J	< 0.050	0.069 J
Sulfate	mg/L	6.6	6.5	18.2	15.4	53.9	48.3
Total Dissolved Solids	mg/L	235	228	94	86	155	147
Appendix IV							
Antimony	mg/L	< 0.00054	< 0.00050	< 0.00054	< 0.00050	< 0.00054	< 0.00050
Arsenic	mg/L	0.0027 J	< 0.0012	0.0014 J	< 0.0012	< 0.00084	< 0.0012
Barium	mg/L	0.030	0.031	0.033	0.031	0.031	0.033
Beryllium	mg/L	< 0.000094	< 0.00015	0.00023 J	0.00018 J	< 0.000094	< 0.00015
Cadmium	mg/L	< 0.00010	< 0.00012	< 0.00010	< 0.00012	< 0.00010	< 0.00012
Chromium	mg/L	< 0.0019	< 0.0012	< 0.0019	< 0.0012	< 0.0019	< 0.0012
Cobalt	mg/L	0.00048 J	< 0.0012	< 0.00032	< 0.0012	0.00034 J	< 0.0012
Lead	mg/L	< 0.00016	< 0.00025	< 0.00016	< 0.00025	< 0.00016	< 0.00025
Fluoride	mg/L	0.083 J	0.078 J	0.060 J	0.053 J	< 0.050	0.069 J
Lithium	mg/L	0.0055 J	0.00608 J	< 0.0016	0.000836 J	0.0036 J	0.00393 J
Mercury	mg/L	< 0.00013	< 0.00012	0.00033	0.00034	< 0.00013	< 0.00012
Molybdenum	mg/L	0.0068 J	0.0056 J	< 0.00062	< 0.0025	< 0.00062	< 0.0025
Combined Radium - 226/228	pCi/L	1.52	0.895 U	0.265 U	0.685 U	0.873 U	1.10 U
Selenium	mg/L	< 0.00096	< 0.0012	< 0.00096	< 0.0012	< 0.00096	< 0.0012
Thallium	mg/L	< 0.00038	< 0.00015	< 0.00038	< 0.00015	< 0.00038	< 0.00015
Other Parameters							
Alkalinity	mg/L as $CaCO_3$	NM	185	NM	22.5	NM	37.8
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NM	185	NM	22.5	NM	37.8
Alkalinity, Carbonate	mg/L as $CaCO_3$	NM	< 5.0	NM	< 5.0	NM	< 5.0
Magnesium	mg/L	NM	22.3	NM	2.8	NM	11.0
Potassium	mg/L	NM	6.0	NM	2.0	NM	3.9
Sodium	mg/L	NM	25.2	NM	9.7	NM	11.7

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

Acronyms and Abbreviations:
mg/L = milligrams per liter

pCi/L = picoCuries per liter

< = Analyte was not detected above the laboratory method detection limit (MDL)

J = Estimated concentration above the method detection limit and below the reporting li

U = the substance was detected below the Minimum Detection Concentration (MDC)
and the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 7
Background Levels and Groundwater Protection Standards
2025 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-1

Constituent	Units	Background [1]	GWPS
August 2024 and February 2025			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.21	2.0
Beryllium	mg/L	0.0011	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 [2]
Fluoride	mg/L	0.68	4.0
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.03	0.04
Mercury	mg/L	0.00064	0.002
Molybdenum	mg/L	0.030	0.100
Selenium	mg/L	0.005	0.05
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 [2]

Notes:

1. Site background: Tolerance limits calculated from pooled upgradient well data.

2. Background concentration is higher than the federally promulgated value (0.006 mg/L for Cobalt). Background is higher than radium MCL (5 mg/L). Therefore, background is the GWPS.

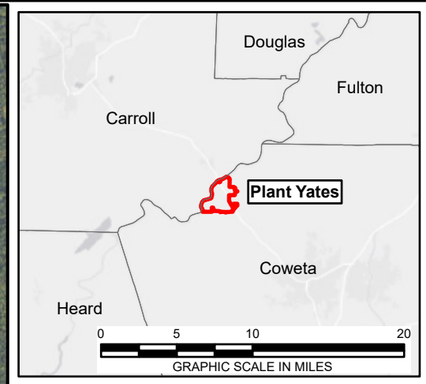
Acronyms and Abbreviations:

GWPS = Groundwater Protection Standard per 40 CFR §257.95(h).

mg/L = millgrams per liter

pCi/L = picocuries per liter

Figures



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: JANUARY 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 650 1,300 2,600
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

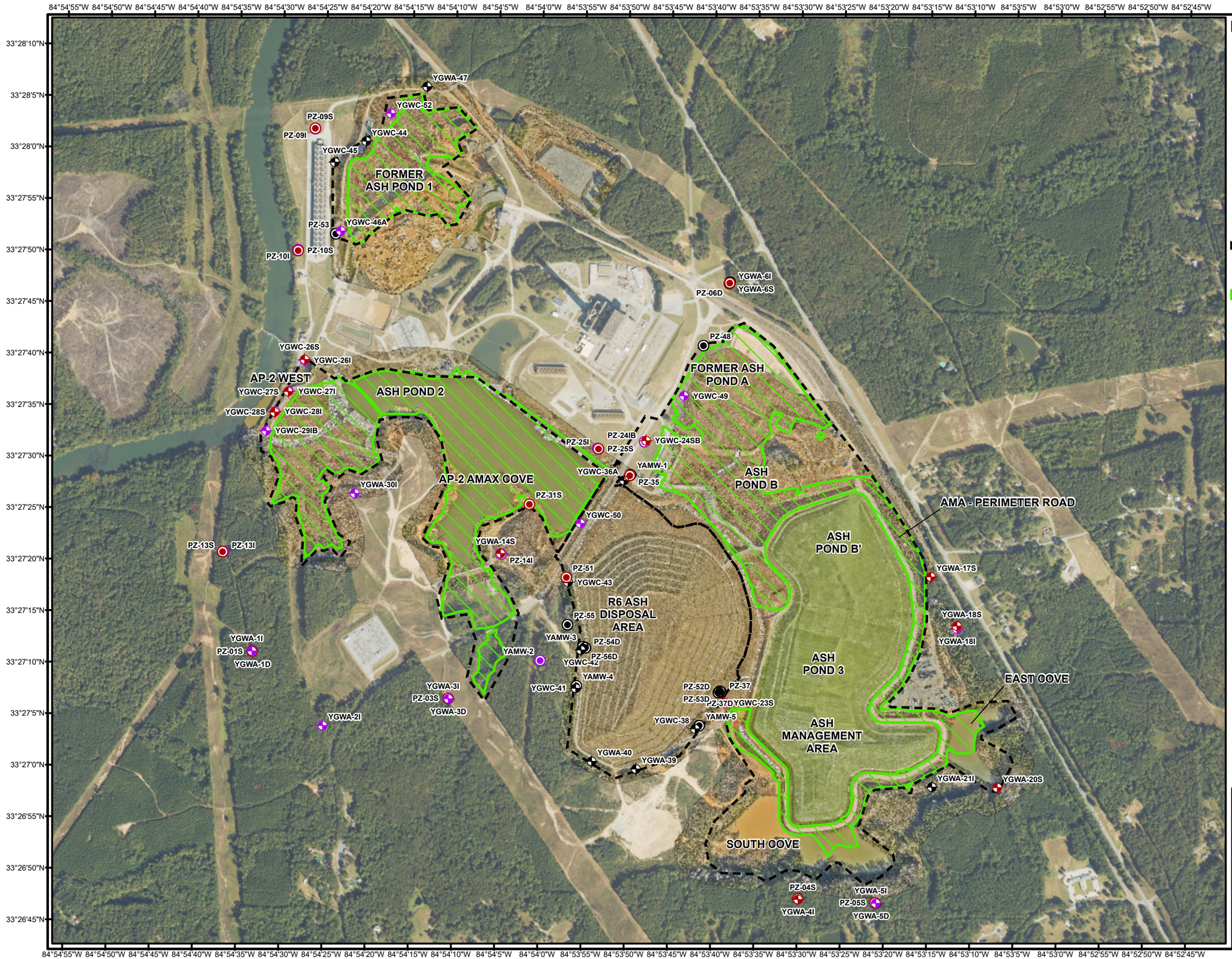
Georgia Power

PLANT YATES AP-1
NEWNAN, GA
2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1



LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 2/28/2024 FOR GYPSUM LANDFILL AND AP-1; 1/31/2024 FOR AP-2 AND AMA-R6

NOTE:
AERIAL IMAGE SOURCES: JANUARY 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-1
NEWNAN, GA
2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

ARCADIS

FIGURE
2

LEGEND

- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/ PIEZOMETER
- TRANSITION ASSESSMENT WELL/ PIEZOMETER
- BEDROCK ASSESSMENT WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: JANUARY 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 112.5 225 450

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-1
NEWNAN, GA

2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

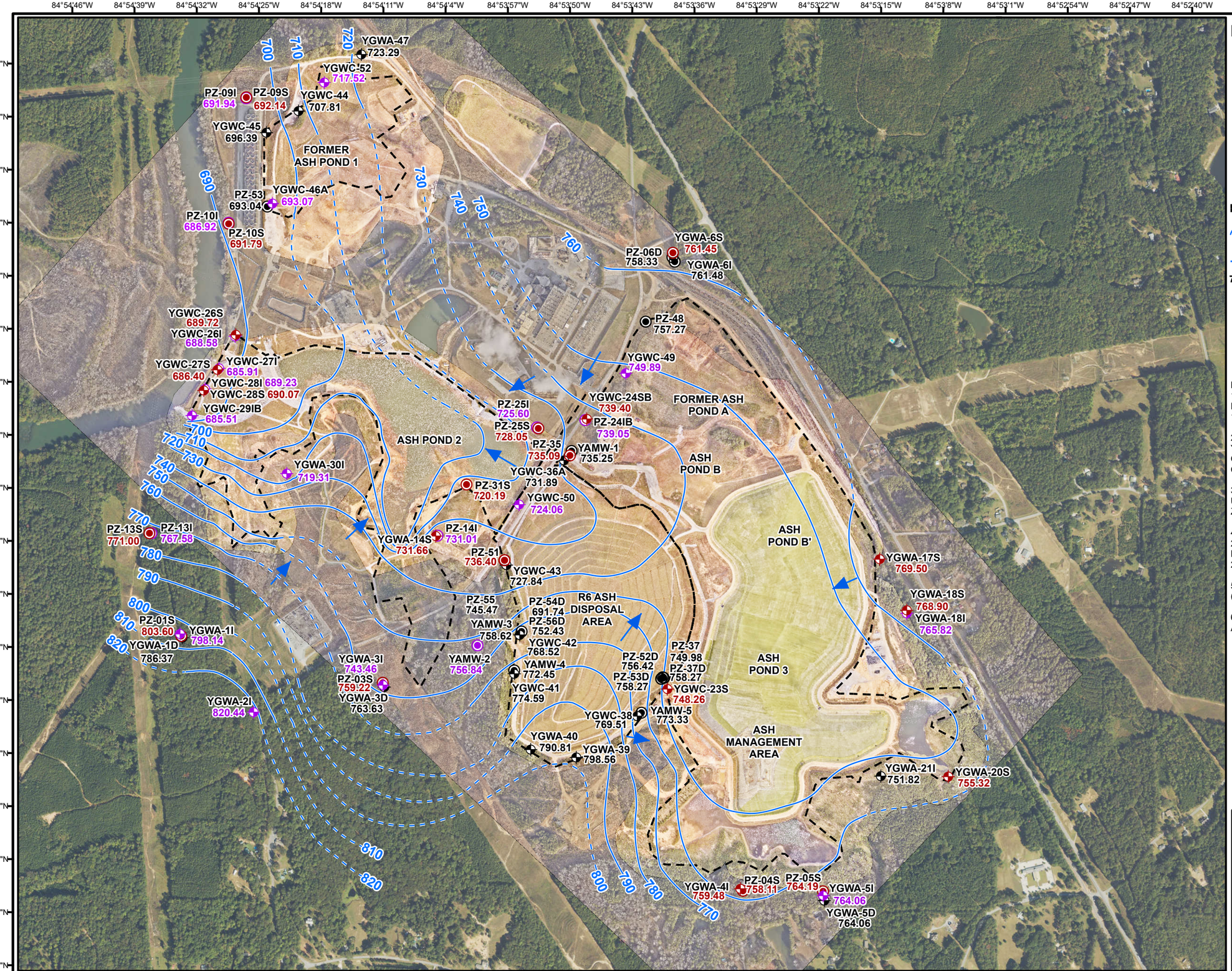
WELL LOCATION MAP

ARCADIS

FIGURE
3

84°54'46"W 84°54'39"W 84°54'32"W 84°54'25"W 84°54'18"W 84°54'11"W 84°54'4"W 84°53'57"W 84°53'50"W 84°53'43"W 84°53'36"W 84°53'29"W 84°53'22"W 84°53'15"W 84°53'8"W 84°53'1"W 84°52'54"W 84°52'47"W 84°52'40"W

33°28'5"N
33°28'0"N
33°27'55"N
33°27'50"N
33°27'45"N
33°27'40"N
33°27'35"N
33°27'30"N
33°27'25"N
33°27'20"N
33°27'15"N
33°27'10"N
33°27'5"N
33°27'0"N
33°26'55"N
33°26'50"N
33°26'45"N
33°26'40"N



LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/ PIEZOMETER
- TRANSITION NON-NETWORK WELL/ PIEZOMETER
- BEDROCK NON-NETWORK WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- FLOW LINE
- 757.11 GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER JOHN C. GEORGIOUS

NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWC-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.

3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.

4. AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

6. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 19, 2024.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-1
NEWNAN, GA
2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP AUGUST 2024

ARCADIS

FIGURE 4

84°54'46"W 84°54'39"W 84°54'32"W 84°54'25"W 84°54'18"W 84°54'11"W 84°54'4"W 84°53'57"W 84°53'50"W 84°53'43"W 84°53'36"W 84°53'29"W 84°53'22"W 84°53'15"W 84°53'8"W 84°53'1"W 84°52'54"W 84°52'47"W 84°52'40"W

33°28'5"N 33°28'0"N 33°27'55"N 33°27'50"N 33°27'45"N 33°27'40"N 33°27'35"N 33°27'30"N 33°27'25"N 33°27'20"N 33°27'15"N 33°27'10"N 33°27'5"N 33°27'0"N 33°26'55"N 33°26'50"N 33°26'45"N 33°26'40"N

YGWA-47 722.62
YGWC-52 717.36
PZ-09I 695.14
PZ-09S 695.27
YGWC-44 707.67
YGWC-45 697.23
FORMER ASH POND 1
PZ-53 695.17
YGWC-46A 695.19
PZ-10I 689.00
PZ-10S 693.83
YGWA-6S 761.51
PZ-06D 758.34
YGWA-6I 761.47
YGWC-26S 692.63
YGWC-26I 690.93
PZ-48 757.31
YGWC-27S 688.97
YGWC-27I 688.49
YGWC-49 749.58
YGWC-28I 691.16
YGWC-28S 691.72
YGWC-24SB 739.75
FORMER ASH POND A
YGWC-29IB 688.16
PZ-25I 727.16
PZ-24IB 740.20
PZ-25S 729.63
ASH POND 2
PZ-35 735.83
YAMW-1 736.35
YGWA-30I 719.61
YGWC-36A 732.63
ASH POND B
PZ-31S 722.21
YGWC-50 725.43
PZ-13S 770.63
PZ-13I 767.04
PZ-14I 731.92
YGWA-14S 732.85
PZ-51 736.90
YGWC-43 728.89
ASH POND B'
YGWA-17S 770.86
PZ-55 745.81
PZ-54D 730.17
R6 ASH DISPOSAL AREA
YGWA-18S 769.25
PZ-01S 802.76
YGWA-1I 797.51
YAMW-3 758.75
PZ-56D 752.58
YGWA-18I 766.27
YGWA-1D 786.90
YGWC-42 768.13
YAMW-2 758.24
PZ-37 749.70
PZ-52D 755.48
YGWA-3I 744.21
YAMW-4 771.81
PZ-37D 757.85
PZ-03S 757.57
PZ-53D 757.97
YGWC-41 773.61
YGWC-23S 748.11
ASH POND 3
YGWA-3D 791.62
YGWA-2I 819.57
YAMW-5 772.61
YGWC-38 768.29
ASH MANAGEMENT AREA
YGWA-40 790.87
YGWA-39 797.31
YGWA-21I 752.00
YGWA-20S 755.70
YGWA-4I 759.89
PZ-04S 758.44
PZ-05S 764.72
YGWA-5I 764.57
YGWA-5D 764.07

700 710 720 730 740 750 760 770 780 790 800 810 820

LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/ PIEZOMETER
- TRANSITION NON-NETWORK WELL/ PIEZOMETER
- BEDROCK NON-NETWORK WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- FLOW LINE
- **757.11** GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER

NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWC-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.

3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.

4. AERIAL IMAGE SOURCES: JANUARY 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 24, 2025.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-1
NEWNAN, GA
2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP FEBRUARY 2025

ARCADIS

FIGURE **5**

LEGEND

- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/ PIEZOMETER
- TRANSITION ASSESSMENT WELL/ PIEZOMETER
- BEDROCK ASSESSMENT WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- **708.94** GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER JOHN COURTNEY

NOTES:

1. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

2. AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 112.5 225 450

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-1
NEWNAN, GA

2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP AUGUST 2024

ARCADIS

FIGURE **6**

LEGEND

- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/ PIEZOMETER
- TRANSITION ASSESSMENT WELL/ PIEZOMETER
- BEDROCK ASSESSMENT WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- **708.94** GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER

NOTES:
1. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

2. JANUARY 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 112.5 225 450

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-1
NEWNAN, GA
2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2025

ARCADIS

FIGURE **7**

Appendix A

Laboratory Analytical and Data Validation Reports

August 2024

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92749160 and 92749165

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #55994R
Review Level: Tier II
Project: 30143607.3C

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92749160 and 92749165 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWC-44	92749160001 92749165001	Water	8/21/2024		X	X	X
YAT-YGWC-45	92749160002 92749165002	Water	8/21/2024		X	X	X
YAT-YGWC-46A	92749160003 92749165003	Water	8/21/2024		X	X	X
YAT-AP1-FD-1	92749160004 92749165004	Water	8/21/2024	YAT-YGWC-46A	X	X	X
YAT-YGWC-52	92749160005 92749165005	Water	8/22/2024		X	X	X
YAT-AP1-EB-1	92749160006 92749165006	Water	8/22/2024		X	X	X
YAT-AP1-FB-1	92749160007 92749165007	Water	8/22/2024		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Boron was detected in the associated QA blanks YAT-AP1-EB-1 and YAT-AP1-FB-1; however, the associated sample results were greater than the BAL or were non-detect. No qualification of the sample results was required.

Arsenic and boron were detected in the associated method blank (batch 878587); however, the associated sample results were non-detect. No qualification of the sample results was required.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

MS/MSD analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-46A / YAT-AP1-FD-1	Arsenic	0.0020 J	0.0026 J	AC
	Cobalt	0.00078 J	0.00079 J	
	Lithium	0.011 J	0.012 J	
	Molybdenum	0.0038 J	0.0033 J	
	Calcium	124	141	12.8%
	Barium	0.048	0.047	2.1%
	Boron	2.2	2.2	0.0%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-46A and field duplicate sample YAT-AP1-FD-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWC-52	TDS (EB)	Detected sample results >RL and <BAL	“J+” at detected sample concentration

Notes:
EB Equipment blank
RL Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis was performed using sample YAT-YGWC-46A in association with anions analysis. The concentrations of sulfate in the unspiked analysis was greater than four-times the spike concentration, hence, the MS/MSD sample results were not evaluated for this analyte.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed using sample YAT-YGWC-44 in association with TDS analysis exhibited an RPD within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-46A / YAT-AP1-FD-1	TDS	1,060	1,070	0.9%
	Chloride	39.6	39.2	1.0%
	Sulfate	518	512	1.2%
	Fluoride	0.10	0.10	AC

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-46A and field duplicate sample YAT-AP1-FD-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$Normalized\ \ absolute\ difference_{\ MethodBlank} = \frac{|\ Sample\ -\ Blank\ |}{\sqrt{(U_{Sample}\ )^2 + (U_{Blank}\ )^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

Note:
* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 and Radium-228 were detected in the method blanks, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

Laboratory duplicate analysis was not performed using a sample from this SDG.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWC-46A / AP-1-DUP-1	Radium-226	0.584 ± 0.228	0.730 ± 0.276	AC
	Radium-228	1.29 ± 0.495	1.44 ± 0.596	
	Total Radium	1.87 ± 0.723	2.17 ± 0.872	

Note:
AC = Acceptable

The differences in the results between the parent sample YGWC-46A and field duplicate sample AP-DUP-1 were acceptable.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results were qualified as “U” by the laboratory as applicable.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: September 27, 2024

PEER REVIEW: Dennis Capria

DATE: October 2, 2024

Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singelton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-1	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-52	WG	G			—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-44	WG	G	8/21/24	1010	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-45	WG	G	8/21/24	1338	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-46A	WG	G	8/21/24	1136	—	—		5		X	X	X	X	See Remarks	
YAT-AP1-FD-1	WG	G	8/21/24	—	—	—		5		X	X	X	X	See Remarks	
YAT-AP1-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AP1-FB-1	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	8/22/24 0730	Arcadis	8/22/24 0730
Arcadis	8/22/24 0925	Pace	8/22/24 0926
Pace	8/22/24 1215		8/22/24 1215

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singelton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.946.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-1		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [x] ET

County / State origin of sample(s): Georgia

Data Deliverables: [x] Level II [ ] Level III [ ] Level IV [x] EQUIS [ ] Other

Regulatory Program: (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-52	WG	G	8/22/24	0930	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-44	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-45	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-46A	WG	G						5		X	X	X	X	See Remarks	
YAT-AP1-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AP1-EB-1	WG	G	8/22/24	0955	—	—		5		X	X	X	X	See Remarks	
YAT-AP1-FB-1	WG	G	8/22/24	0940	—	—		5		X	X	X	X	See Remarks	

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ARCADIS	8/23/24 1130	/Arcadis	8/23/24 1130	
/Arcadis 1350	8/23/24 1350		8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92749160	YAT-YGWC-52	SM2540C	Total Dissolved Solids	274	mg/L	J+	Blank contamination
92749165	No qualifiers assigned						

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

J+ = estimated result with possible high bias

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 09, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-1
Pace Project No.: 92749160

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between August 22, 2024 and August 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-1
Pace Project No.: 92749160

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-1
Pace Project No.: 92749160

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92749160001	**YAT-YGWC-44**	Water	08/21/24 10:10	08/22/24 09:25
92749160002	**YAT-YGWC-45**	Water	08/21/24 13:38	08/22/24 09:25
92749160003	**YAT-YGWC-46A**	Water	08/21/24 11:36	08/22/24 09:25
92749160004	**YAT-AP1-FD-1**	Water	08/21/24 00:00	08/22/24 09:25
92749160005	**YAT-YGWC-52**	Water	08/22/24 09:30	08/23/24 13:50
92749160006	**YAT-AP1-EB-1**	Water	08/22/24 09:55	08/23/24 13:50
92749160007	**YAT-AP1-FB-1**	Water	08/22/24 09:40	08/23/24 13:50

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-1
Pace Project No.: 92749160

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92749160001	**YAT-YGWC-44**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749160002	**YAT-YGWC-45**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749160003	**YAT-YGWC-46A**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749160004	**YAT-AP1-FD-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749160005	**YAT-YGWC-52**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749160006	**YAT-AP1-EB-1**	EPA 6010D	AJM	1
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749160007	**YAT-AP1-FB-1**	EPA 6010D	AJM	1
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-1
Pace Project No.: 92749160

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749160001	**YAT-YGWC-44**					
EPA 6010D	Calcium	32.8	mg/L	1.0	08/26/24 11:52	
EPA 6020B	Arsenic	0.0043J	mg/L	0.0050	08/29/24 20:52	
EPA 6020B	Barium	0.069	mg/L	0.0050	08/29/24 20:52	
EPA 6020B	Boron	0.49	mg/L	0.040	08/29/24 20:52	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	08/29/24 20:52	
EPA 6020B	Lithium	0.011J	mg/L	0.030	08/29/24 20:52	
SM 2540C-2015	Total Dissolved Solids	320	mg/L	25.0	08/26/24 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	13.3	mg/L	1.0	08/23/24 12:11	
EPA 300.0 Rev 2.1 1993	Sulfate	121	mg/L	3.0	08/23/24 17:23	
92749160002	**YAT-YGWC-45**					
EPA 6010D	Calcium	58.3	mg/L	1.0	08/26/24 11:56	
EPA 6020B	Barium	0.054	mg/L	0.0050	08/29/24 20:56	
EPA 6020B	Boron	0.31	mg/L	0.040	08/29/24 20:56	
EPA 6020B	Cobalt	0.00053J	mg/L	0.0050	08/29/24 20:56	
EPA 6020B	Lithium	0.011J	mg/L	0.030	08/29/24 20:56	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	08/29/24 20:56	
SM 2540C-2015	Total Dissolved Solids	442	mg/L	25.0	08/26/24 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	6.5	mg/L	1.0	08/23/24 12:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.077J	mg/L	0.10	08/23/24 12:25	
EPA 300.0 Rev 2.1 1993	Sulfate	166	mg/L	4.0	08/23/24 17:37	
92749160003	**YAT-YGWC-46A**					
EPA 6010D	Calcium	124	mg/L	5.0	08/27/24 20:30	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	09/04/24 14:09	
EPA 6020B	Barium	0.048	mg/L	0.0050	08/29/24 21:07	
EPA 6020B	Boron	2.2	mg/L	0.040	08/29/24 21:07	
EPA 6020B	Cobalt	0.00078J	mg/L	0.0050	08/29/24 21:07	
EPA 6020B	Lithium	0.011J	mg/L	0.030	08/29/24 21:07	
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	08/29/24 21:07	
SM 2540C-2015	Total Dissolved Solids	1060	mg/L	25.0	08/26/24 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	39.6	mg/L	1.0	08/23/24 12:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	08/23/24 12:40	
EPA 300.0 Rev 2.1 1993	Sulfate	518	mg/L	12.0	08/23/24 17:51	M1
92749160004	**YAT-AP1-FD-1**					
EPA 6010D	Calcium	141	mg/L	1.0	08/26/24 12:02	
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	09/04/24 14:13	
EPA 6020B	Barium	0.047	mg/L	0.0050	08/29/24 21:11	
EPA 6020B	Boron	2.2	mg/L	0.040	08/29/24 21:11	
EPA 6020B	Cobalt	0.00079J	mg/L	0.0050	08/29/24 21:11	
EPA 6020B	Lithium	0.012J	mg/L	0.030	08/29/24 21:11	
EPA 6020B	Molybdenum	0.0033J	mg/L	0.010	08/29/24 21:11	
SM 2540C-2015	Total Dissolved Solids	1070	mg/L	25.0	08/26/24 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	39.2	mg/L	1.0	08/23/24 13:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	08/23/24 13:23	
EPA 300.0 Rev 2.1 1993	Sulfate	512	mg/L	12.0	08/23/24 18:34	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-1
Pace Project No.: 92749160

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749160005	**YAT-YGWC-52**					
EPA 6010D	Calcium	37.6	mg/L	1.0	08/28/24 20:31	
EPA 6020B	Barium	0.018	mg/L	0.0050	09/03/24 21:51	
EPA 6020B	Cobalt	0.00054J	mg/L	0.0050	09/03/24 21:51	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	09/03/24 21:51	
SM 2540C-2015	Total Dissolved Solids	232	mg/L	25.0	08/28/24 13:52	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	08/27/24 06:19	
EPA 300.0 Rev 2.1 1993	Sulfate	87.1	mg/L	2.0	08/27/24 17:33	
92749160006	**YAT-AP1-EB-1**					
EPA 6020B	Boron	0.025J	mg/L	0.040	09/03/24 21:58	B
SM 2540C-2015	Total Dissolved Solids	59.0	mg/L	25.0	08/28/24 13:55	
92749160007	**YAT-AP1-FB-1**					
EPA 6020B	Boron	0.023J	mg/L	0.040	09/03/24 22:02	B

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92749160

Sample: YAT-YGWC-44 **Lab ID: 92749160001** Collected: 08/21/24 10:10 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**32.8**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 11:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/29/24 20:52	7440-36-0	
Arsenic	**0.0043J**	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/29/24 20:52	7440-38-2	
Barium	**0.069**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/29/24 20:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/29/24 20:52	7440-41-7	
Boron	**0.49**	mg/L	0.040	0.012	1	08/23/24 15:48	08/29/24 20:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/29/24 20:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/29/24 20:52	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/29/24 20:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/29/24 20:52	7439-92-1	
Lithium	**0.011J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/29/24 20:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/29/24 20:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/29/24 20:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/29/24 20:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 13:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**320**	mg/L	25.0	25.0	1		08/26/24 13:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.3**	mg/L	1.0	0.60	1		08/23/24 12:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 12:11	16984-48-8	
Sulfate	**121**	mg/L	3.0	1.5	3		08/23/24 17:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92749160

Sample: YAT-YGWC-45 **Lab ID: 92749160002** Collected: 08/21/24 13:38 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**58.3**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 11:56	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/29/24 20:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	09/04/24 14:05	7440-38-2	
Barium	**0.054**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/29/24 20:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/29/24 20:56	7440-41-7	
Boron	**0.31**	mg/L	0.040	0.012	1	08/23/24 15:48	08/29/24 20:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/29/24 20:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/29/24 20:56	7440-47-3	
Cobalt	**0.00053J**	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/29/24 20:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/29/24 20:56	7439-92-1	
Lithium	**0.011J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/29/24 20:56	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/29/24 20:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/29/24 20:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/29/24 20:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 13:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**442**	mg/L	25.0	25.0	1		08/26/24 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.5**	mg/L	1.0	0.60	1		08/23/24 12:25	16887-00-6	
Fluoride	**0.077J**	mg/L	0.10	0.050	1		08/23/24 12:25	16984-48-8	
Sulfate	**166**	mg/L	4.0	2.0	4		08/23/24 17:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92749160

Sample: YAT-YGWC-46A **Lab ID: 92749160003** Collected: 08/21/24 11:36 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**124**	mg/L	5.0	0.61	5	08/24/24 12:03	08/27/24 20:30	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/29/24 21:07	7440-36-0	
Arsenic	**0.0020J**	mg/L	0.0050	0.00084	1	08/23/24 15:48	09/04/24 14:09	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/29/24 21:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/29/24 21:07	7440-41-7	
Boron	**2.2**	mg/L	0.040	0.012	1	08/23/24 15:48	08/29/24 21:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/29/24 21:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/29/24 21:07	7440-47-3	
Cobalt	**0.00078J**	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/29/24 21:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/29/24 21:07	7439-92-1	
Lithium	**0.011J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/29/24 21:07	7439-93-2	
Molybdenum	**0.0038J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/29/24 21:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/29/24 21:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/29/24 21:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 13:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1060**	mg/L	25.0	25.0	1		08/26/24 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**39.6**	mg/L	1.0	0.60	1		08/23/24 12:40	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		08/23/24 12:40	16984-48-8	
Sulfate	**518**	mg/L	12.0	6.0	12		08/23/24 17:51	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92749160

Sample: YAT-AP1-FD-1 **Lab ID: 92749160004** Collected: 08/21/24 00:00 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**141**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 12:02	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/29/24 21:11	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.00084	1	08/23/24 15:48	09/04/24 14:13	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/29/24 21:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/29/24 21:11	7440-41-7	
Boron	**2.2**	mg/L	0.040	0.012	1	08/23/24 15:48	08/29/24 21:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/29/24 21:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/29/24 21:11	7440-47-3	
Cobalt	**0.00079J**	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/29/24 21:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/29/24 21:11	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/29/24 21:11	7439-93-2	
Molybdenum	**0.0033J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/29/24 21:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/29/24 21:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/29/24 21:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 13:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1070**	mg/L	25.0	25.0	1		08/26/24 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**39.2**	mg/L	1.0	0.60	1		08/23/24 13:23	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		08/23/24 13:23	16984-48-8	
Sulfate	**512**	mg/L	12.0	6.0	12		08/23/24 18:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92749160

Sample: YAT-YGWC-52 **Lab ID: 92749160005** Collected: 08/22/24 09:30 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**37.6**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 20:31	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:51	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:51	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/27/24 14:36	09/05/24 17:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:51	7440-47-3	
Cobalt	**0.00054J**	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:51	7439-92-1	
Lithium	**0.0034J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**232**	mg/L	25.0	25.0	1		08/28/24 13:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.0**	mg/L	1.0	0.60	1		08/27/24 06:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 06:19	16984-48-8	
Sulfate	**87.1**	mg/L	2.0	1.0	2		08/27/24 17:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92749160

Sample: YAT-AP1-EB-1 **Lab ID: 92749160006** Collected: 08/22/24 09:55 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 20:35	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:58	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:58	7440-41-7	
Boron	**0.025J**	mg/L	0.040	0.012	1	08/27/24 14:36	09/03/24 21:58	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**59.0**	mg/L	25.0	25.0	1		08/28/24 13:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/27/24 00:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 00:51	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/27/24 00:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92749160

Sample: YAT-AP1-FB-1 **Lab ID: 92749160007** Collected: 08/22/24 09:40 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 20:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 22:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 22:02	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 22:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 22:02	7440-41-7	
Boron	**0.023J**	mg/L	0.040	0.012	1	08/27/24 14:36	09/03/24 22:02	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 22:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 22:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 22:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 22:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 22:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 22:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 22:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 22:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/28/24 13:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/27/24 01:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 01:06	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/27/24 01:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

QC Batch: 878069
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749160001, 92749160002, 92749160003, 92749160004

METHOD BLANK: 4523018 Matrix: Water
Associated Lab Samples: 92749160001, 92749160002, 92749160003, 92749160004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/24 10:35	

LABORATORY CONTROL SAMPLE: 4523019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523020 4523021

Parameter	Units	92749074006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	21500 ug/L	1	1	23.8	22.3	230	73	75-125	7	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

QC Batch: 878921
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749160005, 92749160006, 92749160007

METHOD BLANK: 4526909 Matrix: Water
Associated Lab Samples: 92749160005, 92749160006, 92749160007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/28/24 18:32	

LABORATORY CONTROL SAMPLE: 4526910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4526911 4526912

Parameter	Units	92749173009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	14.4	1	1	15.0	15.2	64	84	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

QC Batch: 877939
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749160001, 92749160002, 92749160003, 92749160004

METHOD BLANK: 4522336 Matrix: Water
Associated Lab Samples: 92749160001, 92749160002, 92749160003, 92749160004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/29/24 19:38	
Arsenic	mg/L	ND	0.0050	0.00084	08/29/24 19:38	
Barium	mg/L	ND	0.0050	0.00047	08/29/24 19:38	
Beryllium	mg/L	ND	0.00050	0.000094	08/29/24 19:38	
Boron	mg/L	ND	0.040	0.012	08/29/24 19:38	
Cadmium	mg/L	ND	0.00050	0.00010	08/29/24 19:38	
Chromium	mg/L	ND	0.0050	0.0019	08/29/24 19:38	
Cobalt	mg/L	ND	0.0050	0.00032	08/29/24 19:38	
Lead	mg/L	ND	0.0010	0.00016	08/29/24 19:38	
Lithium	mg/L	ND	0.030	0.0016	08/29/24 19:38	
Molybdenum	mg/L	ND	0.010	0.00062	08/29/24 19:38	
Selenium	mg/L	ND	0.0050	0.00096	08/29/24 19:38	
Thallium	mg/L	ND	0.0010	0.00038	08/29/24 19:38	

LABORATORY CONTROL SAMPLE: 4522337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522338 4522342

Parameter	Units	92749074010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Arsenic	mg/L	28.7 ug/L	0.1	0.1	0.13	0.13	100	97	75-125	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522338 4522342

Parameter	Units	92749074010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	93.3 ug/L	0.1	0.1	0.20	0.20	104	106	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.093	96	92	75-125	4	20	
Boron	mg/L	148 ug/L	1	1	1.1	1.1	94	91	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	97	97	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.099	0.096	97	94	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	105	104	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.098	103	97	75-125	6	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

QC Batch: 878587
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749160005, 92749160006, 92749160007

METHOD BLANK: 4525184 Matrix: Water
Associated Lab Samples: 92749160005, 92749160006, 92749160007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/03/24 20:15	
Arsenic	mg/L	0.0018J	0.0050	0.00084	09/03/24 20:15	
Barium	mg/L	ND	0.0050	0.00047	09/03/24 20:15	
Beryllium	mg/L	ND	0.00050	0.000094	09/03/24 20:15	
Boron	mg/L	0.013J	0.040	0.012	09/03/24 20:15	
Cadmium	mg/L	ND	0.00050	0.00010	09/03/24 20:15	
Chromium	mg/L	ND	0.0050	0.0019	09/03/24 20:15	
Cobalt	mg/L	ND	0.0050	0.00032	09/03/24 20:15	
Lead	mg/L	ND	0.0010	0.00016	09/03/24 20:15	
Lithium	mg/L	ND	0.030	0.0016	09/03/24 20:15	
Molybdenum	mg/L	ND	0.010	0.00062	09/03/24 20:15	
Selenium	mg/L	ND	0.0050	0.00096	09/03/24 20:15	
Thallium	mg/L	ND	0.0010	0.00038	09/03/24 20:15	

LABORATORY CONTROL SAMPLE: 4525185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4525186 4525187

Parameter	Units	92749173008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Arsenic	mg/L	0.0022J	0.1	0.1	0.10	0.099	98	97	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4525186 4525187

Parameter	Units	92749173008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.031	0.1	0.1	0.13	0.13	100	97	75-125	3	20	
Beryllium	mg/L	0.00012J	0.1	0.1	0.089	0.087	89	87	75-125	2	20	
Boron	mg/L	9.6	1	1	11.3	10.5	166	86	75-125	7	20	M1
Cadmium	mg/L	0.00025J	0.1	0.1	0.097	0.095	97	95	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	3	20	
Cobalt	mg/L	0.035	0.1	0.1	0.13	0.13	96	93	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20	
Lithium	mg/L	0.048	0.1	0.1	0.14	0.14	94	89	75-125	4	20	
Molybdenum	mg/L	0.0047J	0.1	0.1	0.10	0.10	100	97	75-125	3	20	
Selenium	mg/L	0.028	0.1	0.1	0.13	0.13	101	98	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.092	93	92	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

QC Batch: 880405 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749160001, 92749160002, 92749160003, 92749160004, 92749160005, 92749160006, 92749160007

METHOD BLANK: 4534210 Matrix: Water
Associated Lab Samples: 92749160001, 92749160002, 92749160003, 92749160004, 92749160005, 92749160006, 92749160007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/05/24 13:17	

LABORATORY CONTROL SAMPLE: 4534211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4534212 4534213

Parameter	Units	92748851023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00033	0.0025	0.0025	0.0028	0.0031	99	111	75-125	10	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

QC Batch: 878227 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749160001, 92749160002, 92749160003, 92749160004

METHOD BLANK: 4523487 Matrix: Water
Associated Lab Samples: 92749160001, 92749160002, 92749160003, 92749160004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/26/24 13:05	

LABORATORY CONTROL SAMPLE: 4523488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	422	106	80-120	

SAMPLE DUPLICATE: 4523489

Parameter	Units	92748202012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	463	460	1	10	

SAMPLE DUPLICATE: 4523490

Parameter	Units	92749160001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	320	332	4	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

QC Batch: 878881
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749160005, 92749160006, 92749160007

METHOD BLANK: 4526609 Matrix: Water
Associated Lab Samples: 92749160005, 92749160006, 92749160007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/28/24 13:46	

LABORATORY CONTROL SAMPLE: 4526610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	80-120	

SAMPLE DUPLICATE: 4526611

Parameter	Units	92749173008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	742	757	2	10	

SAMPLE DUPLICATE: 4526612

Parameter	Units	92749173023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	64.0	70.0	9	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

QC Batch: 877660
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92749160001, 92749160002, 92749160003, 92749160004

METHOD BLANK: 4521132 Matrix: Water
Associated Lab Samples: 92749160001, 92749160002, 92749160003, 92749160004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/23/24 00:05	
Fluoride	mg/L	ND	0.10	0.050	08/23/24 00:05	
Sulfate	mg/L	ND	1.0	0.50	08/23/24 00:05	

LABORATORY CONTROL SAMPLE: 4521133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.2	104	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521134 4521135

Parameter	Units	92749079006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.4	50	50	53.6	54.4	102	104	90-110	1	10	
Fluoride	mg/L	0.11	2.5	2.5	2.7	2.7	103	104	90-110	1	10	
Sulfate	mg/L	3.6	50	50	55.1	55.9	103	105	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521136 4521137

Parameter	Units	92749160003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	39.6	50	50	90.0	91.0	101	103	90-110	1	10	
Fluoride	mg/L	0.10	2.5	2.5	2.6	2.6	99	102	90-110	3	10	
Sulfate	mg/L	518	50	50	558	554	80	73	90-110	1	10	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92749160

QC Batch: 878325
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92749160005, 92749160006, 92749160007

METHOD BLANK: 4524069 Matrix: Water
Associated Lab Samples: 92749160005, 92749160006, 92749160007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/26/24 21:29	
Fluoride	mg/L	ND	0.10	0.050	08/26/24 21:29	
Sulfate	mg/L	ND	1.0	0.50	08/26/24 21:29	

LABORATORY CONTROL SAMPLE: 4524070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.7	99	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4524071 4524072

Parameter	Units	92749173013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.4	50	50	62.7	63.9	105	107	90-110	2	10	
Fluoride	mg/L	0.085J	2.5	2.5	2.5	2.6	96	100	90-110	3	10	
Sulfate	mg/L	1130	50	50	1200	1240	129	206	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4524073 4524074

Parameter	Units	92749173023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.2	52.3	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	101	103	90-110	2	10	
Sulfate	mg/L	ND	50	50	51.8	52.9	104	106	90-110	2	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT AP-1
Pace Project No.: 92749160

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-1
Pace Project No.: 92749160

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749160001	**YAT-YGWC-44**	EPA 3010A	878069	EPA 6010D	878095
92749160002	**YAT-YGWC-45**	EPA 3010A	878069	EPA 6010D	878095
92749160003	**YAT-YGWC-46A**	EPA 3010A	878069	EPA 6010D	878095
92749160004	**YAT-AP1-FD-1**	EPA 3010A	878069	EPA 6010D	878095
92749160005	**YAT-YGWC-52**	EPA 3010A	878921	EPA 6010D	879014
92749160006	**YAT-AP1-EB-1**	EPA 3010A	878921	EPA 6010D	879014
92749160007	**YAT-AP1-FB-1**	EPA 3010A	878921	EPA 6010D	879014
92749160001	**YAT-YGWC-44**	EPA 3005A	877939	EPA 6020B	878011
92749160002	**YAT-YGWC-45**	EPA 3005A	877939	EPA 6020B	878011
92749160003	**YAT-YGWC-46A**	EPA 3005A	877939	EPA 6020B	878011
92749160004	**YAT-AP1-FD-1**	EPA 3005A	877939	EPA 6020B	878011
92749160005	**YAT-YGWC-52**	EPA 3005A	878587	EPA 6020B	878673
92749160006	**YAT-AP1-EB-1**	EPA 3005A	878587	EPA 6020B	878673
92749160007	**YAT-AP1-FB-1**	EPA 3005A	878587	EPA 6020B	878673
92749160001	**YAT-YGWC-44**	EPA 7470A	880405	EPA 7470A	880509
92749160002	**YAT-YGWC-45**	EPA 7470A	880405	EPA 7470A	880509
92749160003	**YAT-YGWC-46A**	EPA 7470A	880405	EPA 7470A	880509
92749160004	**YAT-AP1-FD-1**	EPA 7470A	880405	EPA 7470A	880509
92749160005	**YAT-YGWC-52**	EPA 7470A	880405	EPA 7470A	880509
92749160006	**YAT-AP1-EB-1**	EPA 7470A	880405	EPA 7470A	880509
92749160007	**YAT-AP1-FB-1**	EPA 7470A	880405	EPA 7470A	880509
92749160001	**YAT-YGWC-44**	SM 2540C-2015	878227		
92749160002	**YAT-YGWC-45**	SM 2540C-2015	878227		
92749160003	**YAT-YGWC-46A**	SM 2540C-2015	878227		
92749160004	**YAT-AP1-FD-1**	SM 2540C-2015	878227		
92749160005	**YAT-YGWC-52**	SM 2540C-2015	878881		
92749160006	**YAT-AP1-EB-1**	SM 2540C-2015	878881		
92749160007	**YAT-AP1-FB-1**	SM 2540C-2015	878881		
92749160001	**YAT-YGWC-44**	EPA 300.0 Rev 2.1 1993	877660		
92749160002	**YAT-YGWC-45**	EPA 300.0 Rev 2.1 1993	877660		
92749160003	**YAT-YGWC-46A**	EPA 300.0 Rev 2.1 1993	877660		
92749160004	**YAT-AP1-FD-1**	EPA 300.0 Rev 2.1 1993	877660		
92749160005	**YAT-YGWC-52**	EPA 300.0 Rev 2.1 1993	878325		
92749160006	**YAT-AP1-EB-1**	EPA 300.0 Rev 2.1 1993	878325		
92749160007	**YAT-AP1-FB-1**	EPA 300.0 Rev 2.1 1993	878325		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace

DG#_Title: ENV-FRM-[illegible]_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92749160

92749160

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/22/24 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92749160

PM: BV **Due Date: 09/06/24**

CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO#: 92749160

PM: BV Due Date: 09/06/24

CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client: _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singelton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-1	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-52	WG	G			—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-44	WG	G	8/21/24	1010	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-45	WG	G	8/21/24	1338	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-46A	WG	G	8/21/24	1136	—	—		5		X	X	X	X	See Remarks	
YAT-AP1-FD-1	WG	G	8/21/24	—	—	—		5		X	X	X	X	See Remarks	
YAT-AP1-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AP1-FB-1	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	8/22/24 0730	Arcadis	8/22/24 0730
Arcadis	8/22/24 0925	Pace	8/22/24 0926
Pace	8/22/24 1215		8/22/24 1215

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singelton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.946.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-1		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [x] ET

County / State origin of sample(s): Georgia

Data Deliverables: [x] Level II [ ] Level III [ ] Level IV [x] EQUIS [ ] Other

Regulatory Program: (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-52	WG	G	8/22/24	0930	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-44	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-45	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-46A	WG	G						5		X	X	X	X	See Remarks	
YAT-AP1-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AP1-EB-1	WG	G	8/22/24	0955	—	—		5		X	X	X	X	See Remarks	
YAT-AP1-FB-1	WG	G	8/22/24	0940	—	—		5		X	X	X	X	See Remarks	

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
/ARCADIS	8/23/24 1130	/Arcadis	8/23/24 1130
/Arcadis 1350	8/23/24 1350		8/23/24 1350

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace

DC#_Title: ENV-FRM-[illegible]_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 8/23/24 DP

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1U	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5EU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		1	1		2	1																							
2		1	1		2	1																							
3		1	1		2	1																							
4		1	1		2	1																							
5		1	1		2	1																							
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 20, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-1- RADs
Pace Project No.: 92749165

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between August 22, 2024 and August 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92749165001	**YAT-YGWC-44**	Water	08/21/24 10:10	08/22/24 09:25
92749165002	**YAT-YGWC-45**	Water	08/21/24 13:38	08/22/24 09:25
92749165003	**YAT-YGWC-46A**	Water	08/21/24 11:36	08/22/24 09:25
92749165004	**YAT-AP1-FD-1**	Water	08/21/24 00:00	08/22/24 09:25
92749165005	**YAT-YGWC-52**	Water	08/22/24 09:30	08/23/24 13:50
92749165006	**YAT-AP1-EB-1**	Water	08/22/24 09:55	08/23/24 13:50
92749165007	**YAT-AP1-FB-1**	Water	08/22/24 09:40	08/23/24 13:50

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92749165001	**YAT-YGWC-44**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749165002	**YAT-YGWC-45**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749165003	**YAT-YGWC-46A**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749165004	**YAT-AP1-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749165005	**YAT-YGWC-52**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749165006	**YAT-AP1-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749165007	**YAT-AP1-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749165001	**YAT-YGWC-44**					
EPA 9315	Radium-226	0.0827U ± 0.103 (0.213) C:82% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.328U ± 0.334 (0.687) C:78% T:85%	pCi/L		09/11/24 14:24	
Total Radium Calculation	Total Radium	0.411U ± 0.437 (0.900)	pCi/L		09/16/24 15:34	
92749165002	**YAT-YGWC-45**					
EPA 9315	Radium-226	0.910 ± 0.272 (0.161) C:87% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.380U ± 0.364 (0.742) C:79% T:83%	pCi/L		09/11/24 14:24	
Total Radium Calculation	Total Radium	1.29 ± 0.636 (0.903)	pCi/L		09/16/24 15:34	
92749165003	**YAT-YGWC-46A**					
EPA 9315	Radium-226	0.584 ± 0.228 (0.245) C:78% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	1.29 ± 0.495 (0.746) C:77% T:86%	pCi/L		09/11/24 14:24	
Total Radium Calculation	Total Radium	1.87 ± 0.723 (0.991)	pCi/L		09/16/24 15:34	
92749165004	**YAT-AP1-FD-1**					
EPA 9315	Radium-226	0.730 ± 0.276 (0.331) C:71% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	1.44 ± 0.596 (0.995) C:75% T:88%	pCi/L		09/11/24 14:24	
Total Radium Calculation	Total Radium	2.17 ± 0.872 (1.33)	pCi/L		09/16/24 15:34	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749165005	**YAT-YGWC-52**					
EPA 9315	Radium-226	0.256 ± 0.157 (0.228) C:86% T:NA	pCi/L		09/19/24 08:25	
EPA 9320	Radium-228	0.606U ± 0.457 (0.907) C:84% T:80%	pCi/L		09/13/24 14:30	
Total Radium Calculation	Total Radium	0.862U ± 0.614 (1.14)	pCi/L		09/19/24 16:19	
92749165006	**YAT-AP1-EB-1**					
EPA 9315	Radium-226	-0.0745U ± 0.206 (0.606) C:33% T:NA	pCi/L		09/19/24 08:36	
EPA 9320	Radium-228	0.0500U ± 0.390 (0.892) C:82% T:85%	pCi/L		09/13/24 14:30	
Total Radium Calculation	Total Radium	0.0500U ± 0.596 (1.50)	pCi/L		09/19/24 16:19	
92749165007	**YAT-AP1-FB-1**					
EPA 9315	Radium-226	0.0504U ± 0.107 (0.251) C:93% T:NA	pCi/L		09/19/24 08:36	
EPA 9320	Radium-228	0.0817U ± 0.358 (0.816) C:78% T:86%	pCi/L		09/13/24 14:25	
Total Radium Calculation	Total Radium	0.132U ± 0.465 (1.07)	pCi/L		09/19/24 16:19	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Sample: YAT-YGWC-44 **Lab ID: 92749165001** Collected: 08/21/24 10:10 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0827U ± 0.103 (0.213) C:82% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.328U ± 0.334 (0.687) C:78% T:85%**	pCi/L	09/11/24 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.411U ± 0.437 (0.900)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Sample: YAT-YGWC-45 **Lab ID: 92749165002** Collected: 08/21/24 13:38 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.910 ± 0.272 (0.161) C:87% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.380U ± 0.364 (0.742) C:79% T:83%**	pCi/L	09/11/24 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.29 ± 0.636 (0.903)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Sample: YAT-YGWC-46A **Lab ID: 92749165003** Collected: 08/21/24 11:36 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.584 ± 0.228 (0.245) C:78% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.29 ± 0.495 (0.746) C:77% T:86%**	pCi/L	09/11/24 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.87 ± 0.723 (0.991)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Sample: YAT-AP1-FD-1 **Lab ID: 92749165004** Collected: 08/21/24 00:00 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.730 ± 0.276 (0.331) C:71% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.44 ± 0.596 (0.995) C:75% T:88%**	pCi/L	09/11/24 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.17 ± 0.872 (1.33)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Sample: YAT-YGWC-52 **Lab ID: 92749165005** Collected: 08/22/24 09:30 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.256 ± 0.157 (0.228) C:86% T:NA**	pCi/L	09/19/24 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.606U ± 0.457 (0.907) C:84% T:80%**	pCi/L	09/13/24 14:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.862U ± 0.614 (1.14)**	pCi/L	09/19/24 16:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Sample: YAT-AP1-EB-1 **Lab ID: 92749165006** Collected: 08/22/24 09:55 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0745U ± 0.206 (0.606) C:33% T:NA**	pCi/L	09/19/24 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0500U ± 0.390 (0.892) C:82% T:85%**	pCi/L	09/13/24 14:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0500U ± 0.596 (1.50)**	pCi/L	09/19/24 16:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Sample: YAT-AP1-FB-1 **Lab ID: 92749165007** Collected: 08/22/24 09:40 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0504U ± 0.107 (0.251) C:93% T:NA**	pCi/L	09/19/24 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0817U ± 0.358 (0.816) C:78% T:86%**	pCi/L	09/13/24 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.132U ± 0.465 (1.07)**	pCi/L	09/19/24 16:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

QC Batch: 693376
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749165005, 92749165006, 92749165007

METHOD BLANK: 3376233 Matrix: Water
Associated Lab Samples: 92749165005, 92749165006, 92749165007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0354 ± 0.0920 (0.223) C:89% T:NA	pCi/L	09/19/24 08:23	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

QC Batch: 692082
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749165001, 92749165002, 92749165003, 92749165004

METHOD BLANK: 3370048 Matrix: Water
Associated Lab Samples: 92749165001, 92749165002, 92749165003, 92749165004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0815 ± 0.144 (0.327) C:92% T:NA	pCi/L	09/16/24 08:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

QC Batch: 691962
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749165001, 92749165002, 92749165003, 92749165004

METHOD BLANK: 3369429 Matrix: Water
Associated Lab Samples: 92749165001, 92749165002, 92749165003, 92749165004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.325 ± 0.297 (0.601) C:85% T:93%	pCi/L	09/11/24 14:23	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1- RADs
Pace Project No.: 92749165

QC Batch: 693289
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749165005, 92749165006, 92749165007

METHOD BLANK: 3375868 Matrix: Water
Associated Lab Samples: 92749165005, 92749165006, 92749165007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.898 ± 0.418 (0.691) C:81% T:84%	pCi/L	09/13/24 14:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT AP-1- RADs
Pace Project No.: 92749165

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-1- RADs
Pace Project No.: 92749165

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749165001	**YAT-YGWC-44**	EPA 9315	692082		
92749165002	**YAT-YGWC-45**	EPA 9315	692082		
92749165003	**YAT-YGWC-46A**	EPA 9315	692082		
92749165004	**YAT-AP1-FD-1**	EPA 9315	692082		
92749165005	**YAT-YGWC-52**	EPA 9315	693376		
92749165006	**YAT-AP1-EB-1**	EPA 9315	693376		
92749165007	**YAT-AP1-FB-1**	EPA 9315	693376		
92749165001	**YAT-YGWC-44**	EPA 9320	691962		
92749165002	**YAT-YGWC-45**	EPA 9320	691962		
92749165003	**YAT-YGWC-46A**	EPA 9320	691962		
92749165004	**YAT-AP1-FD-1**	EPA 9320	691962		
92749165005	**YAT-YGWC-52**	EPA 9320	693289		
92749165006	**YAT-AP1-EB-1**	EPA 9320	693289		
92749165007	**YAT-AP1-FB-1**	EPA 9320	693289		
92749165001	**YAT-YGWC-44**	Total Radium Calculation	696366		
92749165002	**YAT-YGWC-45**	Total Radium Calculation	696366		
92749165003	**YAT-YGWC-46A**	Total Radium Calculation	696366		
92749165004	**YAT-AP1-FD-1**	Total Radium Calculation	696366		
92749165005	**YAT-YGWC-52**	Total Radium Calculation	697334		
92749165006	**YAT-AP1-EB-1**	Total Radium Calculation	697334		
92749165007	**YAT-AP1-FB-1**	Total Radium Calculation	697334		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace

DG#_Title: ENV-FRM-[illegible]_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92749165

92749165

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/22/24 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92749165

PM: BV **Due Date: 09/13/24**

CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		2																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92749165

PM: BV **Due Date: 09/13/24**

CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client: _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singelton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-1	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV; [X] EQUIS; [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWC-52	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-44	WG	G	8/21/24	1010	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-45	WG	G	8/21/24	1338	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-46A	WG	G	8/21/24	1136	—	—		5		X	X	X	X	See Remarks
YAT-AP1-FD-1	WG	G	8/21/24	—	—	—		5		X	X	X	X	See Remarks
YAT-AP1-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-AP1-FB-1	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	8/22/24 0730	Arcadis	8/22/24 0730
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/22/24 0925	Pace	8/22/24 0926
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Pace	8/22/24 1215		8/22/24 1215
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singelton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.846.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-1		Purchase Order # (if applicable):	GFCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program: (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) 2nCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-52	WG	G	8/22/24	0930	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-44	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-45	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-46A	WG	G						5		X	X	X	X	See Remarks	
YAT-AP1-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AP1-EB-1	WG	G	8/22/24	0955	—	—		5		X	X	X	X	See Remarks	
YAT-AP1-FB-1	WG	G	8/22/24	0940	—	—		5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ARCADIS	8/23/24 1130	Arcadis	8/23/24 1130
Arcadis 1350	8/23/24 1350		8/23/24 1350

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace

DC#_Title: ENV-FRM-ATHN-0008 v08_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/23/24 TSH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N-1 liter Plastic H2SO4 (pH < 2)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC					BP1N																									
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	6PU	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																															
1		1	1		2		1																								
2		1	1		2		1																								
3		1	1		2		1																								
4		1	1		2		1																								
5		1	1		2		1																								
6																															
7																															
8																															
9																															
10																															
11																															
12																															

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/5/2024
Worklist:	80993
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3369429
MB concentration:	0.325
M/B 2 Sigma CSU:	0.297
MB MDC:	0.601
MB Numerical Performance Indicator:	2.14
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS80993	**LCSD80993**
Count Date:	9/11/2024	9/11/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.330	35.330
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.815
Target Conc. (pCi/L, g, F):	4.330	4.333
Uncertainty (Calculated):	0.212	0.212
Result (pCi/L, g, F):	4.124	3.468
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.955	0.836
Numerical Performance Indicator:	-0.41	-1.97
Percent Recovery:	95.23%	80.05%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS80993	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD80993	
Sample Result (pCi/L, g, F):	4.124	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.955	
Sample Duplicate Result (pCi/L, g, F):	3.468	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.836	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.012	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.32%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ZPC 9.12.24

VAL 9/12/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/9/2024
Worklist:	81111
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3375868
MB concentration:	0.898
M/B 2 Sigma CSU:	0.418
MB MDC:	0.691
MB Numerical Performance Indicator:	4.21
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81111	**LCSD81111**
Count Date:	9/13/2024	9/13/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.306	35.306
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.818
Target Conc. (pCi/L, g, F):	4.327	4.317
Uncertainty (Calculated):	0.212	0.212
Result (pCi/L, g, F):	4.229	3.743
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.985	0.898
Numerical Performance Indicator:	-0.19	-1.22
Percent Recovery:	97.74%	86.70%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81111	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81111	
Sample Result (pCi/L, g, F):	4.229	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.985	
Sample Duplicate Result (pCi/L, g, F):	3.743	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.898	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.715	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.98%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

ET 9-16-24

9/16/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/9/2024
Worklist:	81002
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3370048
MB concentration:	0.081
M/B 2 Sigma CSU:	0.144
MB MDC:	0.327
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81002	**LCSD81002**
Count Date:	9/16/2024	9/16/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.503
Target Conc. (pCi/L, g, F):	4.943	4.974
Uncertainty (Calculated):	0.232	0.234
Result (pCi/L, g, F):	5.073	4.860
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.914	0.921
Numerical Performance Indicator:	0.27	-0.23
Percent Recovery:	102.61%	97.71%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81002	92749185006
Duplicate Sample I.D.	LCSD81002	92749185006DUP
Sample Result (pCi/L, g, F):	5.073	0.163
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.914	0.129
Sample Duplicate Result (pCi/L, g, F):	4.860	0.126
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.921	0.130
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.321	0.399
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.89%	25.75%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

LT 9-16-24

VAm 9/16/24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/12/2024
Worklist:	81121
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3376233
MB concentration:	0.035
M/B 2 Sigma CSU:	0.092
MB MDC:	0.223
MB Numerical Performance Indicator:	0.75
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81121	LCSD81121
Count Date:	9/19/2024	9/19/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.503
Target Conc. (pCi/L, g, F):	5.000	4.973
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	4.407	5.008
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.835	0.920
Numerical Performance Indicator:	-1.34	0.07
Percent Recovery:	88.15%	100.72%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81121	92749203007
Duplicate Sample I.D.	LCSD81121	92749203007DUP
Sample Result (pCi/L, g, F):	4.407	0.128
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.835	0.101
Sample Duplicate Result (pCi/L, g, F):	5.008	0.252
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.920	0.134
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.949	-1.444
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.31%	65.11%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET 9-19-24

VAM 9/19/24

Upgradient Wells

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92748851 and 92748880

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #55993R
Review Level: Tier II
Project: 30143607.3C, 30113037.3C, 30143626.3C

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92748851 and 92748880 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-30I	92748851001 92748880001	Water	8/20/2024		X	X	X
YAT-YGWA-14S	92748851002 92748880002	Water	8/20/2024		X	X	X
YAT-YGWA-3I	92748851003 92748880003	Water	8/20/2024		X	X	X
YAT-YGWA-3D	92748851004 92748880004	Water	8/20/2024		X	X	X
YAT-YGWA-21I	92748851005 92748880005	Water	8/20/2024		X	X	X
YAT-YGWA-4I	92748851006 92748880006	Water	8/20/2024		X	X	X
YAT-YGWA-5I	92748851007 92748880007	Water	8/20/2024		X	X	X
YAT-YGWA-20S	92748851008 92748880008	Water	8/20/2024		X	X	X
YAT-YGWA-47	92748851009 92748880007	Water	8/20/2024		X	X	X
YAT-YGWA-1I	92748851010 92748880010	Water	8/20/2024		X	X	X
YAT-YGWA-1D	92748851011 92748880011	Water	8/20/2024		X	X	X
YAT-YGWA-2I	92748851012 92748880012	Water	8/20/2024		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-UGRD-FB-1	92748851013 92748880013	Water	8/20/2024		X	X	X
YAT-UGRD-FD-1	92748851014 92748880019	Water	8/20/2024	YAT-YGWA-1I	X	X	X
YAT-YGWA-5D	92748851015 92748880015	Water	8/20/2024		X	X	X
YAT-YGWA-17S	92748851016 92748880016	Water	8/20/2024		X	X	X
YAT-YGWA-18I	92748851017 92748880017	Water	8/20/2024		X	X	X
YAT-UGRD-EB-2	92748851020 92748880020	Water	8/20/2024		X	X	X
YAT-UGRD-FB-2	92748851021 92748880021	Water	8/20/2021		X	X	X
YAT-YGWA-39	92748851022 92748880022	Water	8/21/2024		X	X	X
YAT-YGWA-40	92748851023 92748880023	Water	8/21/2024		X	X	X
YAT-YGWA-18S	92748851024 92748880024	Water	8/21/2024		X	X	X
YAT-UGRD-EB-1	92748851025 92748880025	Water	8/21/2024		X	X	X
YAT-UGRD-FD-2	92748851026 92748880026	Water	8/21/2024	YAT-YGWA-18S	X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWA-39 YAT-YGWA-40	Arsenic (MB)	Detected sample results <RL and <BAL	“UB” at RL

Notes:
MB Method blank
RL Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was performed using samples YAT-YGWA-21I and YAT-YGWA-39 in association with SW-846 6010D analysis. The concentrations of calcium in the unspiked analysis were greater than four-times the spike concentration, hence, the SW-846 6010D MS/MSD sample results were not evaluated for this analyte.

The MS/MSD analysis performed using sample YAT-YGWA-1I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-YGWA-30I and YAT-YGWA-40 in association with SW-846 7470A analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D, SW-846 6020B, and SW-846 7470A. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWA-1I / YAT-UGRD-FD-1	Calcium	1.9	1.9	AC
	Barium	0.0072	0.0073	
	Cobalt	0.00033 J	0.00036 J	
	Lithium	0.0023 J	0.0023 J	
	Molybdenum	0.0039 J	0.0038 J	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWA-18S / YAT-UGRD-FD-2	Calcium	0.96 J	0.96 J	AC
	Barium	0.015	0.015	
	Lithium	0.0032 J	0.0030 J	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWA-1I and field duplicate sample YAT-UGRD-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWA-18S and field duplicate sample YAT-UGRD-FD-2 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWA-17S YAT-YGWA-18I	TDS (EB, FB)	Detected sample results >RL and <BAL	"J+" at detected sample concentration

Notes:
EB Equipment blank
FB Field blank
RL Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using samples YAT-YGWA-14S, YAT-YGWA-2I, and YAT-UGRD-FB-2 in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions. The MS/MSD recoveries exhibited acceptable RPDs.

The laboratory duplicate analysis performed using samples YAT-YGWA-47, YAT-UGRD-FB-2, and YAT-YGWA-39 in association with TDS analysis exhibited RPDs within the control limit.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWA-1I / YAT-UGRD-FD-1	TDS	67.0	59.0	AC
	Chloride	1.3	1.3	
	Sulfate	4.9	4.8	
YAT-YGWA-18S / YAT-UGRD-FD-2	TDS	79.0	67.0	AC
	Fluoride	0.051 J	0.052 J	
	Sulfate	1.1	1.1	
	Chloride	7.4	7.3	1.4%

Note:
AC Acceptable

The differences in the results between the parent sample YAT-YGWA-1I and field duplicate sample YAT-UGRD-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWA-18S and field duplicate sample YAT-UGRD-FD-2 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$Normalized\ \ absolute\ difference_{\ MethodBlank} = \frac{|\ Sample\ -\ Blank\ |}{\sqrt{(U_{Sample}\ )^2 + (U_{Blank}\ )^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

Note:
* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 and Radium-228 were detected in the method blanks, however, the activity was measured as less than the MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The laboratory duplicate performed on sample location YAT-YGWA-5D in association with Radium-226 analysis exhibited an acceptable difference between the results.

Laboratory duplicate analysis was not performed using a sample from this SDG in association with Radium-228 analysis.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWA-1I / YAT-UGRD-FD-1	Radium-226	0.0860U ± 0.0997	0.0784U ± 0.127	AC
	Radium-228	0.564U ± 0.350	0.477U ± 0.302	
	Total Radium	0.650U ± 0.450	0.555U ± 0.429	
YAT-YGWA-18S / YAT-UGRD-FD-2	Radium-226	0.0674U ± 0.156	0.239U ± 0.201	AC
	Radium-228	0.617U ± 0.458	0.304U ± 0.323	
	Total Radium	0.684U ± 0.614	0.543U ± 0.524	

Note:
AC = Acceptable

The results were below the MDC in the parent sample YAT-YGWA-1I and field duplicate sample YAT-UGRD-FD-1.

The results were below the MDC in the parent sample YAT-YGWA-18S and field duplicate sample YAT-UGRD-FD-2.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results were qualified as “U” by the laboratory as applicable.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:
%R Percent recovery
RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: September 27, 2024

PEER REVIEW: Dennis Capria

DATE: October 2, 2024

Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92748851

92748851

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G	8/20/24	1737	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G	8/20/24	1618	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G	8/20/24	1302	—	—		5		X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time		Date/Time	Tracking Number:
Relinquished by/Company: (Signature) ARCADIS	8/21/24 0820	Received by/Company: (Signature) Arcadis	8/21/24 0820	
Relinquished by/Company: (Signature) Arcadis	8/21/24 1020	Received by/Company: (Signature) Ryan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Ryan Williams / Pace	8/21/24 1250	Received by/Company: (Signature) Pace	8/21/24 1230	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain of Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [x] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [x] Level II [ ] Level III [ ] Level IV [x] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:		
	Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other Date Results Requested:	DW PWSID # or WW Permit # as applicable:	
		Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non conformance identified for sample
YAT-YGWA-47	WG	G			—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G	8/20/24	1640	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G	8/20/24	1200	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G	8/20/24	0959	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Perry Studebaker / Arcadis	8/21/24 0800	Jessica Dare / Arcadis	8/21/24 0800	
Jessica Dare / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	8/21/24 1230	MAW / Pace	~~8/21/24~~ 8/21/24 1230	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G	8/20/24	1735	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Sparks
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	8/20/24 1830	(Arcadis)	8/20/24 1830	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
(Arcadis)	8/21/24 1020	Ryan W. Williams / Pace	8/21/24 1020	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Ryan W. Williams / Pace	8/21/24 1230	Pace	8/21/24 1230	Page: of
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ®

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non conformance identified for sample
								Specify Container Size **		3	3	2	1		
								Identify Container Preservative Type***		2	1	1	2		
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G	8/20/24	1025	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G	8/20/24	1230	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G	8/20/24	1515	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks	

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct.Num / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis): David Pogue
Signature: (Arcadis):

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/20/24 1830	Arcadis	8/20/24 1830
Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020
Ryan Williams / Pace	8/21/24 1230	MATW / Pace	8/21/24
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORC-0019_v01_082123 ©

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV; [X] EQUIS; [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No; Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT); Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-UGRD-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G	8/20/24	1530	—	—		5		X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	8/20/24	—	—	—		5		X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl, 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/20/24 1830	Jessica Dow / Arcadis	8/20/24 1830
Jessica Dow / Arcadis	8/21/24 1020	Tyan Williams / Pace	8/21/24 1020
Tyan Williams / Pace	8/21/24 1230	MAW/Pace	8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.846.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program: (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G	8/20/24	0957	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G	8/20/24	1245	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G	8/20/24	1422	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks
														See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis): Jessica Ware
Signature: (Arcadis): Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) Jessica Ware / Arcadis	8/21/24 1020	Received by/Company: (Signature) Ryan Williams / Pace	8/21/24 1020
Relinquished by/Company: (Signature) Ryan Williams / Pace	8/21/24 1230	Received by/Company: (Signature) MRW / Pace	8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Trading Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G	8/20/24					5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G	8/20/24	1857				5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	8/20/24	1030	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1620
Ryan Williams / Pace	8/21/24 1230	Mona / Pace	8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92748851

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G	8/21/24	1240	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G	8/21/24	1515	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis) - David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
David Prouty / Arcadis	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925	
Ryan Williams / Pace	8/22/24 1215	Olivia Hanks	8/22/24 1215	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G	8/21/24	0945	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	8/22/24 0975	Ryan Williams / Pace	8/22/24 0925
Ryan Williams / Pace	8/22/24 1215		8/22/24 1245
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave, Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G	8/21/24	1525	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G	8/21/24	—	—	—		5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Arcadis	Date/Time: 8/22/24 0925	Received by/Company: (Signature) Ryan W. Williams / Pace	Date/Time: 8/22/24 0925	Tracking Number:
Relinquished by/Company: (Signature) Ryan W. Williams / Pace	Date/Time: 8/22/24 1215	Received by/Company: (Signature)	Date/Time: 8/22/24 1215	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92748851	YAT-YGWA-17S	SM2540C	Total Dissolved Solids	86.0	mg/L	J+	Blank contamination
	YAT-YGWA-18I	SM2540C	Total Dissolved Solids	128	mg/L	J+	Blank contamination
	YAT-YGWA-39	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YGWA-40	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
92748880	No qualifiers assigned						

Abbreviations:

mg/L = milligram per liter

Qualifiers:

J+ = estimated result with possible high bias
UB = not detected

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 06, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between August 21, 2024 and August 22, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92748851001	**YAT-YGWA-30I**	Water	08/20/24 17:37	08/21/24 12:30
92748851002	**YAT-YGWA-14S**	Water	08/20/24 16:18	08/21/24 12:30
92748851003	**YAT-YGWA-3I**	Water	08/20/24 14:30	08/21/24 12:30
92748851004	**YAT-YGWA-3D**	Water	08/20/24 13:02	08/21/24 12:30
92748851005	**YAT-YGWA-21I**	Water	08/20/24 16:40	08/21/24 12:30
92748851006	**YAT-YGWA-4I**	Water	08/20/24 12:00	08/21/24 12:30
92748851007	**YAT-YGWA-5I**	Water	08/20/24 09:59	08/21/24 12:30
92748851008	**YAT-YGWA-20S**	Water	08/20/24 14:30	08/21/24 12:30
92748851009	**YAT-YGWA-47**	Water	08/20/24 17:35	08/21/24 12:30
92748851010	**YAT-YGWA-1I**	Water	08/20/24 10:25	08/21/24 12:30
92748851011	**YAT-YGWA-1D**	Water	08/20/24 12:30	08/21/24 12:30
92748851012	**YAT-YGWA-2I**	Water	08/20/24 15:15	08/21/24 12:30
92748851013	**YAT-UGRD-FB-1**	Water	08/20/24 15:30	08/21/24 12:30
92748851014	**YAT-UGRD-FD-1**	Water	08/20/24 00:00	08/21/24 12:30
92748851015	**YAT-YGWA-5D**	Water	08/20/24 09:57	08/21/24 12:30
92748851016	**YAT-YGWA-17S**	Water	08/20/24 12:45	08/21/24 12:30
92748851017	**YAT-YGWA-18I**	Water	08/20/24 14:22	08/21/24 12:30
92748851020	**YAT-UGRD-EB-2**	Water	08/20/24 18:57	08/21/24 12:30
92748851021	**YAT-UGRD-FB-2**	Water	08/20/24 10:30	08/21/24 12:30
92748851022	**YAT-YGWA-39**	Water	08/21/24 12:40	08/22/24 09:25
92748851023	**YAT-YGWA-40**	Water	08/21/24 15:15	08/22/24 09:25
92748851024	**YAT-YGWA-18S**	Water	08/21/24 09:45	08/22/24 09:25
92748851025	**YAT-UGRD-EB-1**	Water	08/21/24 15:25	08/22/24 09:25
92748851026	**YAT-UGRD-FD-2**	Water	08/21/24 00:00	08/22/24 09:25

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92748851001	**YAT-YGWA-30I**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92748851002	**YAT-YGWA-14S**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851003	**YAT-YGWA-3I**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851004	**YAT-YGWA-3D**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851005	**YAT-YGWA-21I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851006	**YAT-YGWA-4I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851007	**YAT-YGWA-5I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851008	**YAT-YGWA-20S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851009	**YAT-YGWA-47**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851010	**YAT-YGWA-1I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851011	**YAT-YGWA-1D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851012	**YAT-YGWA-2I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851013	**YAT-UGRD-FB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851014	**YAT-UGRD-FD-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851015	**YAT-YGWA-5D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851016	**YAT-YGWA-17S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851017	**YAT-YGWA-18I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851020	**YAT-UGRD-EB-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851021	**YAT-UGRD-FB-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851022	**YAT-YGWA-39**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851023	**YAT-YGWA-40**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851024	**YAT-YGWA-18S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851025	**YAT-UGRD-EB-1**	EPA 6010D	DRB	1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851026	**YAT-UGRD-FD-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748851001	**YAT-YGWA-30I**					
EPA 6010D	Calcium	1.4	mg/L	1.0	08/25/24 21:31	
EPA 6020B	Barium	0.0067	mg/L	0.0050	08/26/24 18:12	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	08/26/24 18:12	
SM 2540C-2015	Total Dissolved Solids	69.0	mg/L	25.0	08/22/24 13:21	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	08/23/24 04:47	
EPA 300.0 Rev 2.1 1993	Sulfate	0.74J	mg/L	1.0	08/23/24 04:47	
92748851002	**YAT-YGWA-14S**					
EPA 6010D	Calcium	1.3	mg/L	1.0	08/25/24 21:34	
EPA 6020B	Barium	0.0075	mg/L	0.0050	08/26/24 18:16	
EPA 6020B	Beryllium	0.00021J	mg/L	0.00050	08/26/24 18:16	
EPA 6020B	Boron	0.014J	mg/L	0.040	08/26/24 18:16	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	08/26/24 18:16	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	25.0	08/22/24 13:23	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	08/23/24 00:48	
EPA 300.0 Rev 2.1 1993	Sulfate	7.6	mg/L	1.0	08/23/24 00:48	
92748851003	**YAT-YGWA-3I**					
EPA 6010D	Calcium	23.4	mg/L	1.0	08/25/24 21:39	
EPA 6020B	Barium	0.0027J	mg/L	0.0050	08/26/24 18:20	
EPA 6020B	Lithium	0.017J	mg/L	0.030	08/26/24 18:20	
EPA 6020B	Molybdenum	0.0058J	mg/L	0.010	08/26/24 18:20	
SM 2540C-2015	Total Dissolved Solids	179	mg/L	25.0	08/22/24 13:23	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	08/23/24 01:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	08/23/24 01:32	
EPA 300.0 Rev 2.1 1993	Sulfate	13.7	mg/L	1.0	08/23/24 01:32	
92748851004	**YAT-YGWA-3D**					
EPA 6010D	Calcium	30.0	mg/L	1.0	08/25/24 21:42	
EPA 6020B	Barium	0.0044J	mg/L	0.0050	08/26/24 18:24	
EPA 6020B	Lithium	0.021J	mg/L	0.030	08/26/24 18:24	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	08/26/24 18:24	
SM 2540C-2015	Total Dissolved Solids	164	mg/L	25.0	08/22/24 13:24	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/23/24 02:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.45	mg/L	0.10	08/23/24 02:34	
EPA 300.0 Rev 2.1 1993	Sulfate	7.7	mg/L	1.0	08/23/24 02:34	
92748851005	**YAT-YGWA-21I**					
EPA 6010D	Calcium	6.9	mg/L	1.0	08/26/24 12:43	M1
EPA 6020B	Barium	0.0083	mg/L	0.0050	08/26/24 18:35	
EPA 6020B	Cobalt	0.020	mg/L	0.0050	08/26/24 18:35	
EPA 6020B	Lithium	0.0057J	mg/L	0.030	08/26/24 18:35	
SM 2540C-2015	Total Dissolved Solids	143	mg/L	25.0	08/22/24 13:24	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	08/23/24 02:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	08/23/24 02:49	
EPA 300.0 Rev 2.1 1993	Sulfate	4.0	mg/L	1.0	08/23/24 02:49	
92748851006	**YAT-YGWA-4I**					
EPA 6010D	Calcium	9.1	mg/L	1.0	08/26/24 13:03	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748851006	**YAT-YGWA-4I**					
EPA 6020B	Barium	0.012	mg/L	0.0050	08/26/24 18:38	
EPA 6020B	Cadmium	0.00019J	mg/L	0.00050	08/26/24 18:38	
EPA 6020B	Lithium	0.011J	mg/L	0.030	08/26/24 18:38	
SM 2540C-2015	Total Dissolved Solids	128	mg/L	25.0	08/22/24 13:24	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	08/23/24 03:03	
EPA 300.0 Rev 2.1 1993	Sulfate	8.7	mg/L	1.0	08/23/24 03:03	
92748851007	**YAT-YGWA-5I**					
EPA 6010D	Calcium	3.2	mg/L	1.0	08/26/24 13:07	
EPA 6020B	Barium	0.018	mg/L	0.0050	08/26/24 18:42	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	08/26/24 18:42	
SM 2540C-2015	Total Dissolved Solids	108	mg/L	25.0	08/22/24 13:24	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	08/23/24 03:17	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	08/23/24 03:17	
92748851008	**YAT-YGWA-20S**					
EPA 6010D	Calcium	2.8	mg/L	1.0	08/26/24 13:10	
EPA 6020B	Barium	0.012	mg/L	0.0050	08/26/24 18:46	
SM 2540C-2015	Total Dissolved Solids	75.0	mg/L	25.0	08/22/24 13:24	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	08/23/24 03:32	
92748851009	**YAT-YGWA-47**					
EPA 6010D	Calcium	10	mg/L	5.0	08/27/24 20:20	
EPA 6020B	Barium	0.031	mg/L	0.0050	08/26/24 18:49	
EPA 6020B	Cobalt	0.00034J	mg/L	0.0050	08/26/24 18:49	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	08/26/24 18:49	
SM 2540C-2015	Total Dissolved Solids	155	mg/L	25.0	08/22/24 13:25	
EPA 300.0 Rev 2.1 1993	Chloride	3.6	mg/L	1.0	08/23/24 03:46	
EPA 300.0 Rev 2.1 1993	Sulfate	53.9	mg/L	1.0	08/23/24 03:46	
92748851010	**YAT-YGWA-1I**					
EPA 6010D	Calcium	1.9	mg/L	1.0	08/26/24 13:18	
EPA 6020B	Barium	0.0072	mg/L	0.0050	08/27/24 13:52	
EPA 6020B	Cobalt	0.00033J	mg/L	0.0050	08/27/24 13:52	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	08/27/24 13:52	
EPA 6020B	Molybdenum	0.0039J	mg/L	0.010	08/27/24 13:52	
SM 2540C-2015	Total Dissolved Solids	67.0	mg/L	25.0	08/22/24 13:25	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	08/23/24 04:01	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	08/23/24 04:01	
92748851011	**YAT-YGWA-1D**					
EPA 6010D	Calcium	17.7	mg/L	1.0	08/26/24 13:22	
EPA 6020B	Antimony	0.00088J	mg/L	0.0030	08/27/24 14:07	
EPA 6020B	Arsenic	0.00099J	mg/L	0.0050	08/27/24 14:07	
EPA 6020B	Barium	0.0061	mg/L	0.0050	08/27/24 14:07	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	08/27/24 14:07	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	08/27/24 14:07	
SM 2540C-2015	Total Dissolved Solids	140	mg/L	25.0	08/22/24 13:29	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	08/23/24 04:15	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748851011	**YAT-YGWA-1D**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.066J	mg/L	0.10	08/23/24 04:15	
EPA 300.0 Rev 2.1 1993	Sulfate	12.2	mg/L	1.0	08/23/24 04:15	
92748851012	**YAT-YGWA-2I**					
EPA 6010D	Calcium	30.4	mg/L	1.0	08/26/24 13:25	
EPA 6020B	Barium	0.0033J	mg/L	0.0050	08/27/24 14:11	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	08/27/24 14:11	
SM 2540C-2015	Total Dissolved Solids	184	mg/L	25.0	08/22/24 13:29	
EPA 300.0 Rev 2.1 1993	Chloride	0.91J	mg/L	1.0	08/23/24 04:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	08/23/24 04:29	
EPA 300.0 Rev 2.1 1993	Sulfate	21.3	mg/L	1.0	08/23/24 04:29	
92748851014	**YAT-UGRD-FD-1**					
EPA 6010D	Calcium	1.9	mg/L	1.0	08/26/24 13:33	
EPA 6020B	Barium	0.0073	mg/L	0.0050	08/27/24 14:18	
EPA 6020B	Cobalt	0.00036J	mg/L	0.0050	08/27/24 14:18	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	08/27/24 14:18	
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	08/27/24 14:18	
SM 2540C-2015	Total Dissolved Solids	59.0	mg/L	25.0	08/22/24 13:29	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	08/23/24 06:01	
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	08/23/24 06:01	
92748851015	**YAT-YGWA-5D**					
EPA 6010D	Calcium	29.1	mg/L	1.0	08/26/24 13:44	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	08/27/24 14:51	
EPA 6020B	Barium	0.0066	mg/L	0.0050	08/27/24 14:51	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	08/27/24 14:51	
EPA 6020B	Molybdenum	0.00074J	mg/L	0.010	08/27/24 14:51	
SM 2540C-2015	Total Dissolved Solids	212	mg/L	25.0	08/22/24 13:29	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	08/23/24 06:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.10	08/23/24 06:15	
EPA 300.0 Rev 2.1 1993	Sulfate	4.3	mg/L	1.0	08/23/24 06:15	
92748851016	**YAT-YGWA-17S**					
EPA 6010D	Calcium	3.5	mg/L	1.0	08/26/24 13:47	
EPA 6020B	Barium	0.016	mg/L	0.0050	08/27/24 14:54	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	08/27/24 14:54	
SM 2540C-2015	Total Dissolved Solids	86.0	mg/L	25.0	08/22/24 13:30	
EPA 300.0 Rev 2.1 1993	Chloride	12.7	mg/L	1.0	08/23/24 06:30	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	08/23/24 06:30	
92748851017	**YAT-YGWA-18I**					
EPA 6010D	Calcium	5.9	mg/L	1.0	08/26/24 13:51	
EPA 6020B	Barium	0.019	mg/L	0.0050	08/27/24 14:58	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	08/27/24 14:58	
SM 2540C-2015	Total Dissolved Solids	128	mg/L	25.0	08/22/24 13:30	
EPA 300.0 Rev 2.1 1993	Chloride	7.8	mg/L	1.0	08/23/24 06:44	
EPA 300.0 Rev 2.1 1993	Sulfate	0.74J	mg/L	1.0	08/23/24 06:44	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748851020	**YAT-UGRD-EB-2**					
SM 2540C-2015	Total Dissolved Solids	25.0	mg/L	25.0	08/22/24 13:30	
92748851021	**YAT-UGRD-FB-2**					
SM 2540C-2015	Total Dissolved Solids	29.0	mg/L	25.0	08/23/24 13:38	
92748851022	**YAT-YGWA-39**					
EPA 6010D	Calcium	19.7	mg/L	1.0	08/26/24 14:39	M1
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	08/30/24 17:21	B
EPA 6020B	Barium	0.030	mg/L	0.0050	08/30/24 17:21	
EPA 6020B	Boron	0.13	mg/L	0.040	08/30/24 17:21	
EPA 6020B	Cobalt	0.00048J	mg/L	0.0050	08/30/24 17:21	
EPA 6020B	Lithium	0.0055J	mg/L	0.030	08/30/24 17:21	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	08/30/24 17:21	
SM 2540C-2015	Total Dissolved Solids	235	mg/L	25.0	08/27/24 16:42	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	08/23/24 02:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.083J	mg/L	0.10	08/23/24 02:55	
EPA 300.0 Rev 2.1 1993	Sulfate	6.6	mg/L	1.0	08/23/24 02:55	
92748851023	**YAT-YGWA-40**					
EPA 6010D	Calcium	6.0	mg/L	1.0	08/26/24 14:52	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	08/30/24 17:25	B
EPA 6020B	Barium	0.033	mg/L	0.0050	08/30/24 17:25	
EPA 6020B	Beryllium	0.00023J	mg/L	0.00050	08/30/24 17:25	
EPA 6020B	Boron	0.061	mg/L	0.040	08/30/24 17:25	
EPA 7470A	Mercury	0.00033	mg/L	0.00020	09/05/24 14:09	
SM 2540C-2015	Total Dissolved Solids	94.0	mg/L	25.0	08/27/24 16:44	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	08/23/24 03:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	08/23/24 03:09	
EPA 300.0 Rev 2.1 1993	Sulfate	18.2	mg/L	1.0	08/23/24 03:09	
92748851024	**YAT-YGWA-18S**					
EPA 6010D	Calcium	0.96J	mg/L	1.0	08/26/24 14:56	
EPA 6020B	Barium	0.015	mg/L	0.0050	08/30/24 17:29	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	08/30/24 17:29	
SM 2540C-2015	Total Dissolved Solids	79.0	mg/L	25.0	08/27/24 16:44	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	08/23/24 03:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	08/23/24 03:24	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	08/23/24 03:24	
92748851026	**YAT-UGRD-FD-2**					
EPA 6010D	Calcium	0.96J	mg/L	1.0	08/26/24 15:11	
EPA 6020B	Barium	0.015	mg/L	0.0050	08/30/24 17:37	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	08/30/24 17:37	
SM 2540C-2015	Total Dissolved Solids	67.0	mg/L	25.0	08/27/24 16:45	
EPA 300.0 Rev 2.1 1993	Chloride	7.3	mg/L	1.0	08/23/24 03:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	08/23/24 03:38	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	08/23/24 03:38	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-30I **Lab ID: 92748851001** Collected: 08/20/24 17:37 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.4**	mg/L	1.0	0.12	1	08/24/24 10:30	08/25/24 21:31	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:12	7440-38-2	
Barium	**0.0067**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:12	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:12	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**69.0**	mg/L	25.0	25.0	1		08/22/24 13:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.4**	mg/L	1.0	0.60	1		08/23/24 04:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 04:47	16984-48-8	
Sulfate	**0.74J**	mg/L	1.0	0.50	1		08/23/24 04:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-14S **Lab ID: 92748851002** Collected: 08/20/24 16:18 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.3**	mg/L	1.0	0.12	1	08/24/24 10:30	08/25/24 21:34	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:16	7440-38-2	
Barium	**0.0075**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:16	7440-39-3	
Beryllium	**0.00021J**	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:16	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:16	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**81.0**	mg/L	25.0	25.0	1		08/22/24 13:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		08/23/24 00:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 00:48	16984-48-8	
Sulfate	**7.6**	mg/L	1.0	0.50	1		08/23/24 00:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-3I **Lab ID: 92748851003** Collected: 08/20/24 14:30 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**23.4**	mg/L	1.0	0.12	1	08/24/24 10:30	08/25/24 21:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:20	7440-38-2	
Barium	**0.0027J**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:20	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:20	7439-92-1	
Lithium	**0.017J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:20	7439-93-2	
Molybdenum	**0.0058J**	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**179**	mg/L	25.0	25.0	1		08/22/24 13:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.0**	mg/L	1.0	0.60	1		08/23/24 01:32	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		08/23/24 01:32	16984-48-8	
Sulfate	**13.7**	mg/L	1.0	0.50	1		08/23/24 01:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-3D **Lab ID: 92748851004** Collected: 08/20/24 13:02 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**30.0**	mg/L	1.0	0.12	1	08/24/24 10:30	08/25/24 21:42	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:24	7440-38-2	
Barium	**0.0044J**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:24	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:24	7439-92-1	
Lithium	**0.021J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:24	7439-93-2	
Molybdenum	**0.012**	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**164**	mg/L	25.0	25.0	1		08/22/24 13:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		08/23/24 02:34	16887-00-6	
Fluoride	**0.45**	mg/L	0.10	0.050	1		08/23/24 02:34	16984-48-8	
Sulfate	**7.7**	mg/L	1.0	0.50	1		08/23/24 02:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-21I **Lab ID: 92748851005** Collected: 08/20/24 16:40 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**6.9**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 12:43	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:35	7440-38-2	
Barium	**0.0083**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:35	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:35	7440-47-3	
Cobalt	**0.020**	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:35	7439-92-1	
Lithium	**0.0057J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**143**	mg/L	25.0	25.0	1		08/22/24 13:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.3**	mg/L	1.0	0.60	1		08/23/24 02:49	16887-00-6	
Fluoride	**0.062J**	mg/L	0.10	0.050	1		08/23/24 02:49	16984-48-8	
Sulfate	**4.0**	mg/L	1.0	0.50	1		08/23/24 02:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-4I **Lab ID: 92748851006** Collected: 08/20/24 12:00 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.1**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:03	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:38	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:38	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:38	7440-42-8	
Cadmium	**0.00019J**	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:38	7439-92-1	
Lithium	**0.011J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**128**	mg/L	25.0	25.0	1		08/22/24 13:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.2**	mg/L	1.0	0.60	1		08/23/24 03:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 03:03	16984-48-8	
Sulfate	**8.7**	mg/L	1.0	0.50	1		08/23/24 03:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-5I **Lab ID: 92748851007** Collected: 08/20/24 09:59 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**3.2**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:07	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:42	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:42	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:42	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**108**	mg/L	25.0	25.0	1		08/22/24 13:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		08/23/24 03:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 03:17	16984-48-8	
Sulfate	**2.6**	mg/L	1.0	0.50	1		08/23/24 03:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-20S **Lab ID: 92748851008** Collected: 08/20/24 14:30 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.8**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:10	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:46	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:46	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**75.0**	mg/L	25.0	25.0	1		08/22/24 13:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.0**	mg/L	1.0	0.60	1		08/23/24 03:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 03:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/23/24 03:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-47 **Lab ID: 92748851009** Collected: 08/20/24 17:35 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**10**	mg/L	5.0	0.61	5	08/24/24 10:30	08/27/24 20:20	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:49	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:49	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:49	7440-47-3	
Cobalt	**0.00034J**	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:49	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**155**	mg/L	25.0	25.0	1		08/22/24 13:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.6**	mg/L	1.0	0.60	1		08/23/24 03:46	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 03:46	16984-48-8	
Sulfate	**53.9**	mg/L	1.0	0.50	1		08/23/24 03:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-1I **Lab ID: 92748851010** Collected: 08/20/24 10:25 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.9**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:18	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 13:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 13:52	7440-38-2	
Barium	**0.0072**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 13:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 13:52	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 13:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 13:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 13:52	7440-47-3	
Cobalt	**0.00033J**	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 13:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 13:52	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 13:52	7439-93-2	
Molybdenum	**0.0039J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 13:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 13:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 13:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**67.0**	mg/L	25.0	25.0	1		08/22/24 13:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		08/23/24 04:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 04:01	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.50	1		08/23/24 04:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-1D **Lab ID: 92748851011** Collected: 08/20/24 12:30 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**17.7**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:22	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00088J**	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:07	7440-36-0	
Arsenic	**0.00099J**	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:07	7440-38-2	
Barium	**0.0061**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:07	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:07	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:07	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**140**	mg/L	25.0	25.0	1		08/22/24 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.0**	mg/L	1.0	0.60	1		08/23/24 04:15	16887-00-6	
Fluoride	**0.066J**	mg/L	0.10	0.050	1		08/23/24 04:15	16984-48-8	
Sulfate	**12.2**	mg/L	1.0	0.50	1		08/23/24 04:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-2I **Lab ID: 92748851012** Collected: 08/20/24 15:15 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**30.4**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:25	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:11	7440-38-2	
Barium	**0.0033J**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:11	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:11	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**184**	mg/L	25.0	25.0	1		08/22/24 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.91J**	mg/L	1.0	0.60	1		08/23/24 04:29	16887-00-6	
Fluoride	**0.085J**	mg/L	0.10	0.050	1		08/23/24 04:29	16984-48-8	
Sulfate	**21.3**	mg/L	1.0	0.50	1		08/23/24 04:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-FB-1 **Lab ID: 92748851013** Collected: 08/20/24 15:30 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:29	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:15	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:15	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/22/24 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/22/24 01:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/22/24 01:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/22/24 01:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-FD-1 **Lab ID: 92748851014** Collected: 08/20/24 00:00 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.9**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:33	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:18	7440-38-2	
Barium	**0.0073**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:18	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:18	7440-47-3	
Cobalt	**0.00036J**	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:18	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:18	7439-93-2	
Molybdenum	**0.0038J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**59.0**	mg/L	25.0	25.0	1		08/22/24 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		08/23/24 06:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 06:01	16984-48-8	
Sulfate	**4.8**	mg/L	1.0	0.50	1		08/23/24 06:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-5D **Lab ID: 92748851015** Collected: 08/20/24 09:57 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**29.1**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:44	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:51	7440-36-0	
Arsenic	**0.0012J**	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:51	7440-38-2	
Barium	**0.0066**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:51	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:51	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:51	7439-93-2	
Molybdenum	**0.00074J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**212**	mg/L	25.0	25.0	1		08/22/24 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.4**	mg/L	1.0	0.60	1		08/23/24 06:15	16887-00-6	
Fluoride	**0.058J**	mg/L	0.10	0.050	1		08/23/24 06:15	16984-48-8	
Sulfate	**4.3**	mg/L	1.0	0.50	1		08/23/24 06:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-17S **Lab ID: 92748851016** Collected: 08/20/24 12:45 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**3.5**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:47	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:54	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:54	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:54	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 13:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**86.0**	mg/L	25.0	25.0	1		08/22/24 13:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.7**	mg/L	1.0	0.60	1		08/23/24 06:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 06:30	16984-48-8	
Sulfate	**4.6**	mg/L	1.0	0.50	1		08/23/24 06:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-18I **Lab ID: 92748851017** Collected: 08/20/24 14:22 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.9**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:51	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:58	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:58	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:58	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 13:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**128**	mg/L	25.0	25.0	1		08/22/24 13:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.8**	mg/L	1.0	0.60	1		08/23/24 06:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 06:44	16984-48-8	
Sulfate	**0.74J**	mg/L	1.0	0.50	1		08/23/24 06:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-EB-2 **Lab ID: 92748851020** Collected: 08/20/24 18:57 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:55	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 15:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 15:02	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 15:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 15:02	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 15:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 15:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 15:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 15:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 15:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 15:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 15:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 15:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 15:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 13:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**25.0**	mg/L	25.0	25.0	1		08/22/24 13:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/22/24 01:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/22/24 01:48	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/22/24 01:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-FB-2 **Lab ID: 92748851021** Collected: 08/20/24 10:30 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:59	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 15:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 15:05	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 15:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 15:05	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 15:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 15:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 15:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 15:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 15:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 15:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 15:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 15:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 15:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 13:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**29.0**	mg/L	25.0	25.0	1		08/23/24 13:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/21/24 22:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/21/24 22:58	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/21/24 22:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-39 **Lab ID: 92748851022** Collected: 08/21/24 12:40 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**19.7**	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 14:39	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:21	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:21	7440-38-2	B
Barium	**0.030**	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:21	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:21	7440-47-3	
Cobalt	**0.00048J**	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:21	7439-92-1	
Lithium	**0.0055J**	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:21	7439-93-2	
Molybdenum	**0.0068J**	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 13:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**235**	mg/L	25.0	25.0	1		08/27/24 16:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		08/23/24 02:55	16887-00-6	
Fluoride	**0.083J**	mg/L	0.10	0.050	1		08/23/24 02:55	16984-48-8	
Sulfate	**6.6**	mg/L	1.0	0.50	1		08/23/24 02:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-40 **Lab ID: 92748851023** Collected: 08/21/24 15:15 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**6.0**	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 14:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:25	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:25	7440-38-2	B
Barium	**0.033**	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:25	7440-39-3	
Beryllium	**0.00023J**	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:25	7440-41-7	
Boron	**0.061**	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:25	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00033**	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**94.0**	mg/L	25.0	25.0	1		08/27/24 16:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		08/23/24 03:09	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		08/23/24 03:09	16984-48-8	
Sulfate	**18.2**	mg/L	1.0	0.50	1		08/23/24 03:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-18S **Lab ID: 92748851024** Collected: 08/21/24 09:45 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**0.96J**	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 14:56	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:29	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:29	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:29	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**79.0**	mg/L	25.0	25.0	1		08/27/24 16:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.4**	mg/L	1.0	0.60	1		08/23/24 03:24	16887-00-6	
Fluoride	**0.051J**	mg/L	0.10	0.050	1		08/23/24 03:24	16984-48-8	
Sulfate	**1.1**	mg/L	1.0	0.50	1		08/23/24 03:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-EB-1 **Lab ID: 92748851025** Collected: 08/21/24 15:25 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 15:07	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:33	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:33	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/27/24 16:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/23/24 00:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 00:55	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/23/24 00:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-FD-2 **Lab ID: 92748851026** Collected: 08/21/24 00:00 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**0.96J**	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 15:11	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:37	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:37	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:37	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**67.0**	mg/L	25.0	25.0	1		08/27/24 16:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.3**	mg/L	1.0	0.60	1		08/23/24 03:38	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		08/23/24 03:38	16984-48-8	
Sulfate	**1.1**	mg/L	1.0	0.50	1		08/23/24 03:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 878060 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004

METHOD BLANK: 4522967 Matrix: Water
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/25/24 20:03	

LABORATORY CONTROL SAMPLE: 4522968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522969 4522970

Parameter	Units	92748202015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	96.0	1	1	98.9	101	285	536	75-125	3	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 878061
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021

METHOD BLANK: 4522971 Matrix: Water
Associated Lab Samples: 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/24 12:36	

LABORATORY CONTROL SAMPLE: 4522972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522973 4522974

Parameter	Units	92748851005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	6.9	1	1	7.9	8.2	101	133	75-125	4	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 878071
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

METHOD BLANK: 4523026 Matrix: Water
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/24 14:29	

LABORATORY CONTROL SAMPLE: 4523027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523028 4523029

Parameter	Units	92748851022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	19.7	1	1	21.1	20.6	149	99	75-125	2	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877885
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009

METHOD BLANK: 4521933 Matrix: Water
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/26/24 17:02	
Arsenic	mg/L	ND	0.0050	0.00084	08/26/24 17:02	
Barium	mg/L	ND	0.0050	0.00047	08/26/24 17:02	
Beryllium	mg/L	ND	0.00050	0.000094	08/26/24 17:02	
Boron	mg/L	ND	0.040	0.012	08/26/24 17:02	
Cadmium	mg/L	ND	0.00050	0.00010	08/26/24 17:02	
Chromium	mg/L	ND	0.0050	0.0019	08/26/24 17:02	
Cobalt	mg/L	ND	0.0050	0.00032	08/26/24 17:02	
Lead	mg/L	ND	0.0010	0.00016	08/26/24 17:02	
Lithium	mg/L	ND	0.030	0.0016	08/26/24 17:02	
Molybdenum	mg/L	ND	0.010	0.00062	08/26/24 17:02	
Selenium	mg/L	ND	0.0050	0.00096	08/26/24 17:02	
Thallium	mg/L	ND	0.0010	0.00038	08/26/24 17:02	

LABORATORY CONTROL SAMPLE: 4521934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521935 4521936

Parameter	Units	92749202001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.098	97	97	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521935 4521936

Parameter	Units	92749202001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.11	96	98	75-125	2	20	
Barium	mg/L	163 ug/L	0.1	0.1	0.25	0.25	87	91	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	3	20	
Boron	mg/L	165 ug/L	1	1	1.1	1.1	90	93	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.096	0.096	94	95	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.094	0.098	93	97	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	100	100	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.095	94	95	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877936
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021

METHOD BLANK: 4522328 Matrix: Water
Associated Lab Samples: 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/27/24 13:45	
Arsenic	mg/L	ND	0.0050	0.00084	08/27/24 13:45	
Barium	mg/L	ND	0.0050	0.00047	08/27/24 13:45	
Beryllium	mg/L	ND	0.00050	0.000094	08/27/24 13:45	
Boron	mg/L	ND	0.040	0.012	08/27/24 13:45	
Cadmium	mg/L	ND	0.00050	0.00010	08/27/24 13:45	
Chromium	mg/L	ND	0.0050	0.0019	08/27/24 13:45	
Cobalt	mg/L	ND	0.0050	0.00032	08/27/24 13:45	
Lead	mg/L	ND	0.0010	0.00016	08/27/24 13:45	
Lithium	mg/L	ND	0.030	0.0016	08/27/24 13:45	
Molybdenum	mg/L	ND	0.010	0.00062	08/27/24 13:45	
Selenium	mg/L	ND	0.0050	0.00096	08/27/24 13:45	
Thallium	mg/L	ND	0.0010	0.00038	08/27/24 13:45	

LABORATORY CONTROL SAMPLE: 4522329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.096	96	80-120	
Arsenic	mg/L	0.1	0.091	91	80-120	
Barium	mg/L	0.1	0.092	92	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.093	93	80-120	
Chromium	mg/L	0.1	0.093	93	80-120	
Cobalt	mg/L	0.1	0.093	93	80-120	
Lead	mg/L	0.1	0.093	93	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.092	92	80-120	
Thallium	mg/L	0.1	0.090	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522330 4522331

Parameter	Units	92748851010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522330 4522331

Parameter	Units	92748851010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Barium	mg/L	0.0072	0.1	0.1	0.10	0.099	93	92	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.088	0.090	88	90	75-125	2	20	
Boron	mg/L	ND	1	1	0.88	0.88	87	87	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.092	0.093	92	93	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.091	0.093	91	93	75-125	2	20	
Cobalt	mg/L	0.00033J	0.1	0.1	0.090	0.091	89	90	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.091	0.091	91	90	75-125	0	20	
Lithium	mg/L	0.0023J	0.1	0.1	0.090	0.091	88	89	75-125	2	20	
Molybdenum	mg/L	0.0039J	0.1	0.1	0.097	0.098	93	94	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.089	0.088	88	88	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 878080
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

METHOD BLANK: 4523058 Matrix: Water
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/30/24 17:08	
Arsenic	mg/L	0.0019J	0.0050	0.00084	08/30/24 17:08	
Barium	mg/L	ND	0.0050	0.00047	08/30/24 17:08	
Beryllium	mg/L	ND	0.00050	0.000094	08/30/24 17:08	
Boron	mg/L	ND	0.040	0.012	08/30/24 17:08	
Cadmium	mg/L	ND	0.00050	0.00010	08/30/24 17:08	
Chromium	mg/L	ND	0.0050	0.0019	08/30/24 17:08	
Cobalt	mg/L	ND	0.0050	0.00032	08/30/24 17:08	
Lead	mg/L	ND	0.0010	0.00016	08/30/24 17:08	
Lithium	mg/L	ND	0.030	0.0016	08/30/24 17:08	
Molybdenum	mg/L	ND	0.010	0.00062	08/30/24 17:08	
Selenium	mg/L	ND	0.0050	0.00096	08/30/24 17:08	
Thallium	mg/L	ND	0.0010	0.00038	08/30/24 17:08	

LABORATORY CONTROL SAMPLE: 4523059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.11	105	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523068 4523069

Parameter	Units	92749319006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.10	99	104	75-125	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523068 4523069

Parameter	Units	92749319006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	28.8 ug/L	0.1	0.1	0.13	0.14	99	113	75-125	10	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Boron	mg/L	ND	1	1	0.99	0.98	99	98	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20	
Lithium	mg/L	ND	0.1	0.1	0.095	0.099	94	98	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.090	0.094	90	94	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 879197 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021, 92748851022

METHOD BLANK: 4528105 Matrix: Water

Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021, 92748851022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/05/24 12:01	

LABORATORY CONTROL SAMPLE: 4528106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4528107 4528108

Parameter	Units	92748851001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0029	104	116	75-125	11	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 880405
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851023, 92748851024, 92748851025, 92748851026

METHOD BLANK: 4534210 Matrix: Water
Associated Lab Samples: 92748851023, 92748851024, 92748851025, 92748851026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/05/24 13:17	

LABORATORY CONTROL SAMPLE: 4534211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4534212 4534213

Parameter	Units	92748851023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00033	0.0025	0.0025	0.0028	0.0031	99	111	75-125	10	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877500
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020

METHOD BLANK: 4519927 Matrix: Water
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/22/24 13:19	

LABORATORY CONTROL SAMPLE: 4519928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	414	104	80-120	

SAMPLE DUPLICATE: 4519929

Parameter	Units	92748650029 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	107	108	1	10	

SAMPLE DUPLICATE: 4519930

Parameter	Units	92748851009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	155	153	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877828
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851021

METHOD BLANK: 4521675 Matrix: Water
Associated Lab Samples: 92748851021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/23/24 13:37	

LABORATORY CONTROL SAMPLE: 4521676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	80-120	

SAMPLE DUPLICATE: 4521677

Parameter	Units	92748851021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	29.0	29.0	0	10	

SAMPLE DUPLICATE: 4521678

Parameter	Units	92748837001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	146	145	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 878526 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

METHOD BLANK: 4524815 Matrix: Water
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/27/24 16:40	

LABORATORY CONTROL SAMPLE: 4524816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	80-120	

SAMPLE DUPLICATE: 4524817

Parameter	Units	92749074006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	126	122	3	10	

SAMPLE DUPLICATE: 4524818

Parameter	Units	92748851022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	235	234	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877309
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748851021

METHOD BLANK: 4518928 Matrix: Water
Associated Lab Samples: 92748851021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/21/24 21:46	
Fluoride	mg/L	ND	0.10	0.050	08/21/24 21:46	
Sulfate	mg/L	ND	1.0	0.50	08/21/24 21:46	

LABORATORY CONTROL SAMPLE: 4518929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518930 4518931

Parameter	Units	92748851021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.1	52.6	98	105	90-110	7	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	100	103	90-110	3	10	
Sulfate	mg/L	ND	50	50	49.1	52.6	98	105	90-110	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518932 4518933

Parameter	Units	92748744026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.1	50	50	63.7	67.3	99	106	90-110	5	10	
Fluoride	mg/L	0.056J	2.5	2.5	2.5	2.7	96	104	90-110	8	10	
Sulfate	mg/L	0.85J	50	50	50.2	53.8	99	106	90-110	7	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877312
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748851013, 92748851020

METHOD BLANK: 4518972 Matrix: Water
Associated Lab Samples: 92748851013, 92748851020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/22/24 00:36	
Fluoride	mg/L	ND	0.10	0.050	08/22/24 00:36	
Sulfate	mg/L	ND	1.0	0.50	08/22/24 00:36	

LABORATORY CONTROL SAMPLE: 4518973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.0	104	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518974 4518975

Parameter	Units	92748876001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.3	50	50	64.1	64.0	102	101	90-110	0	10	
Fluoride	mg/L	0.23	2.5	2.5	2.8	2.8	103	103	90-110	1	10	
Sulfate	mg/L	4.0	50	50	56.4	56.2	105	104	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518976 4518977

Parameter	Units	92748776005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	37.7	50	50	88.6	88.6	102	102	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	104	104	90-110	0	10	
Sulfate	mg/L	3.8	50	50	57.7	57.6	108	108	90-110	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877646
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748851001

METHOD BLANK: 4521073 Matrix: Water
Associated Lab Samples: 92748851001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/22/24 22:10	
Fluoride	mg/L	ND	0.10	0.050	08/22/24 22:10	
Sulfate	mg/L	ND	1.0	0.50	08/22/24 22:10	

LABORATORY CONTROL SAMPLE: 4521074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521075 4521076

Parameter	Units	92749002001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	49.6	50	50	96.7	99.9	94	101	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	103	109	90-110	6	10	
Sulfate	mg/L	9.0	50	50	58.1	61.0	98	104	90-110	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521077 4521078

Parameter	Units	92748775002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.8	50	50	67.6	69.1	100	103	90-110	2	10	
Fluoride	mg/L	2.6	2.5	2.5	4.9	5.0	93	95	90-110	1	10	
Sulfate	mg/L	76.2	50	50	116	117	80	82	90-110	1	10	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877651
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851014, 92748851015, 92748851016, 92748851017

METHOD BLANK: 4521093 Matrix: Water
Associated Lab Samples: 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851014, 92748851015, 92748851016, 92748851017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/22/24 23:36	
Fluoride	mg/L	ND	0.10	0.050	08/22/24 23:36	
Sulfate	mg/L	ND	1.0	0.50	08/22/24 23:36	

LABORATORY CONTROL SAMPLE: 4521094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.0	104	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.4	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521095 4521096

Parameter	Units	92748851002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5	50	50	55.1	55.8	101	103	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	99	90-110	1	10	
Sulfate	mg/L	7.6	50	50	58.3	59.0	101	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521097 4521098

Parameter	Units	92748851012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.91J	50	50	50.6	53.9	99	106	90-110	6	10	
Fluoride	mg/L	0.085J	2.5	2.5	2.6	2.7	99	106	90-110	6	10	
Sulfate	mg/L	21.3	50	50	70.6	73.8	99	105	90-110	5	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877665
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

METHOD BLANK: 4521170 Matrix: Water
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/22/24 23:58	
Fluoride	mg/L	ND	0.10	0.050	08/22/24 23:58	
Sulfate	mg/L	ND	1.0	0.50	08/22/24 23:58	

LABORATORY CONTROL SAMPLE: 4521171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	51.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521172 4521173

Parameter	Units	92749199002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.8	50	50	65.9	67.2	100	103	90-110	2	10	
Fluoride	mg/L	0.098J	2.5	2.5	2.7	2.8	105	108	90-110	3	10	
Sulfate	mg/L	83.5	50	50	114	117	61	67	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521174 4521175

Parameter	Units	92749078002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.5	50	50	53.6	54.6	100	102	90-110	2	10	
Fluoride	mg/L	0.081J	2.5	2.5	2.5	2.6	97	99	90-110	3	10	
Sulfate	mg/L	37.3	50	50	87.2	88.2	100	102	90-110	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748851001	**YAT-YGWA-30I**	EPA 3010A	878060	EPA 6010D	878093
92748851002	**YAT-YGWA-14S**	EPA 3010A	878060	EPA 6010D	878093
92748851003	**YAT-YGWA-3I**	EPA 3010A	878060	EPA 6010D	878093
92748851004	**YAT-YGWA-3D**	EPA 3010A	878060	EPA 6010D	878093
92748851005	**YAT-YGWA-21I**	EPA 3010A	878061	EPA 6010D	878094
92748851006	**YAT-YGWA-4I**	EPA 3010A	878061	EPA 6010D	878094
92748851007	**YAT-YGWA-5I**	EPA 3010A	878061	EPA 6010D	878094
92748851008	**YAT-YGWA-20S**	EPA 3010A	878061	EPA 6010D	878094
92748851009	**YAT-YGWA-47**	EPA 3010A	878061	EPA 6010D	878094
92748851010	**YAT-YGWA-1I**	EPA 3010A	878061	EPA 6010D	878094
92748851011	**YAT-YGWA-1D**	EPA 3010A	878061	EPA 6010D	878094
92748851012	**YAT-YGWA-2I**	EPA 3010A	878061	EPA 6010D	878094
92748851013	**YAT-UGRD-FB-1**	EPA 3010A	878061	EPA 6010D	878094
92748851014	**YAT-UGRD-FD-1**	EPA 3010A	878061	EPA 6010D	878094
92748851015	**YAT-YGWA-5D**	EPA 3010A	878061	EPA 6010D	878094
92748851016	**YAT-YGWA-17S**	EPA 3010A	878061	EPA 6010D	878094
92748851017	**YAT-YGWA-18I**	EPA 3010A	878061	EPA 6010D	878094
92748851020	**YAT-UGRD-EB-2**	EPA 3010A	878061	EPA 6010D	878094
92748851021	**YAT-UGRD-FB-2**	EPA 3010A	878061	EPA 6010D	878094
92748851022	**YAT-YGWA-39**	EPA 3010A	878071	EPA 6010D	878097
92748851023	**YAT-YGWA-40**	EPA 3010A	878071	EPA 6010D	878097
92748851024	**YAT-YGWA-18S**	EPA 3010A	878071	EPA 6010D	878097
92748851025	**YAT-UGRD-EB-1**	EPA 3010A	878071	EPA 6010D	878097
92748851026	**YAT-UGRD-FD-2**	EPA 3010A	878071	EPA 6010D	878097
92748851001	**YAT-YGWA-30I**	EPA 3005A	877885	EPA 6020B	877993
92748851002	**YAT-YGWA-14S**	EPA 3005A	877885	EPA 6020B	877993
92748851003	**YAT-YGWA-3I**	EPA 3005A	877885	EPA 6020B	877993
92748851004	**YAT-YGWA-3D**	EPA 3005A	877885	EPA 6020B	877993
92748851005	**YAT-YGWA-21I**	EPA 3005A	877885	EPA 6020B	877993
92748851006	**YAT-YGWA-4I**	EPA 3005A	877885	EPA 6020B	877993
92748851007	**YAT-YGWA-5I**	EPA 3005A	877885	EPA 6020B	877993
92748851008	**YAT-YGWA-20S**	EPA 3005A	877885	EPA 6020B	877993
92748851009	**YAT-YGWA-47**	EPA 3005A	877885	EPA 6020B	877993
92748851010	**YAT-YGWA-1I**	EPA 3005A	877936	EPA 6020B	878012
92748851011	**YAT-YGWA-1D**	EPA 3005A	877936	EPA 6020B	878012
92748851012	**YAT-YGWA-2I**	EPA 3005A	877936	EPA 6020B	878012
92748851013	**YAT-UGRD-FB-1**	EPA 3005A	877936	EPA 6020B	878012
92748851014	**YAT-UGRD-FD-1**	EPA 3005A	877936	EPA 6020B	878012
92748851015	**YAT-YGWA-5D**	EPA 3005A	877936	EPA 6020B	878012
92748851016	**YAT-YGWA-17S**	EPA 3005A	877936	EPA 6020B	878012
92748851017	**YAT-YGWA-18I**	EPA 3005A	877936	EPA 6020B	878012
92748851020	**YAT-UGRD-EB-2**	EPA 3005A	877936	EPA 6020B	878012
92748851021	**YAT-UGRD-FB-2**	EPA 3005A	877936	EPA 6020B	878012
92748851022	**YAT-YGWA-39**	EPA 3005A	878080	EPA 6020B	878102
92748851023	**YAT-YGWA-40**	EPA 3005A	878080	EPA 6020B	878102
92748851024	**YAT-YGWA-18S**	EPA 3005A	878080	EPA 6020B	878102

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748851025	**YAT-UGRD-EB-1**	EPA 3005A	878080	EPA 6020B	878102
92748851026	**YAT-UGRD-FD-2**	EPA 3005A	878080	EPA 6020B	878102
92748851001	**YAT-YGWA-30I**	EPA 7470A	879197	EPA 7470A	880489
92748851002	**YAT-YGWA-14S**	EPA 7470A	879197	EPA 7470A	880489
92748851003	**YAT-YGWA-3I**	EPA 7470A	879197	EPA 7470A	880489
92748851004	**YAT-YGWA-3D**	EPA 7470A	879197	EPA 7470A	880489
92748851005	**YAT-YGWA-21I**	EPA 7470A	879197	EPA 7470A	880489
92748851006	**YAT-YGWA-4I**	EPA 7470A	879197	EPA 7470A	880489
92748851007	**YAT-YGWA-5I**	EPA 7470A	879197	EPA 7470A	880489
92748851008	**YAT-YGWA-20S**	EPA 7470A	879197	EPA 7470A	880489
92748851009	**YAT-YGWA-47**	EPA 7470A	879197	EPA 7470A	880489
92748851010	**YAT-YGWA-1I**	EPA 7470A	879197	EPA 7470A	880489
92748851011	**YAT-YGWA-1D**	EPA 7470A	879197	EPA 7470A	880489
92748851012	**YAT-YGWA-2I**	EPA 7470A	879197	EPA 7470A	880489
92748851013	**YAT-UGRD-FB-1**	EPA 7470A	879197	EPA 7470A	880489
92748851014	**YAT-UGRD-FD-1**	EPA 7470A	879197	EPA 7470A	880489
92748851015	**YAT-YGWA-5D**	EPA 7470A	879197	EPA 7470A	880489
92748851016	**YAT-YGWA-17S**	EPA 7470A	879197	EPA 7470A	880489
92748851017	**YAT-YGWA-18I**	EPA 7470A	879197	EPA 7470A	880489
92748851020	**YAT-UGRD-EB-2**	EPA 7470A	879197	EPA 7470A	880489
92748851021	**YAT-UGRD-FB-2**	EPA 7470A	879197	EPA 7470A	880489
92748851022	**YAT-YGWA-39**	EPA 7470A	879197	EPA 7470A	880489
92748851023	**YAT-YGWA-40**	EPA 7470A	880405	EPA 7470A	880509
92748851024	**YAT-YGWA-18S**	EPA 7470A	880405	EPA 7470A	880509
92748851025	**YAT-UGRD-EB-1**	EPA 7470A	880405	EPA 7470A	880509
92748851026	**YAT-UGRD-FD-2**	EPA 7470A	880405	EPA 7470A	880509
92748851001	**YAT-YGWA-30I**	SM 2540C-2015	877500		
92748851002	**YAT-YGWA-14S**	SM 2540C-2015	877500		
92748851003	**YAT-YGWA-3I**	SM 2540C-2015	877500		
92748851004	**YAT-YGWA-3D**	SM 2540C-2015	877500		
92748851005	**YAT-YGWA-21I**	SM 2540C-2015	877500		
92748851006	**YAT-YGWA-4I**	SM 2540C-2015	877500		
92748851007	**YAT-YGWA-5I**	SM 2540C-2015	877500		
92748851008	**YAT-YGWA-20S**	SM 2540C-2015	877500		
92748851009	**YAT-YGWA-47**	SM 2540C-2015	877500		
92748851010	**YAT-YGWA-1I**	SM 2540C-2015	877500		
92748851011	**YAT-YGWA-1D**	SM 2540C-2015	877500		
92748851012	**YAT-YGWA-2I**	SM 2540C-2015	877500		
92748851013	**YAT-UGRD-FB-1**	SM 2540C-2015	877500		
92748851014	**YAT-UGRD-FD-1**	SM 2540C-2015	877500		
92748851015	**YAT-YGWA-5D**	SM 2540C-2015	877500		
92748851016	**YAT-YGWA-17S**	SM 2540C-2015	877500		
92748851017	**YAT-YGWA-18I**	SM 2540C-2015	877500		
92748851020	**YAT-UGRD-EB-2**	SM 2540C-2015	877500		
92748851021	**YAT-UGRD-FB-2**	SM 2540C-2015	877828		
92748851022	**YAT-YGWA-39**	SM 2540C-2015	878526		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748851023	**YAT-YGWA-40**	SM 2540C-2015	878526		
92748851024	**YAT-YGWA-18S**	SM 2540C-2015	878526		
92748851025	**YAT-UGRD-EB-1**	SM 2540C-2015	878526		
92748851026	**YAT-UGRD-FD-2**	SM 2540C-2015	878526		
92748851001	**YAT-YGWA-30I**	EPA 300.0 Rev 2.1 1993	877646		
92748851002	**YAT-YGWA-14S**	EPA 300.0 Rev 2.1 1993	877651		
92748851003	**YAT-YGWA-3I**	EPA 300.0 Rev 2.1 1993	877651		
92748851004	**YAT-YGWA-3D**	EPA 300.0 Rev 2.1 1993	877651		
92748851005	**YAT-YGWA-21I**	EPA 300.0 Rev 2.1 1993	877651		
92748851006	**YAT-YGWA-4I**	EPA 300.0 Rev 2.1 1993	877651		
92748851007	**YAT-YGWA-5I**	EPA 300.0 Rev 2.1 1993	877651		
92748851008	**YAT-YGWA-20S**	EPA 300.0 Rev 2.1 1993	877651		
92748851009	**YAT-YGWA-47**	EPA 300.0 Rev 2.1 1993	877651		
92748851010	**YAT-YGWA-1I**	EPA 300.0 Rev 2.1 1993	877651		
92748851011	**YAT-YGWA-1D**	EPA 300.0 Rev 2.1 1993	877651		
92748851012	**YAT-YGWA-2I**	EPA 300.0 Rev 2.1 1993	877651		
92748851013	**YAT-UGRD-FB-1**	EPA 300.0 Rev 2.1 1993	877312		
92748851014	**YAT-UGRD-FD-1**	EPA 300.0 Rev 2.1 1993	877651		
92748851015	**YAT-YGWA-5D**	EPA 300.0 Rev 2.1 1993	877651		
92748851016	**YAT-YGWA-17S**	EPA 300.0 Rev 2.1 1993	877651		
92748851017	**YAT-YGWA-18I**	EPA 300.0 Rev 2.1 1993	877651		
92748851020	**YAT-UGRD-EB-2**	EPA 300.0 Rev 2.1 1993	877312		
92748851021	**YAT-UGRD-FB-2**	EPA 300.0 Rev 2.1 1993	877309		
92748851022	**YAT-YGWA-39**	EPA 300.0 Rev 2.1 1993	877665		
92748851023	**YAT-YGWA-40**	EPA 300.0 Rev 2.1 1993	877665		
92748851024	**YAT-YGWA-18S**	EPA 300.0 Rev 2.1 1993	877665		
92748851025	**YAT-UGRD-EB-1**	EPA 300.0 Rev 2.1 1993	877665		
92748851026	**YAT-UGRD-FD-2**	EPA 300.0 Rev 2.1 1993	877665		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92748851

92748851

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G	8/20/24	1737	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G	8/20/24	1618	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G	8/20/24	1302	—	—		5		X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time		Date/Time	Tracking Number:
Relinquished by/Company: (Signature) ARCADIS	8/21/24 0820	Received by/Company: (Signature) Arcadis	8/21/24 0820	
Relinquished by/Company: (Signature) Arcadis	8/21/24 1020	Received by/Company: (Signature) Ryan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Ryan Williams / Pace	8/21/24 1250	Received by/Company: (Signature) Pace	8/21/24 1230	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain of Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [x] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [x] Level II [ ] Level III [ ] Level IV [x] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:		
	Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other Date Results Requested:	DW PWSID # or WW Permit # as applicable:	
		Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non conformance identified for sample
YAT-YGWA-47	WG	G			—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G	8/20/24	1640	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G	8/20/24	1200	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G	8/20/24	0959	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Perry Studebaker / Arcadis	8/21/24 0800	Jessica Dare / Arcadis	8/21/24 0800	
Jessica Dare / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	8/21/24 1230	MAW / Pace	~~8/21/24~~ 8/21/24 1230	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G	8/20/24	1735	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Sparks
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	8/20/24 1830	(Arcadis)	8/20/24 1830	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
(Arcadis)	8/21/24 1020	Ryan W. Williams / Pace	8/21/24 1020	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Ryan W. Williams / Pace	8/21/24 1230	Pace	8/21/24 1230	Page: of
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ®

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non conformance identified for sample
								Specify Container Size **		3	3	2	1		
								Identify Container Preservative Type***		2	1	1	2		
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G	8/20/24	1025	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G	8/20/24	1230	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G	8/20/24	1515	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks	

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct.Num / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis): David Pogue
Signature: (Arcadis):

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/20/24 1830	Arcadis	8/20/24 1830
Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020
Ryan Williams / Pace	8/21/24 1230	MATW / Pace	8/21/24
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORC-0019_v01_082123 ©

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV; [X] EQUIS; [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No; Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT); Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-UGRD-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G	8/20/24	1530	—	—		5		X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	8/20/24	—	—	—		5		X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl, 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/20/24 1830	Jessica Dow / Arcadis	8/20/24 1830
Jessica Dow / Arcadis	8/21/24 1020	Tyan Williams / Pace	8/21/24 1020
Tyan Williams / Pace	8/21/24 1230	MAW/Pace	8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.846.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program: (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G	8/20/24	0957	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G	8/20/24	1245	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G	8/20/24	1422	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks
														See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis): Jessica Ware
Signature: (Arcadis): Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) Jessica Ware / Arcadis	8/21/24 1020	Received by/Company: (Signature) Ryan Williams / Pace	8/21/24 1020
Relinquished by/Company: (Signature) Ryan Williams / Pace	8/21/24 1230	Received by/Company: (Signature) MRW / Pace	8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Trading Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace analytical services

DC#_Title: ENV-FRM-[illegible]_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Comp

Project #:

WO#: 92748851

PM: BV Due Date: 09/05/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: KM

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92748851

PM: BV **Due Date: 09/05/24**

CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client Southern Comp Profile/EZ (Circle one) 16561 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N2	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG0U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client: Southern Comp Profile/EZ (Circle one) 16561 Notes:

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation Vials (N/A)	DG9T-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G	8/20/24	1530	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G	8/20/24	—	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/20/24 1830	Cloddeau Vom / Arcadis	8/20/24 1830
Cloddeau Vom / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020
Ryan Williams / Pace	8/21/24 1230	MRW/Pace	8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G	8/20/24					5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G	8/20/24	1857				5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	8/20/24	1030	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1620
Ryan Williams / Pace	8/21/24 1230	Mona / Pace	8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace

DC#_Title: ENV-FRM-[illegible]_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company

Project #:

Courier: ☐ Commercial ☒ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Other:____

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: MJR

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.8

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W S				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client Southern Comp Profile/EZ (Circle one) 16561 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92748851

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G	8/21/24	1240	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G	8/21/24	1515	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis) - David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
David Prouty / Arcadis	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925	
Ryan Williams / Pace	8/22/24 1215	Olivia Hanks	8/22/24 1215	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G	8/21/24	0945	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	8/22/24 0975	Ryan Williams / Pace	8/22/24 0925
Ryan Williams / Pace	8/22/24 1215		8/22/24 1245
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave, Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G	8/21/24	1525	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G	8/21/24	—	—	—		5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Arcadis	Date/Time: 8/22/24 0925	Received by/Company: (Signature) Ryan W. Williams / Pace	Date/Time: 8/22/24 0925	Tracking Number:
Relinquished by/Company: (Signature) Ryan W. Williams / Pace	Date/Time: 8/22/24 1215	Received by/Company: (Signature)	Date/Time: 8/22/24 1215	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace

DC#_Title: ENV-FRM-RICH-0060 Rev_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 8/22/24 COT

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 23, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between August 21, 2024 and August 22, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

Revision 1: Project name corrected.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92748880001	**YAT-YGWA-30I**	Water	08/20/24 17:37	08/21/24 10:20
92748880002	**YAT-YGWA-14S**	Water	08/20/24 16:18	08/21/24 10:20
92748880003	**YAT-YGWA-3I**	Water	08/20/24 14:30	08/21/24 10:20
92748880004	**YAT-YGWA-3D**	Water	08/20/24 13:02	08/21/24 10:20
92748880005	**YAT-YGWA-21I**	Water	08/20/24 16:40	08/21/24 10:20
92748880006	**YAT-YGWA-4I**	Water	08/20/24 12:00	08/21/24 10:20
92748880007	**YAT-YGWA-5I**	Water	08/20/24 09:59	08/21/24 10:20
92748880008	**YAT-YGWA-20S**	Water	08/20/24 14:30	08/21/24 10:20
92748880009	**YAT-YGWA-47**	Water	08/20/24 17:35	08/21/24 10:20
92748880010	**YAT-YGWA-1I**	Water	08/20/24 10:25	08/21/24 10:20
92748880011	**YAT-YGWA-1D**	Water	08/20/24 12:30	08/21/24 10:20
92748880012	**YAT-YGWA-2I**	Water	08/20/24 15:15	08/21/24 10:20
92748880013	**YAT-UGRD-FB-1**	Water	08/20/24 15:30	08/21/24 10:20
92748880015	**YAT-YGWA-5D**	Water	08/20/24 09:57	08/21/24 10:20
92748880016	**YAT-YGWA-17S**	Water	08/20/24 12:45	08/21/24 10:20
92748880017	**YAT-YGWA-18I**	Water	08/20/24 14:22	08/21/24 10:20
92748880019	**YAT-UGRD-FD-1**	Water	08/20/24 00:00	08/21/24 10:20
92748880020	**YAT-UGRD-EB-2**	Water	08/20/24 18:57	08/21/24 10:20
92748880021	**YAT-UGRD-FB-2**	Water	08/20/24 10:30	08/21/24 10:20
92748880022	**YAT-YGWA-39**	Water	08/21/24 12:40	08/22/24 09:25
92748880023	**YAT-YGWA-40**	Water	08/21/24 15:15	08/22/24 09:25
92748880024	**YAT-YGWA-18S**	Water	08/21/24 09:45	08/22/24 09:25
92748880025	**YAT-UGRD-EB-1**	Water	08/21/24 15:25	08/22/24 09:25
92748880026	**YAT-UGRD-FD-2**	Water	08/21/24 00:00	08/22/24 09:25

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92748880001	**YAT-YGWA-30I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880002	**YAT-YGWA-14S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880003	**YAT-YGWA-3I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880004	**YAT-YGWA-3D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880005	**YAT-YGWA-21I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880006	**YAT-YGWA-4I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880007	**YAT-YGWA-5I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880008	**YAT-YGWA-20S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880009	**YAT-YGWA-47**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880010	**YAT-YGWA-1I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880011	**YAT-YGWA-1D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880012	**YAT-YGWA-2I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880013	**YAT-UGRD-FB-1**	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880015	**YAT-YGWA-5D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880016	**YAT-YGWA-17S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880017	**YAT-YGWA-18I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880019	**YAT-UGRD-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880020	**YAT-UGRD-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880021	**YAT-UGRD-FB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880022	**YAT-YGWA-39**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880023	**YAT-YGWA-40**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880024	**YAT-YGWA-18S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880025	**YAT-UGRD-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880026	**YAT-UGRD-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880001	**YAT-YGWA-30I**					
EPA 9315	Radium-226	0.115U ± 0.117 (0.232) C:88% T:NA	pCi/L		09/16/24 08:39	
EPA 9320	Radium-228	0.633U ± 0.367 (0.666) C:81% T:86%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	0.748U ± 0.484 (0.898)	pCi/L		09/16/24 16:08	
92748880002	**YAT-YGWA-14S**					
EPA 9315	Radium-226	-0.00239U ± 0.0816 (0.223) C:92% T:NA	pCi/L		09/16/24 08:39	
EPA 9320	Radium-228	0.667U ± 0.382 (0.696) C:82% T:88%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	0.667U ± 0.464 (0.919)	pCi/L		09/16/24 16:08	
92748880003	**YAT-YGWA-3I**					
EPA 9315	Radium-226	0.663 ± 0.237 (0.229) C:73% T:NA	pCi/L		09/16/24 09:33	
EPA 9320	Radium-228	0.258U ± 0.332 (0.706) C:86% T:83%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	0.921U ± 0.569 (0.935)	pCi/L		09/16/24 16:08	
92748880004	**YAT-YGWA-3D**					
EPA 9315	Radium-226	1.00 ± 0.279 (0.232) C:97% T:NA	pCi/L		09/16/24 08:39	
EPA 9320	Radium-228	2.09 ± 0.576 (0.575) C:86% T:87%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	3.09 ± 0.855 (0.807)	pCi/L		09/16/24 16:08	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880005	**YAT-YGWA-21I**					
EPA 9315	Radium-226	0.170U ± 0.127 (0.225) C:93% T:NA	pCi/L		09/16/24 08:39	
EPA 9320	Radium-228	0.375U ± 0.376 (0.772) C:83% T:89%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	0.545U ± 0.503 (0.997)	pCi/L		09/16/24 16:08	
92748880006	**YAT-YGWA-4I**					
EPA 9315	Radium-226	1.02 ± 0.302 (0.256) C:98% T:NA	pCi/L		09/16/24 08:39	
EPA 9320	Radium-228	0.156U ± 0.315 (0.694) C:84% T:91%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	1.18 ± 0.617 (0.950)	pCi/L		09/16/24 16:08	
92748880007	**YAT-YGWA-5I**					
EPA 9315	Radium-226	0.170U ± 0.121 (0.208) C:102% T:NA	pCi/L		09/16/24 08:40	
EPA 9320	Radium-228	0.525U ± 0.364 (0.697) C:82% T:85%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.695U ± 0.485 (0.905)	pCi/L		09/16/24 16:08	
92748880008	**YAT-YGWA-20S**					
EPA 9315	Radium-226	0.0893U ± 0.111 (0.234) C:96% T:NA	pCi/L		09/16/24 08:40	
EPA 9320	Radium-228	0.282U ± 0.317 (0.663) C:86% T:84%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.371U ± 0.428 (0.897)	pCi/L		09/16/24 16:08	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880009	**YAT-YGWA-47**					
EPA 9315	Radium-226	0.243U ± 0.165 (0.297) C:83% T:NA	pCi/L		09/16/24 08:40	
EPA 9320	Radium-228	0.630U ± 0.371 (0.667) C:86% T:82%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.873U ± 0.536 (0.964)	pCi/L		09/16/24 16:08	
92748880010	**YAT-YGWA-1I**					
EPA 9315	Radium-226	0.0860U ± 0.0997 (0.203) C:89% T:NA	pCi/L		09/16/24 08:40	
EPA 9320	Radium-228	0.564U ± 0.350 (0.650) C:81% T:91%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.650U ± 0.450 (0.853)	pCi/L		09/16/24 16:08	
92748880011	**YAT-YGWA-1D**					
EPA 9315	Radium-226	0.225U ± 0.144 (0.246) C:91% T:NA	pCi/L		09/16/24 08:41	
EPA 9320	Radium-228	0.235U ± 0.345 (0.743) C:84% T:87%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.460U ± 0.489 (0.989)	pCi/L		09/16/24 16:08	
92748880012	**YAT-YGWA-2I**					
EPA 9315	Radium-226	0.0451U ± 0.0938 (0.218) C:96% T:NA	pCi/L		09/16/24 08:41	
EPA 9320	Radium-228	0.0461U ± 0.317 (0.730) C:82% T:90%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.0912U ± 0.411 (0.948)	pCi/L		09/16/24 16:08	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880013	**YAT-UGRD-FB-1**					
EPA 9315	Radium-226	-0.0392U ± 0.0876 (0.254) C:94% T:NA	pCi/L		09/16/24 08:41	
EPA 9320	Radium-228	0.488U ± 0.355 (0.692) C:82% T:90%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.488U ± 0.443 (0.946)	pCi/L		09/16/24 16:08	
92748880015	**YAT-YGWA-5D**					
EPA 9315	Radium-226	2.29 ± 0.484 (0.250) C:90% T:NA	pCi/L		09/16/24 08:40	
EPA 9320	Radium-228	0.732 ± 0.360 (0.612) C:85% T:91%	pCi/L		09/11/24 14:05	
Total Radium Calculation	Total Radium	3.02 ± 0.844 (0.862)	pCi/L		09/16/24 16:08	
92748880016	**YAT-YGWA-17S**					
EPA 9315	Radium-226	0.0243U ± 0.117 (0.295) C:79% T:NA	pCi/L		09/16/24 07:59	
EPA 9320	Radium-228	0.530U ± 0.341 (0.637) C:82% T:91%	pCi/L		09/11/24 14:05	
Total Radium Calculation	Total Radium	0.554U ± 0.458 (0.932)	pCi/L		09/16/24 15:34	
92748880017	**YAT-YGWA-18I**					
EPA 9315	Radium-226	0.0117U ± 0.0900 (0.240) C:79% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.211U ± 0.322 (0.696) C:84% T:84%	pCi/L		09/11/24 14:05	
Total Radium Calculation	Total Radium	0.223U ± 0.412 (0.936)	pCi/L		09/16/24 15:34	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880019	**YAT-UGRD-FD-1**					
EPA 9315	Radium-226	0.0784U ± 0.127 (0.285) C:79% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.477U ± 0.302 (0.553) C:87% T:90%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.555U ± 0.429 (0.838)	pCi/L		09/16/24 15:34	
92748880020	**YAT-UGRD-EB-2**					
EPA 9315	Radium-226	0.108U ± 0.130 (0.269) C:79% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.393U ± 0.311 (0.610) C:81% T:92%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.501U ± 0.441 (0.879)	pCi/L		09/16/24 15:34	
92748880021	**YAT-UGRD-FB-2**					
EPA 9315	Radium-226	0.0687U ± 0.0992 (0.213) C:84% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.625U ± 0.399 (0.749) C:78% T:84%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.694U ± 0.498 (0.962)	pCi/L		09/16/24 15:34	
92748880022	**YAT-YGWA-39**					
EPA 9315	Radium-226	0.575 ± 0.294 (0.450) C:97% T:NA	pCi/L		09/13/24 15:20	
EPA 9320	Radium-228	0.943 ± 0.504 (0.918) C:75% T:88%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	1.52 ± 0.798 (1.37)	pCi/L		09/16/24 16:11	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880023	**YAT-YGWA-40**					
EPA 9315	Radium-226	0.146U ± 0.157 (0.308) C:95% T:NA	pCi/L		09/13/24 15:20	
EPA 9320	Radium-228	0.119U ± 0.368 (0.827) C:82% T:86%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.265U ± 0.525 (1.14)	pCi/L		09/16/24 16:11	
92748880024	**YAT-YGWA-18S**					
EPA 9315	Radium-226	0.0674U ± 0.156 (0.371) C:93% T:NA	pCi/L		09/13/24 15:21	
EPA 9320	Radium-228	0.617U ± 0.458 (0.912) C:80% T:91%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.684U ± 0.614 (1.28)	pCi/L		09/16/24 16:11	
92748880025	**YAT-UGRD-EB-1**					
EPA 9315	Radium-226	0.000U ± 0.140 (0.380) C:94% T:NA	pCi/L		09/13/24 15:21	
EPA 9320	Radium-228	0.462U ± 0.397 (0.800) C:76% T:85%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.462U ± 0.537 (1.18)	pCi/L		09/16/24 16:11	
92748880026	**YAT-UGRD-FD-2**					
EPA 9315	Radium-226	0.239U ± 0.201 (0.360) C:80% T:NA	pCi/L		09/13/24 15:35	
EPA 9320	Radium-228	0.304U ± 0.323 (0.669) C:81% T:85%	pCi/L		09/11/24 14:24	
Total Radium Calculation	Total Radium	0.543U ± 0.524 (1.03)	pCi/L		09/16/24 16:11	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-30I **Lab ID: 92748880001** Collected: 08/20/24 17:37 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.115U ± 0.117 (0.232) C:88% T:NA**	pCi/L	09/16/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.633U ± 0.367 (0.666) C:81% T:86%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.748U ± 0.484 (0.898)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-14S **Lab ID: 92748880002** Collected: 08/20/24 16:18 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00239U ± 0.0816 (0.223) C:92% T:NA**	pCi/L	09/16/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.667U ± 0.382 (0.696) C:82% T:88%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.667U ± 0.464 (0.919)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-3I **Lab ID: 92748880003** Collected: 08/20/24 14:30 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.663 ± 0.237 (0.229) C:73% T:NA**	pCi/L	09/16/24 09:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.258U ± 0.332 (0.706) C:86% T:83%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.921U ± 0.569 (0.935)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-3D **Lab ID: 92748880004** Collected: 08/20/24 13:02 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.00 ± 0.279 (0.232) C:97% T:NA**	pCi/L	09/16/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.09 ± 0.576 (0.575) C:86% T:87%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.09 ± 0.855 (0.807)**	pCi/L	09/16/24 16:08	7440-14-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-21I **Lab ID: 92748880005** Collected: 08/20/24 16:40 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.170U ± 0.127 (0.225) C:93% T:NA**	pCi/L	09/16/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.375U ± 0.376 (0.772) C:83% T:89%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.545U ± 0.503 (0.997)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-4I **Lab ID: 92748880006** Collected: 08/20/24 12:00 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.02 ± 0.302 (0.256) C:98% T:NA**	pCi/L	09/16/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.156U ± 0.315 (0.694) C:84% T:91%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.18 ± 0.617 (0.950)**	pCi/L	09/16/24 16:08	7440-14-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-5I **Lab ID: 92748880007** Collected: 08/20/24 09:59 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.170U ± 0.121 (0.208) C:102% T:NA**	pCi/L	09/16/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.525U ± 0.364 (0.697) C:82% T:85%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.695U ± 0.485 (0.905)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-20S **Lab ID: 92748880008** Collected: 08/20/24 14:30 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0893U ± 0.111 (0.234) C:96% T:NA**	pCi/L	09/16/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.282U ± 0.317 (0.663) C:86% T:84%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.371U ± 0.428 (0.897)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-47 **Lab ID: 92748880009** Collected: 08/20/24 17:35 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.243U ± 0.165 (0.297) C:83% T:NA**	pCi/L	09/16/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.630U ± 0.371 (0.667) C:86% T:82%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.873U ± 0.536 (0.964)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-1I **Lab ID: 92748880010** Collected: 08/20/24 10:25 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0860U ± 0.0997 (0.203) C:89% T:NA**	pCi/L	09/16/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.564U ± 0.350 (0.650) C:81% T:91%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.650U ± 0.450 (0.853)**	pCi/L	09/16/24 16:08	7440-14-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-1D **Lab ID: 92748880011** Collected: 08/20/24 12:30 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.225U ± 0.144 (0.246) C:91% T:NA**	pCi/L	09/16/24 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.235U ± 0.345 (0.743) C:84% T:87%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.460U ± 0.489 (0.989)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-2I **Lab ID: 92748880012** Collected: 08/20/24 15:15 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0451U ± 0.0938 (0.218) C:96% T:NA**	pCi/L	09/16/24 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0461U ± 0.317 (0.730) C:82% T:90%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0912U ± 0.411 (0.948)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-FB-1 **Lab ID: 92748880013** Collected: 08/20/24 15:30 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0392U ± 0.0876 (0.254) C:94% T:NA**	pCi/L	09/16/24 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.488U ± 0.355 (0.692) C:82% T:90%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.488U ± 0.443 (0.946)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-5D **Lab ID: 92748880015** Collected: 08/20/24 09:57 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**2.29 ± 0.484 (0.250) C:90% T:NA**	pCi/L	09/16/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.732 ± 0.360 (0.612) C:85% T:91%**	pCi/L	09/11/24 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.02 ± 0.844 (0.862)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-17S **Lab ID: 92748880016** Collected: 08/20/24 12:45 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0243U ± 0.117 (0.295) C:79% T:NA**	pCi/L	09/16/24 07:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.530U ± 0.341 (0.637) C:82% T:91%**	pCi/L	09/11/24 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.554U ± 0.458 (0.932)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-18I **Lab ID: 92748880017** Collected: 08/20/24 14:22 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0117U ± 0.0900 (0.240) C:79% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.211U ± 0.322 (0.696) C:84% T:84%**	pCi/L	09/11/24 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.223U ± 0.412 (0.936)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-FD-1 **Lab ID: 92748880019** Collected: 08/20/24 00:00 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0784U ± 0.127 (0.285) C:79% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.477U ± 0.302 (0.553) C:87% T:90%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.555U ± 0.429 (0.838)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-EB-2 **Lab ID: 92748880020** Collected: 08/20/24 18:57 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.108U ± 0.130 (0.269) C:79% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.393U ± 0.311 (0.610) C:81% T:92%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.501U ± 0.441 (0.879)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-FB-2 **Lab ID: 92748880021** Collected: 08/20/24 10:30 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0687U ± 0.0992 (0.213) C:84% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.625U ± 0.399 (0.749) C:78% T:84%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.694U ± 0.498 (0.962)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-39 **Lab ID: 92748880022** Collected: 08/21/24 12:40 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.575 ± 0.294 (0.450) C:97% T:NA**	pCi/L	09/13/24 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.943 ± 0.504 (0.918) C:75% T:88%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.52 ± 0.798 (1.37)**	pCi/L	09/16/24 16:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-40 **Lab ID: 92748880023** Collected: 08/21/24 15:15 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.146U ± 0.157 (0.308) C:95% T:NA**	pCi/L	09/13/24 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.119U ± 0.368 (0.827) C:82% T:86%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.265U ± 0.525 (1.14)**	pCi/L	09/16/24 16:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-18S **Lab ID: 92748880024** Collected: 08/21/24 09:45 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0674U ± 0.156 (0.371) C:93% T:NA**	pCi/L	09/13/24 15:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.617U ± 0.458 (0.912) C:80% T:91%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.684U ± 0.614 (1.28)**	pCi/L	09/16/24 16:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-EB-1 **Lab ID: 92748880025** Collected: 08/21/24 15:25 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.000U ± 0.140 (0.380) C:94% T:NA**	pCi/L	09/13/24 15:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.462U ± 0.397 (0.800) C:76% T:85%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.462U ± 0.537 (1.18)**	pCi/L	09/16/24 16:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-FD-2 **Lab ID: 92748880026** Collected: 08/21/24 00:00 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.239U ± 0.201 (0.360) C:80% T:NA**	pCi/L	09/13/24 15:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.304U ± 0.323 (0.669) C:81% T:85%**	pCi/L	09/11/24 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.543U ± 0.524 (1.03)**	pCi/L	09/16/24 16:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

QC Batch: 693372
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92748880022, 92748880023, 92748880024, 92748880025, 92748880026

METHOD BLANK: 3376218
Matrix: Water
Associated Lab Samples: 92748880022, 92748880023, 92748880024, 92748880025, 92748880026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0491 ± 0.141 (0.426) C:82% T:NA	pCi/L	09/13/24 15:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

QC Batch: 692082 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92748880016, 92748880017, 92748880019, 92748880020, 92748880021

METHOD BLANK: 3370048 Matrix: Water
Associated Lab Samples: 92748880016, 92748880017, 92748880019, 92748880020, 92748880021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0815 ± 0.144 (0.327) C:92% T:NA	pCi/L	09/16/24 08:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

QC Batch: 691960
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92748880001, 92748880002, 92748880003, 92748880004, 92748880005, 92748880006, 92748880007, 92748880008, 92748880009, 92748880010, 92748880011, 92748880012, 92748880013, 92748880015, 92748880016, 92748880017

METHOD BLANK: 3369428
Matrix: Water
Associated Lab Samples: 92748880001, 92748880002, 92748880003, 92748880004, 92748880005, 92748880006, 92748880007, 92748880008, 92748880009, 92748880010, 92748880011, 92748880012, 92748880013, 92748880015, 92748880016, 92748880017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.161 ± 0.318 (0.699) C:84% T:86%	pCi/L	09/11/24 14:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

QC Batch: 691962
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92748880019, 92748880020, 92748880021, 92748880022, 92748880023, 92748880024, 92748880025, 92748880026

METHOD BLANK: 3369429
Matrix: Water
Associated Lab Samples: 92748880019, 92748880020, 92748880021, 92748880022, 92748880023, 92748880024, 92748880025, 92748880026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.325 ± 0.297 (0.601) C:85% T:93%	pCi/L	09/11/24 14:23	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

QC Batch: 692081 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92748880001, 92748880002, 92748880003, 92748880004, 92748880005, 92748880006, 92748880007, 92748880008, 92748880009, 92748880010, 92748880011, 92748880012, 92748880013, 92748880015

METHOD BLANK: 3370042 Matrix: Water
Associated Lab Samples: 92748880001, 92748880002, 92748880003, 92748880004, 92748880005, 92748880006, 92748880007, 92748880008, 92748880009, 92748880010, 92748880011, 92748880012, 92748880013, 92748880015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0188 ± 0.0803 (0.237) C:93% T:NA	pCi/L	09/13/24 15:25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748880001	**YAT-YGWA-30I**	EPA 9315	692081		
92748880002	**YAT-YGWA-14S**	EPA 9315	692081		
92748880003	**YAT-YGWA-3I**	EPA 9315	692081		
92748880004	**YAT-YGWA-3D**	EPA 9315	692081		
92748880005	**YAT-YGWA-21I**	EPA 9315	692081		
92748880006	**YAT-YGWA-4I**	EPA 9315	692081		
92748880007	**YAT-YGWA-5I**	EPA 9315	692081		
92748880008	**YAT-YGWA-20S**	EPA 9315	692081		
92748880009	**YAT-YGWA-47**	EPA 9315	692081		
92748880010	**YAT-YGWA-1I**	EPA 9315	692081		
92748880011	**YAT-YGWA-1D**	EPA 9315	692081		
92748880012	**YAT-YGWA-2I**	EPA 9315	692081		
92748880013	**YAT-UGRD-FB-1**	EPA 9315	692081		
92748880015	**YAT-YGWA-5D**	EPA 9315	692081		
92748880016	**YAT-YGWA-17S**	EPA 9315	692082		
92748880017	**YAT-YGWA-18I**	EPA 9315	692082		
92748880019	**YAT-UGRD-FD-1**	EPA 9315	692082		
92748880020	**YAT-UGRD-EB-2**	EPA 9315	692082		
92748880021	**YAT-UGRD-FB-2**	EPA 9315	692082		
92748880022	**YAT-YGWA-39**	EPA 9315	693372		
92748880023	**YAT-YGWA-40**	EPA 9315	693372		
92748880024	**YAT-YGWA-18S**	EPA 9315	693372		
92748880025	**YAT-UGRD-EB-1**	EPA 9315	693372		
92748880026	**YAT-UGRD-FD-2**	EPA 9315	693372		
92748880001	**YAT-YGWA-30I**	EPA 9320	691960		
92748880002	**YAT-YGWA-14S**	EPA 9320	691960		
92748880003	**YAT-YGWA-3I**	EPA 9320	691960		
92748880004	**YAT-YGWA-3D**	EPA 9320	691960		
92748880005	**YAT-YGWA-21I**	EPA 9320	691960		
92748880006	**YAT-YGWA-4I**	EPA 9320	691960		
92748880007	**YAT-YGWA-5I**	EPA 9320	691960		
92748880008	**YAT-YGWA-20S**	EPA 9320	691960		
92748880009	**YAT-YGWA-47**	EPA 9320	691960		
92748880010	**YAT-YGWA-1I**	EPA 9320	691960		
92748880011	**YAT-YGWA-1D**	EPA 9320	691960		
92748880012	**YAT-YGWA-2I**	EPA 9320	691960		
92748880013	**YAT-UGRD-FB-1**	EPA 9320	691960		
92748880015	**YAT-YGWA-5D**	EPA 9320	691960		
92748880016	**YAT-YGWA-17S**	EPA 9320	691960		
92748880017	**YAT-YGWA-18I**	EPA 9320	691960		
92748880019	**YAT-UGRD-FD-1**	EPA 9320	691962		
92748880020	**YAT-UGRD-EB-2**	EPA 9320	691962		
92748880021	**YAT-UGRD-FB-2**	EPA 9320	691962		
92748880022	**YAT-YGWA-39**	EPA 9320	691962		
92748880023	**YAT-YGWA-40**	EPA 9320	691962		
92748880024	**YAT-YGWA-18S**	EPA 9320	691962		
92748880025	**YAT-UGRD-EB-1**	EPA 9320	691962		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748880026	**YAT-UGRD-FD-2**	EPA 9320	691962		
92748880001	**YAT-YGWA-30I**	Total Radium Calculation	696375		
92748880002	**YAT-YGWA-14S**	Total Radium Calculation	696375		
92748880003	**YAT-YGWA-3I**	Total Radium Calculation	696375		
92748880004	**YAT-YGWA-3D**	Total Radium Calculation	696375		
92748880005	**YAT-YGWA-21I**	Total Radium Calculation	696375		
92748880006	**YAT-YGWA-4I**	Total Radium Calculation	696375		
92748880007	**YAT-YGWA-5I**	Total Radium Calculation	696375		
92748880008	**YAT-YGWA-20S**	Total Radium Calculation	696375		
92748880009	**YAT-YGWA-47**	Total Radium Calculation	696375		
92748880010	**YAT-YGWA-1I**	Total Radium Calculation	696375		
92748880011	**YAT-YGWA-1D**	Total Radium Calculation	696375		
92748880012	**YAT-YGWA-2I**	Total Radium Calculation	696375		
92748880013	**YAT-UGRD-FB-1**	Total Radium Calculation	696375		
92748880015	**YAT-YGWA-5D**	Total Radium Calculation	696375		
92748880016	**YAT-YGWA-17S**	Total Radium Calculation	696366		
92748880017	**YAT-YGWA-18I**	Total Radium Calculation	696366		
92748880019	**YAT-UGRD-FD-1**	Total Radium Calculation	696366		
92748880020	**YAT-UGRD-EB-2**	Total Radium Calculation	696366		
92748880021	**YAT-UGRD-FB-2**	Total Radium Calculation	696366		
92748880022	**YAT-YGWA-39**	Total Radium Calculation	696376		
92748880023	**YAT-YGWA-40**	Total Radium Calculation	696376		
92748880024	**YAT-YGWA-18S**	Total Radium Calculation	696376		
92748880025	**YAT-UGRD-EB-1**	Total Radium Calculation	696376		
92748880026	**YAT-UGRD-FD-2**	Total Radium Calculation	696376		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92748880

92748880

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G	8/20/24	1737	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G	8/20/24	1618	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks
* YAT-YGWA-3D	WG	G	8/20/24	1302	—	—		5		X	X	X	X	See Remarks

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: [Arcadis] -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished By/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
MCNOIS	8/21/24 0820	Arcadis	8/21/24 0820
Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020
Ryan Williams / Pace	8/21/24 1250	Pace	8/21/24 1230
	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[x] Level II [ ] Level III [ ] Level IV
[x] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non conformance identified for sample
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G	8/20/24	1640	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G	8/20/24	1200	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G	8/20/24	0959	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - Perry Sindebaker
Signature: (Arcadis) - Perry Sindebaker

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp (°C)

	Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
1	Perry Sindebaker / Arcadis	8/21/24 0800	[illegible] / Arcadis	8/21/24 0800
2	[illegible] / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020
3	Ryan Williams / Pace	8/21/24 1230	MAW / Pace	8/21/24 1230
4				

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable.

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Wang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-47	WG	G	8/20/24	1735	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Spouts
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/20/24 1830	Arcadis	8/20/24 1830
Arcadis	8/21/24 1020	Pace	8/21/24 1020
Pace	8/21/24 1230	Pace	8/21/24 1230
	Date/Time:		Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ®

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non conformance identified for sample
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G	8/20/24	1025	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G	8/20/24	1230	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G	8/20/24	1515	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks	

Lab Use Only
Proj. Mgr: Bonnie Vang
Acct.Num / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis): David Proud
Signature: (Arcadis):

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	8/20/24 1830	Received by/Company: (Signature)	8/20/24 1830
Relinquished by/Company: (Signature)	8/21/24 1020	Received by/Company: (Signature)	8/21/24 1020
Relinquished by/Company: (Signature)	8/21/24 1230	Received by/Company: (Signature)	8/21/24
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORC-0019_v01_082123 ©

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program: (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix*	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
Specify Container Size **								3	3	2	1			
Identify Container Preservative Type***								2	1	1	2			
YAT-UGRD-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G	8/20/24	1530	—	—		5		X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	8/20/24	—	—	—		5		X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl, 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/20/24 1830		8/20/24 1830
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/21/24 1020		8/21/24 1020
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/21/24 1230		8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.846.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non conformance identified for sample.
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G	8/20/24	0957	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G	8/20/24	1245	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G	8/20/24	1422	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/21/24 1020	Received by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/21/24 1020	Tracking Number:
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/21/24 1230	Received by/Company: (Signature) MAW / Pace	Date/Time: 8/21/24 1230	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

Pace Analytical Services

DC#_Title: ENV-FRM-HUNT-0008 v08_Sample Donation Specification

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Comp

Project #:

WO#: 92748880

PM: BV **Due Date: 09/12/24**

CLIENT: 92-GP-Yates

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: KM

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 230 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Qualtrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92748880

PM: BV Due Date: 09/12/24

CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client Southern Comp Profile/EZ (Circle one) 16561 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	RP1Z	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	ncgu-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client Southern Comp Profile/EZ (Circle one) 16561 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G	8/20/24	1530	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G	8/20/24	—	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:		Date/Time:	
Relinquished by/Company: (Signature)	8/20/24 1830	Received by/Company: (Signature) Goddard Dow / Arcadis	8/20/24 1830	Tracking Number:
Relinquished by/Company: (Signature) Goddard Dow / Arcadis	8/21/24 1020	Received by/Company: (Signature) Ryan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature) Ryan Williams / Pace	8/21/24 1230	Received by/Company: (Signature) MAW/Pace	8/21/24 1230	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G	8/20/24					5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G	8/20/24	1857				5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	8/20/24	1030	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	8/21/24 1020	Ryan W.Illiams / Pace	8/21/24 1020
Ryan Williams / Pace	8/21/24 1230	Mary / Pace	8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace

DC#_Title: ENV-FRM-HUNT-0008 v08_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company

Project #:

Courier: ☐ Commercial ☒ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Other:____

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: MM

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.8

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W G			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client Southern Comp Profile/EZ (Circle one) 16561 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

9274888Eu

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-A55MT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G	8/21/24	1240	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G	8/21/24	1515	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis) David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
David Prouty / Arcadis	8/22/24 0925	Ryan W.Ilam / Pace	8/22/24 0925	
Ryan W.Ilam / Pace	8/22/24 1215	Chase Hinds	8/22/24 1215	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G	8/21/24	0945	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

#Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925	
Ryan Williams / Pace	8/22/24 1215		8/22/24 1245	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation/non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G	8/21/24	1525	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G	8/21/24	—	—	—		5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	8/22/24 0925	Tyan W. Williams / Pace	8/22/24 0925
Tyan W. Williams / Pace	8/22/24 1215		8/22/24 1215
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace

DC#_Title: ENV-FRM-[illegible]

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 8/22/24 COT

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	JJS1
Date:	9/3/2024
Worklist:	80992
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3369428
MB concentration:	0.161
M/B 2 Sigma CSU:	0.318
MB MDC:	0.699
MB Numerical Performance Indicator:	0.99
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS80992	**LCSD80992**
Count Date:	9/11/2024	9/11/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.330	35.330
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.820
Target Conc. (pCi/L, g, F):	4.316	4.310
Uncertainty (Calculated):	0.211	0.211
Result (pCi/L, g, F):	2.660	3.947
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.667	0.892
Numerical Performance Indicator:	-4.64	-0.78
Percent Recovery:	61.62%	91.57%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS80992	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD80992	
Sample Result (pCi/L, g, F):	2.660	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.667	
Sample Duplicate Result (pCi/L, g, F):	3.947	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.892	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-2.266	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	39.10%	
Duplicate Status vs Numerical Indicator:	Warning	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ZR 9·12·24

VAL 9/12/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/5/2024
Worklist:	80993
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3369429
MB concentration:	0.325
M/B 2 Sigma CSU:	0.297
MB MDC:	0.601
MB Numerical Performance Indicator:	2.14
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS80993	**LCSD80993**
Count Date:	9/11/2024	9/11/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.330	35.330
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.815
Target Conc. (pCi/L, g, F):	4.330	4.333
Uncertainty (Calculated):	0.212	0.212
Result (pCi/L, g, F):	4.124	3.468
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.955	0.836
Numerical Performance Indicator:	-0.41	-1.97
Percent Recovery:	95.23%	80.05%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS80993	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD80993	
Sample Result (pCi/L, g, F):	4.124	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.955	
Sample Duplicate Result (pCi/L, g, F):	3.468	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.836	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.012	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.32%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ZPC 9.12.24

VAL 9/12/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/6/2024
Worklist:	81001
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3370042
MB concentration:	-0.019
M/B 2 Sigma CSU:	0.080
MB MDC:	0.237
MB Numerical Performance Indicator:	-0.46
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81001	**LCSD81001**
Count Date:	9/16/2024	9/16/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.508
Target Conc. (pCi/L, g, F):	4.969	4.929
Uncertainty (Calculated):	0.234	0.232
Result (pCi/L, g, F):	4.764	4.413
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.852	0.796
Numerical Performance Indicator:	-0.45	-1.22
Percent Recovery:	95.87%	89.54%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81001	92748880015
Duplicate Sample I.D.	LCSD81001	92748880015DUP
Sample Result (pCi/L, g, F):	4.764	2.289
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.852	0.484
Sample Duplicate Result (pCi/L, g, F):	4.413	2.002
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.796	0.428
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.589	0.868
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.83%	13.34%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET 9-16-24

LAM 9/16/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/9/2024
Worklist:	81002
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3370048
MB concentration:	0.081
M/B 2 Sigma CSU:	0.144
MB MDC:	0.327
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81002	**LCSD81002**
Count Date:	9/16/2024	9/16/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.503
Target Conc. (pCi/L, g, F):	4.943	4.974
Uncertainty (Calculated):	0.232	0.234
Result (pCi/L, g, F):	5.073	4.860
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.914	0.921
Numerical Performance Indicator:	0.27	-0.23
Percent Recovery:	102.61%	97.71%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81002	92749185006
Duplicate Sample I.D.	LCSD81002	92749185006DUP
Sample Result (pCi/L, g, F):	5.073	0.163
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.914	0.129
Sample Duplicate Result (pCi/L, g, F):	4.860	0.126
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.921	0.130
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.321	0.399
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.89%	25.75%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

LT 9-16-24

VAm 9/16/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/11/2024
Worklist:	81119
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3376218
MB concentration:	-0.049
M/B 2 Sigma CSU:	0.141
MB MDC:	0.426
MB Numerical Performance Indicator:	-0.68
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81119	**LCSD81119**
Count Date:	9/13/2024	9/13/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.502
Target Conc. (pCi/L, g, F):	4.928	4.983
Uncertainty (Calculated):	0.232	0.234
Result (pCi/L, g, F):	4.491	5.297
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.924	1.057
Numerical Performance Indicator:	-0.90	0.57
Percent Recovery:	91.14%	106.30%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81119	92748210041
Duplicate Sample I.D.	LCSD81119	92748210041DUP
Sample Result (pCi/L, g, F):	4.491	0.035
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.924	0.157
Sample Duplicate Result (pCi/L, g, F):	5.297	0.033
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.057	0.161
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.125	0.010
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.36%	3.45%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET 9-16-24

LAM 9/16/24

February 2025

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92781915 and 92781916

Analyses Performed By:
Pace Analytical Services – West Columbia, South Carolina
Pace Analytical Services – Asheville, North Carolina
Pace National – Mt. Juliet, Tennessee
Pace Analytical Services – Greensburg, Pennsylvania

Report #58786R
Review Level: Tier II
Project: 30143607.3D

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92781915 and 92781916 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-AP1-FB-1	92781915001 92781916001	Water	2/25/2025		X	X	X
YAT-YGWC-52	92781915002 92781916002	Water	2/26/2025		X	X	X
YAT-YGWC-44	92781915003 92781916003	Water	2/26/2025		X	X	X
YAT-YGWC-45	92781915004 92781916004	Water	2/26/2025		X	X	X
YAT-YGWC-46A	92781915005 92781916005	Water	2/26/2025		X	X	X
YAT-AP1-FD-1	92781915006 92781916006	Water	2/26/2025	YAT-YGWC-46A	X	X	X
YAT-AP1-EB-1	92781915007 92781916007	Water	2/26/2025		X	X	X

Notes:

1. Metals analysis performed by Pace Analytical Services – West Columbia, South Carolina.
2. Mercury, alkalinity, total dissolved solids, and anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Lithium analysis performed by Pace National – Mt. Juliet, Tennessee.
4. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6020B, 7470A, 9315, and 9320; Standard Method (SM) 2320B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis performed using sample YAT-AP1-FB-1 in association with lithium by method SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YAT-YGWC-52 in association with SW-846 7470A analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with the SW-846 6020B analysis.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6020B and SW-846 7470A. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-46A / YAT-AP1-FD-1	Lithium	0.0178 J	0.0183 J	AC
	Barium	0.046	0.045	2.2%
	Boron	2.8	2.6	AC
	Calcium	132	130	1.5%
	Magnesium	72.7	71.1	2.2%
	Potassium	8.9	8.9	0.0%
	Sodium	43.6	43.4	0.5%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-46A and field duplicate sample YAT-AP1-FD-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Alkalinity by SM2320B	Water	14 days from collection to analysis	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using sample YAT-AP1-FB-1 in association with anions analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with alkalinity analysis.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed using sample YAT-YGWC-44 in association with TDS analysis exhibited an RPD within the control limit.

MS/MSD analysis was performed using sample YAT-AP1-FB-1 in replacement of the laboratory duplicate analysis in association with anions. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate analysis was not performed using a sample from this SDG in association with alkalinity analysis.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-46A / YAT-AP1-FD-1	Alkalinity, Bicarbonate (CaCO3)	98.2	97.8	0.4%
	Alkalinity, Total as CaCO3	98.2	97.8	0.4%
	Total Dissolved Solids	1,030	1,000	3.0%
	Chloride	35.2	35.2	0.0%
	Fluoride	0.075 J	0.075 J	AC
	Sulfate	463	466	0.6%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-46A and field duplicate sample YAT-AP1-FD-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM230B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$Normalized\ \ absolute\ difference_{\ MethodBlank} = \frac{|\ Sample\ -\ Blank\ |}{\sqrt{(U_{Sample}\ )^2 + (U_{Blank}\ )^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

Note:
* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 and Radium-228 were detected in the method blanks, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

Laboratory duplicate analysis was not performed using a sample from this SDG.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-46A / YAT-AP1-FD-1	Radium-226	1.18 ± 0.326	1.31 ± 0.335	AC
	Radium-228	2.51 ± 0.797	1.47 ± 0.590	
	Total Radium	3.69 ± 1.12	2.78 ± 0.925	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-46A and field duplicate sample YAT-AP1-FD-1 were acceptable.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results were qualified as “U” by the laboratory as applicable.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: April 18, 2025

PEER REVIEW: Dennis Capria

DATE: April 18, 2025

Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92781915

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-1	Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

Identify Container Preservative Type***: 2 1 1 2 1

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-52	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-44	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-45	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-46A	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP1-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP1-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP1-FB-1	WG	G	2/25/25	1720	—	—		7		X	X	X	X	X	See Remarks GW1

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Perry Snyderbaker
Printed Name: (Arcadis) -
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Snyderbaker / Arcadis	2/26/25 0830	[illegible] ARCADIS	2/26/25 0830
[illegible] ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[illegible]	2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92781915

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-1		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: **Bonnie Vang**; AcctNum / Client ID:; Table #:; Profile / Template: **16561**; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance Identified for sample:
YAT-YGWC-52	WG	G	2/26/25	0935				7		X	X	X	X	X	See Remarks 002	
YAT-YGWC-44	WG	G	2/26/25	1550				7		X	X	X	X	X	See Remarks 003	
YAT-YGWC-45	WG	G	2/26/25	1136				7		X	X	X	X	X	See Remarks 004	
YAT-YGWC-45A	WG	G	2/26/25	1740				7		X	X	X	X	X	See Remarks 005	
YAT-AP1-FD-1	WG	G	2/26/25	—				7		X	X	X	X	X	See Remarks 006	
YAT-AP1-EB-1	WG	G	2/26/25	1630				7		X	X	X	X	X	See Remarks 007	
YAT-AP1-FB-1	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/27/25 0800	Jessica Dal / Arcadis	2/27/25 0800
Jessica Dal / Arcadis	2/27/25 1005	Tyan Williams / Pace	2/27/25 1005
Tyan Williams / Pace	2/27/25 1340	Chuck Hunt 2/27/25	7340

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92781915	No qualifiers assigned						
92781916	No qualifiers assigned						

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 25, 2025

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-1
Pace Project No.: 92781915

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between February 26, 2025 and February 27, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-1
Pace Project No.: 92781915

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-1
Pace Project No.: 92781915

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92781915001	**YAT-AP1-FB-1**	Water	02/25/25 17:20	02/26/25 13:55
92781915002	**YAT-YGWC-52**	Water	02/26/25 09:35	02/27/25 13:40
92781915003	**YAT-YGWC-44**	Water	02/26/25 15:50	02/27/25 13:40
92781915004	**YAT-YGWC-45**	Water	02/26/25 11:36	02/27/25 13:40
92781915005	**YAT-YGWC-46A**	Water	02/26/25 17:40	02/27/25 13:40
92781915006	**YAT-AP1-FD-1**	Water	02/26/25 00:00	02/27/25 13:40
92781915007	**YAT-AP1-EB-1**	Water	02/26/25 16:30	02/27/25 13:40

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-1
Pace Project No.: 92781915

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92781915001	**YAT-AP1-FB-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781915002	**YAT-YGWC-52**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781915003	**YAT-YGWC-44**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781915004	**YAT-YGWC-45**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781915005	**YAT-YGWC-46A**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781915006	**YAT-AP1-FD-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781915007	**YAT-AP1-EB-1**	EPA 6020B	JPD	1	PAN

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-1
Pace Project No.: 92781915

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-1
Pace Project No.: 92781915

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781915002	**YAT-YGWC-52**					
EPA 6020B	Lithium	0.00364J	mg/L	0.0300	03/12/25 16:00	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	46.0	mg/L	5.0	03/07/25 14:29	
SM 2320B-2011	Alkalinity, Total as CaCO3	46.0	mg/L	5.0	03/07/25 14:29	
SM 2540C-2015	Total Dissolved Solids	205	mg/L	25.0	03/05/25 12:45	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	03/01/25 22:02	
EPA 300.0 Rev 2.1 1993	Sulfate	86.6	mg/L	1.0	03/01/25 22:02	
EPA 6020B	Barium	0.018	mg/L	0.0050	03/20/25 10:37	
EPA 6020B	Calcium	32.3	mg/L	1.0	03/20/25 10:37	
EPA 6020B	Magnesium	8.2	mg/L	0.050	03/20/25 10:37	
EPA 6020B	Potassium	1.6	mg/L	0.50	03/20/25 10:37	
EPA 6020B	Sodium	10.9	mg/L	1.0	03/20/25 10:37	
92781915003	**YAT-YGWC-44**					
EPA 6020B	Lithium	0.0146J	mg/L	0.0300	03/12/25 16:03	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	66.7	mg/L	5.0	03/07/25 14:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	66.7	mg/L	5.0	03/07/25 14:35	
SM 2540C-2015	Total Dissolved Solids	309	mg/L	25.0	03/05/25 12:28	
EPA 300.0 Rev 2.1 1993	Chloride	11.7	mg/L	1.0	03/01/25 22:17	
EPA 300.0 Rev 2.1 1993	Sulfate	112	mg/L	3.0	03/02/25 06:42	
EPA 6020B	Barium	0.068	mg/L	0.0050	03/20/25 10:42	
EPA 6020B	Boron	0.56	mg/L	0.20	03/20/25 19:39	
EPA 6020B	Calcium	30.1	mg/L	1.0	03/20/25 10:42	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	03/20/25 10:42	
EPA 6020B	Magnesium	25.1	mg/L	0.050	03/20/25 10:42	
EPA 6020B	Potassium	3.6	mg/L	0.50	03/20/25 10:42	
EPA 6020B	Sodium	15.8	mg/L	1.0	03/20/25 10:42	
92781915004	**YAT-YGWC-45**					
EPA 6020B	Lithium	0.0140J	mg/L	0.0300	03/12/25 16:07	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	114	mg/L	5.0	03/07/25 14:52	
SM 2320B-2011	Alkalinity, Total as CaCO3	114	mg/L	5.0	03/07/25 14:52	
SM 2540C-2015	Total Dissolved Solids	456	mg/L	25.0	03/05/25 12:28	
EPA 300.0 Rev 2.1 1993	Chloride	6.4	mg/L	1.0	03/01/25 22:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	03/01/25 22:32	
EPA 300.0 Rev 2.1 1993	Sulfate	161	mg/L	4.0	03/02/25 06:56	
EPA 6020B	Barium	0.051	mg/L	0.0050	03/20/25 10:56	
EPA 6020B	Boron	0.36J	mg/L	0.40	03/21/25 15:30	D3
EPA 6020B	Calcium	55.4	mg/L	1.0	03/20/25 10:56	
EPA 6020B	Magnesium	29.6	mg/L	0.050	03/20/25 10:56	
EPA 6020B	Potassium	8.0	mg/L	0.50	03/20/25 10:56	
EPA 6020B	Sodium	18.9	mg/L	1.0	03/20/25 10:56	
92781915005	**YAT-YGWC-46A**					
EPA 6020B	Lithium	0.0178J	mg/L	0.0300	03/12/25 16:10	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	98.2	mg/L	5.0	03/07/25 15:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	98.2	mg/L	5.0	03/07/25 15:00	
SM 2540C-2015	Total Dissolved Solids	1030	mg/L	50.0	03/05/25 12:28	
EPA 300.0 Rev 2.1 1993	Chloride	35.2	mg/L	1.0	03/01/25 22:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.075J	mg/L	0.10	03/01/25 22:47	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-1
Pace Project No.: 92781915

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781915005	**YAT-YGWC-46A**					
EPA 300.0 Rev 2.1 1993	Sulfate	463	mg/L	11.0	03/02/25 07:11	
EPA 6020B	Barium	0.046	mg/L	0.0050	03/20/25 11:01	
EPA 6020B	Boron	2.8	mg/L	0.80	03/20/25 19:57	
EPA 6020B	Calcium	132	mg/L	20.0	03/20/25 12:13	
EPA 6020B	Magnesium	72.7	mg/L	1.0	03/20/25 12:13	
EPA 6020B	Potassium	8.9	mg/L	0.50	03/20/25 11:01	
EPA 6020B	Sodium	43.6	mg/L	1.0	03/20/25 11:01	
92781915006	**YAT-AP1-FD-1**					
EPA 6020B	Lithium	0.0183J	mg/L	0.0300	03/12/25 16:19	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	97.8	mg/L	5.0	03/07/25 15:08	
SM 2320B-2011	Alkalinity, Total as CaCO3	97.8	mg/L	5.0	03/07/25 15:08	
SM 2540C-2015	Total Dissolved Solids	1000	mg/L	50.0	03/05/25 12:29	
EPA 300.0 Rev 2.1 1993	Chloride	35.2	mg/L	1.0	03/01/25 23:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.075J	mg/L	0.10	03/01/25 23:01	
EPA 300.0 Rev 2.1 1993	Sulfate	466	mg/L	11.0	03/02/25 07:26	
EPA 6020B	Barium	0.045	mg/L	0.0050	03/20/25 11:05	
EPA 6020B	Boron	2.6	mg/L	0.80	03/20/25 20:25	
EPA 6020B	Calcium	130	mg/L	20.0	03/20/25 12:18	
EPA 6020B	Magnesium	71.1	mg/L	1.0	03/20/25 12:18	
EPA 6020B	Potassium	8.9	mg/L	0.50	03/20/25 11:05	
EPA 6020B	Sodium	43.4	mg/L	1.0	03/20/25 11:05	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92781915

Sample: YAT-AP1-FB-1 **Lab ID: 92781915001** Collected: 02/25/25 17:20 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/12/25 10:46	03/12/25 15:47	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:06	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:41		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/04/25 13:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/04/25 16:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/28/25 00:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 00:13	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/28/25 00:13	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 17:45	03/20/25 10:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:33	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 10:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 17:45	03/20/25 19:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 10:33	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 10:33	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 10:33	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 10:33	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 10:33	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 10:33	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:33	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 10:33	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 10:33	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92781915

Sample: YAT-YGWC-52 **Lab ID: 92781915002** Collected: 02/26/25 09:35 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00364J**	mg/L	0.0300	0.000600	1	03/12/25 10:46	03/12/25 16:00	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:08	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**46.0**	mg/L	5.0	5.0	1		03/07/25 14:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 14:29		
Alkalinity, Total as CaCO3	**46.0**	mg/L	5.0	5.0	1		03/07/25 14:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**205**	mg/L	25.0	25.0	1		03/05/25 12:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.6**	mg/L	1.0	0.60	1		03/01/25 22:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 22:02	16984-48-8	
Sulfate	**86.6**	mg/L	1.0	0.50	1		03/01/25 22:02	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 17:45	03/20/25 10:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:37	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 10:37	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 17:45	03/20/25 19:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 10:37	7440-43-9	
Calcium	**32.3**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 10:37	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 10:37	7439-92-1	
Magnesium	**8.2**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 10:37	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 10:37	7439-98-7	
Potassium	**1.6**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 10:37	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:37	7782-49-2	
Sodium	**10.9**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 10:37	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 10:37	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92781915

Sample: YAT-YGWC-44 **Lab ID: 92781915003** Collected: 02/26/25 15:50 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0146J**	mg/L	0.0300	0.000600	1	03/12/25 10:46	03/12/25 16:03	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:14	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**66.7**	mg/L	5.0	5.0	1		03/07/25 14:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 14:35		
Alkalinity, Total as CaCO3	**66.7**	mg/L	5.0	5.0	1		03/07/25 14:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**309**	mg/L	25.0	25.0	1		03/05/25 12:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.7**	mg/L	1.0	0.60	1		03/01/25 22:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 22:17	16984-48-8	
Sulfate	**112**	mg/L	3.0	1.5	3		03/02/25 06:42	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 17:45	03/20/25 10:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:42	7440-38-2	
Barium	**0.068**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 10:42	7440-41-7	
Boron	**0.56**	mg/L	0.20	0.031	5	03/17/25 17:45	03/20/25 19:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 10:42	7440-43-9	
Calcium	**30.1**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 10:42	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:42	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 10:42	7439-92-1	
Magnesium	**25.1**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 10:42	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 10:42	7439-98-7	
Potassium	**3.6**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 10:42	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:42	7782-49-2	
Sodium	**15.8**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 10:42	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 10:42	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92781915

Sample: YAT-YGWC-45 **Lab ID: 92781915004** Collected: 02/26/25 11:36 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0140J**	mg/L	0.0300	0.000600	1	03/12/25 10:46	03/12/25 16:07	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:17	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**114**	mg/L	5.0	5.0	1		03/07/25 14:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 14:52		
Alkalinity, Total as CaCO3	**114**	mg/L	5.0	5.0	1		03/07/25 14:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**456**	mg/L	25.0	25.0	1		03/05/25 12:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.4**	mg/L	1.0	0.60	1		03/01/25 22:32	16887-00-6	
Fluoride	**0.069J**	mg/L	0.10	0.050	1		03/01/25 22:32	16984-48-8	
Sulfate	**161**	mg/L	4.0	2.0	4		03/02/25 06:56	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 17:45	03/20/25 10:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:56	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 10:56	7440-41-7	
Boron	**0.36J**	mg/L	0.40	0.062	10	03/17/25 17:45	03/21/25 15:30	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 10:56	7440-43-9	
Calcium	**55.4**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 10:56	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 10:56	7439-92-1	
Magnesium	**29.6**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 10:56	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 10:56	7439-98-7	
Potassium	**8.0**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 10:56	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:56	7782-49-2	
Sodium	**18.9**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 10:56	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 10:56	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92781915

Sample: YAT-YGWC-46A **Lab ID: 92781915005** Collected: 02/26/25 17:40 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0178J**	mg/L	0.0300	0.000600	1	03/12/25 10:46	03/12/25 16:10	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:19	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**98.2**	mg/L	5.0	5.0	1		03/07/25 15:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 15:00		
Alkalinity, Total as CaCO3	**98.2**	mg/L	5.0	5.0	1		03/07/25 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1030**	mg/L	50.0	50.0	1		03/05/25 12:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**35.2**	mg/L	1.0	0.60	1		03/01/25 22:47	16887-00-6	
Fluoride	**0.075J**	mg/L	0.10	0.050	1		03/01/25 22:47	16984-48-8	
Sulfate	**463**	mg/L	11.0	5.5	11		03/02/25 07:11	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 17:45	03/20/25 11:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:01	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:01	7440-41-7	
Boron	**2.8**	mg/L	0.80	0.12	20	03/17/25 17:45	03/20/25 19:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:01	7440-43-9	
Calcium	**132**	mg/L	20.0	2.0	20	03/17/25 17:45	03/20/25 12:13	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:01	7439-92-1	
Magnesium	**72.7**	mg/L	1.0	0.20	20	03/17/25 17:45	03/20/25 12:13	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:01	7439-98-7	
Potassium	**8.9**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:01	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:01	7782-49-2	
Sodium	**43.6**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:01	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:01	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92781915

Sample: YAT-AP1-FD-1 **Lab ID: 92781915006** Collected: 02/26/25 00:00 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0183J**	mg/L	0.0300	0.000600	1	03/12/25 10:46	03/12/25 16:19	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:21	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**97.8**	mg/L	5.0	5.0	1		03/07/25 15:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 15:08		
Alkalinity, Total as CaCO3	**97.8**	mg/L	5.0	5.0	1		03/07/25 15:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1000**	mg/L	50.0	50.0	1		03/05/25 12:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**35.2**	mg/L	1.0	0.60	1		03/01/25 23:01	16887-00-6	
Fluoride	**0.075J**	mg/L	0.10	0.050	1		03/01/25 23:01	16984-48-8	
Sulfate	**466**	mg/L	11.0	5.5	11		03/02/25 07:26	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 17:45	03/20/25 11:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:05	7440-38-2	
Barium	**0.045**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:05	7440-41-7	
Boron	**2.6**	mg/L	0.80	0.12	20	03/17/25 17:45	03/20/25 20:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:05	7440-43-9	
Calcium	**130**	mg/L	20.0	2.0	20	03/17/25 17:45	03/20/25 12:18	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:05	7439-92-1	
Magnesium	**71.1**	mg/L	1.0	0.20	20	03/17/25 17:45	03/20/25 12:18	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:05	7439-98-7	
Potassium	**8.9**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:05	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:05	7782-49-2	
Sodium	**43.4**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:05	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:05	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-1
Pace Project No.: 92781915

Sample: YAT-AP1-EB-1 **Lab ID: 92781915007** Collected: 02/26/25 16:30 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/12/25 10:46	03/12/25 16:23	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:27	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 15:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 15:16		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/07/25 15:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/05/25 12:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/01/25 13:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 13:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/01/25 13:19	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 17:45	03/20/25 11:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:10	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 17:45	03/20/25 20:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:10	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 11:10	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:10	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 11:10	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:10	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:10	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:10	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:10	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:10	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

QC Batch: 2467120
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92781915001, 92781915002, 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

METHOD BLANK: R4185619-1 Matrix: Water
Associated Lab Samples: 92781915001, 92781915002, 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/12/25 15:41	

LABORATORY CONTROL SAMPLE: R4185619-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0535	107	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4185619-4 R4185619-5

Parameter	Units	92781915001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	ND	0.0500	0.0500	0.0535	0.0517	107	103	75.0-125	3.44	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

QC Batch: 919473 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781915001, 92781915002, 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

METHOD BLANK: 4725187 Matrix: Water
Associated Lab Samples: 92781915001, 92781915002, 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	03/03/25 14:02	

LABORATORY CONTROL SAMPLE: 4725188

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4725189 4725190

Parameter	Units	92781915002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	95	98	75-125	3	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

QC Batch: 919795
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781915001

METHOD BLANK: 4726469 Matrix: Water
Associated Lab Samples: 92781915001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/04/25 12:51	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 12:51	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 12:51	

LABORATORY CONTROL SAMPLE: 4726470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4726471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4726472 4726473

Parameter	Units	92781183001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	42900	50	50	43300	43200	842	500	80-120	0	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4726474 4726475

Parameter	Units	92781183004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	33200	50	50	35600	34600	4920	2830	80-120	3	25	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

QC Batch: 920471 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781915002, 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

METHOD BLANK: 4729686 Matrix: Water
Associated Lab Samples: 92781915002, 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/07/25 13:52	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/07/25 13:52	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/07/25 13:52	

LABORATORY CONTROL SAMPLE: 4729687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.7	105	80-120	

LABORATORY CONTROL SAMPLE: 4729688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4729689 4729690

Parameter	Units	92782219004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	155	50	50	204	206	97	102	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4729691 4729692

Parameter	Units	92782219005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	51.5	51.8	103	103	80-120	1	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

QC Batch: 919710
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781915001

METHOD BLANK: 4726153 Matrix: Water
Associated Lab Samples: 92781915001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/04/25 16:45	

LABORATORY CONTROL SAMPLE: 4726154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4726155

Parameter	Units	92781909024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	51.0	52.0	2	25	

SAMPLE DUPLICATE: 4726156

Parameter	Units	92782188021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	219	213	3	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

QC Batch: 919958
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781915002

METHOD BLANK: 4727348 Matrix: Water
Associated Lab Samples: 92781915002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/05/25 12:40	

LABORATORY CONTROL SAMPLE: 4727349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	248	99	90-110	

SAMPLE DUPLICATE: 4727350

Parameter	Units	92782188024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	36.0	40.0	11	25	

SAMPLE DUPLICATE: 4727351

Parameter	Units	92781919007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	347	344	1	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

QC Batch: 919959 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

METHOD BLANK: 4727353 Matrix: Water
Associated Lab Samples: 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/05/25 12:28	

LABORATORY CONTROL SAMPLE: 4727354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	101	90-110	

SAMPLE DUPLICATE: 4727355

Parameter	Units	92781915003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	309	309	0	25	

SAMPLE DUPLICATE: 4727356

Parameter	Units	92782219006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

QC Batch: 919137
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781915001

METHOD BLANK: 4723565 Matrix: Water
Associated Lab Samples: 92781915001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/27/25 22:28	
Fluoride	mg/L	ND	0.10	0.050	02/27/25 22:28	
Sulfate	mg/L	ND	1.0	0.50	02/27/25 22:28	

LABORATORY CONTROL SAMPLE: 4723566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723567 4723568

Parameter	Units	92781909015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	54.6	58.4	101	108	90-110	7	10	
Fluoride	mg/L	0.052J	2.5	2.5	2.6	2.6	102	102	90-110	0	10	
Sulfate	mg/L	6.5	50	50	57.9	61.7	103	110	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723569 4723570

Parameter	Units	92781915001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	48.3	53.1	97	106	90-110	10	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.6	96	106	90-110	10	10	
Sulfate	mg/L	ND	50	50	48.5	53.4	97	107	90-110	10	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

QC Batch: 919451
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781915002, 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

METHOD BLANK: 4725110 Matrix: Water
Associated Lab Samples: 92781915002, 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/01/25 21:17	
Fluoride	mg/L	ND	0.10	0.050	03/01/25 21:17	
Sulfate	mg/L	ND	1.0	0.50	03/01/25 21:17	

LABORATORY CONTROL SAMPLE: 4725111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.0	104	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4725112 4725113

Parameter	Units	92781919014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.3	49.1	99	98	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.3	95	93	90-110	2	10	
Sulfate	mg/L	ND	50	50	47.2	47.0	94	94	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4725114 4725115

Parameter	Units	92782219003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.1	50	50	60.3	60.6	100	101	90-110	1	10	
Fluoride	mg/L	0.067J	2.5	2.5	2.4	2.4	94	95	90-110	1	10	
Sulfate	mg/L	8.8	50	50	56.7	57.1	96	97	90-110	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

QC Batch: 922646
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92781915001, 92781915002, 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

METHOD BLANK: 4740655 Matrix: Water
Associated Lab Samples: 92781915001, 92781915002, 92781915003, 92781915004, 92781915005, 92781915006, 92781915007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/20/25 10:00	
Arsenic	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Barium	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Beryllium	mg/L	ND	0.00050	0.00015	03/20/25 10:00	
Boron	mg/L	ND	0.040	0.0062	03/20/25 16:38	
Cadmium	mg/L	ND	0.00050	0.00012	03/20/25 10:00	
Calcium	mg/L	ND	1.0	0.10	03/20/25 10:00	
Chromium	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Cobalt	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Lead	mg/L	ND	0.0010	0.00025	03/20/25 10:00	
Magnesium	mg/L	ND	0.050	0.010	03/20/25 10:00	
Molybdenum	mg/L	ND	0.010	0.0025	03/20/25 10:00	
Potassium	mg/L	ND	0.50	0.10	03/20/25 10:00	
Selenium	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Sodium	mg/L	ND	1.0	0.15	03/20/25 10:00	
Thallium	mg/L	ND	0.0010	0.00015	03/20/25 10:00	

LABORATORY CONTROL SAMPLE: 4740656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	0.1	0.099	99	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Calcium	mg/L	1	1.0	105	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Lead	mg/L	0.1	0.11	106	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Potassium	mg/L	1	1.1	108	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Sodium	mg/L	1	1.0	104	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-1
Pace Project No.: 92781915

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4740667 4740668

Parameter	Units	92779989005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Barium	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Boron	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Calcium	mg/L	ND	1	1	1.0	1.0	104	101	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20	
Magnesium	mg/L	ND	1	1	1.0	1.0	101	100	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	0	20	
Potassium	mg/L	ND	1	1	1.0	1.0	102	105	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Sodium	mg/L	ND	1	1	1.0	1.0	104	102	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT AP-1
Pace Project No.: 92781915

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-1
Pace Project No.: 92781915

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781915001	**YAT-AP1-FB-1**	3015	2467120	EPA 6020B	2467120
92781915002	**YAT-YGWC-52**	3015	2467120	EPA 6020B	2467120
92781915003	**YAT-YGWC-44**	3015	2467120	EPA 6020B	2467120
92781915004	**YAT-YGWC-45**	3015	2467120	EPA 6020B	2467120
92781915005	**YAT-YGWC-46A**	3015	2467120	EPA 6020B	2467120
92781915006	**YAT-AP1-FD-1**	3015	2467120	EPA 6020B	2467120
92781915007	**YAT-AP1-EB-1**	3015	2467120	EPA 6020B	2467120
92781915001	**YAT-AP1-FB-1**	EPA 7470A	919473	EPA 7470A	919512
92781915002	**YAT-YGWC-52**	EPA 7470A	919473	EPA 7470A	919512
92781915003	**YAT-YGWC-44**	EPA 7470A	919473	EPA 7470A	919512
92781915004	**YAT-YGWC-45**	EPA 7470A	919473	EPA 7470A	919512
92781915005	**YAT-YGWC-46A**	EPA 7470A	919473	EPA 7470A	919512
92781915006	**YAT-AP1-FD-1**	EPA 7470A	919473	EPA 7470A	919512
92781915007	**YAT-AP1-EB-1**	EPA 7470A	919473	EPA 7470A	919512
92781915001	**YAT-AP1-FB-1**	SM 2320B-2011	919795		
92781915002	**YAT-YGWC-52**	SM 2320B-2011	920471		
92781915003	**YAT-YGWC-44**	SM 2320B-2011	920471		
92781915004	**YAT-YGWC-45**	SM 2320B-2011	920471		
92781915005	**YAT-YGWC-46A**	SM 2320B-2011	920471		
92781915006	**YAT-AP1-FD-1**	SM 2320B-2011	920471		
92781915007	**YAT-AP1-EB-1**	SM 2320B-2011	920471		
92781915001	**YAT-AP1-FB-1**	SM 2540C-2015	919710		
92781915002	**YAT-YGWC-52**	SM 2540C-2015	919958		
92781915003	**YAT-YGWC-44**	SM 2540C-2015	919959		
92781915004	**YAT-YGWC-45**	SM 2540C-2015	919959		
92781915005	**YAT-YGWC-46A**	SM 2540C-2015	919959		
92781915006	**YAT-AP1-FD-1**	SM 2540C-2015	919959		
92781915007	**YAT-AP1-EB-1**	SM 2540C-2015	919959		
92781915001	**YAT-AP1-FB-1**	EPA 300.0 Rev 2.1 1993	919137		
92781915002	**YAT-YGWC-52**	EPA 300.0 Rev 2.1 1993	919451		
92781915003	**YAT-YGWC-44**	EPA 300.0 Rev 2.1 1993	919451		
92781915004	**YAT-YGWC-45**	EPA 300.0 Rev 2.1 1993	919451		
92781915005	**YAT-YGWC-46A**	EPA 300.0 Rev 2.1 1993	919451		
92781915006	**YAT-AP1-FD-1**	EPA 300.0 Rev 2.1 1993	919451		
92781915007	**YAT-AP1-EB-1**	EPA 300.0 Rev 2.1 1993	919451		
92781915001	**YAT-AP1-FB-1**	EPA 3005A	922646	EPA 6020B	923912
92781915002	**YAT-YGWC-52**	EPA 3005A	922646	EPA 6020B	923912
92781915003	**YAT-YGWC-44**	EPA 3005A	922646	EPA 6020B	923912
92781915004	**YAT-YGWC-45**	EPA 3005A	922646	EPA 6020B	923912
92781915005	**YAT-YGWC-46A**	EPA 3005A	922646	EPA 6020B	923912
92781915006	**YAT-AP1-FD-1**	EPA 3005A	922646	EPA 6020B	923912
92781915007	**YAT-AP1-EB-1**	EPA 3005A	922646	EPA 6020B	923912

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

WO# : 92781915

92781915

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/26/25 (KM)

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 1.2

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1:
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace Analytical Services

DC#_Title: ENV-FRM-...

Effective Date: 05/24/2024

WO# : 92781915

PM: BV Due Date: 03/12/25

CLIENT: 92-GP-Yates

Project #

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGBU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	[illegible] mL Amber Unpreserved vials (N/A)
CC																												
1		2	1		2*	2*																						
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92781915

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-1	Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

Identify Container Preservative Type***: 2 1 1 2 1

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-52	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-44	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-45	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-46A	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP1-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP1-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP1-FB-1	WG	G	2/25/25	1720	—	—		7		X	X	X	X	X	See Remarks GW1

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Perry Sundebaker
Printed Name: (Arcadis) -
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Sundebaker / Arcadis	2/26/25 0830	[illegible] ARCADIS	2/26/25 0830
[illegible] ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[illegible]	2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/22/25 EDH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1:
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☑ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG0U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1		2		2																						
2		2	1		2		2																						
3		2	1		2		2																						
4		2	1		2		2																						
5		2	1		2		2																						
6		3	1		2		2																						
7		2	1		2		2																						
8		2	1		2		2																						
9		2	1		2		2																						
10		2	1		2		2																						
11		2	1		2		2																						
12		2	1		2		2																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																												
1		2	1		2		2																					
2		2	1		2		2																					
3		2	1		2		2																					
4		2	1		2		2																					
5		2	1		2		2																					
6		2	1		2		2																					
7		2	1		2		2																					
8		2	1		2		2																					
9		2	1		2		2																					
10		2	1		2		2																					
11		2	1		2		2																					
12		2	1		2		2																					

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, Incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2*		2*																							
2		2	1		2*		2*																							
3		2	1		2*		2*																							
4		2			2*		2*																							
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Page 2 of 2

Qualtrax ID: 69614

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92781915

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-1	Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-52	WG	G	2/26/25	0935				7		X	X	X	X	X	See Remarks 002
YAT-YGWC-44	WG	G	2/26/25	1550				7		X	X	X	X	X	See Remarks 003
YAT-YGWC-45	WG	G	2/26/25	1136				7		X	X	X	X	X	See Remarks 004
YAT-YGWC-45A	WG	G	2/26/25	1740				7		X	X	X	X	X	See Remarks 005
YAT-AP1-FD-1	WG	G	2/26/25	—				7		X	X	X	X	X	See Remarks 006
YAT-AP1-EB-1	WG	G	2/26/25	1630				7		X	X	X	X	X	See Remarks 007
YAT-AP1-FB-1	WG	G						7		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/27/25 0800	Joshua Dan / Arcadis	2/27/25 0800
Joshua Dan / Arcadis	2/27/25 1005	Tyan Williams / Pace	2/27/25 1005
Tyan Williams / Pace	2/27/25 1340	Chuck Hunt 2/27/25	7340

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 21, 2025

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-1-RADs
Pace Project No.: 92781916

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between February 26, 2025 and February 27, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92781916001	**YAT-AP1-FB-1**	Water	02/25/25 17:20	02/26/25 13:55
92781916002	**YAT-YGWC-52**	Water	02/26/25 09:35	02/27/25 13:40
92781916003	**YAT-YGWC-44**	Water	02/26/25 15:50	02/27/25 13:40
92781916004	**YAT-YGWC-45**	Water	02/26/25 11:36	02/27/25 13:40
92781916005	**YAT-YGWC-46A**	Water	02/26/25 17:40	02/27/25 13:40
92781916006	**YAT-AP1-FD-1**	Water	02/26/25 00:00	02/27/25 13:40
92781916007	**YAT-AP1-EB-1**	Water	02/26/25 16:30	02/27/25 13:40

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92781916001	**YAT-AP1-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781916002	**YAT-YGWC-52**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781916003	**YAT-YGWC-44**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781916004	**YAT-YGWC-45**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781916005	**YAT-YGWC-46A**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781916006	**YAT-AP1-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781916007	**YAT-AP1-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781916001	**YAT-AP1-FB-1**					
EPA 9315	Radium-226	0.0694U ± 0.116 (0.259) C:73% T:NA	pCi/L		03/19/25 15:21	
EPA 9320	Radium-228	-0.0275U ± 0.274 (0.653) C:81% T:87%	pCi/L		03/19/25 14:13	
Total Radium Calculation	Total Radium	0.0694U ± 0.390 (0.912)	pCi/L		03/21/25 15:41	
92781916002	**YAT-YGWC-52**					
EPA 9315	Radium-226	-0.0133U ± 0.122 (0.320) C:83% T:NA	pCi/L		03/20/25 13:35	
EPA 9320	Radium-228	0.841U ± 0.517 (0.981) C:74% T:88%	pCi/L		03/20/25 10:55	
Total Radium Calculation	Total Radium	0.841U ± 0.639 (1.30)	pCi/L		03/21/25 15:45	
92781916003	**YAT-YGWC-44**					
EPA 9315	Radium-226	0.0352U ± 0.122 (0.297) C:81% T:NA	pCi/L		03/20/25 13:35	
EPA 9320	Radium-228	0.936U ± 0.518 (0.960) C:73% T:88%	pCi/L		03/20/25 14:07	
Total Radium Calculation	Total Radium	0.971U ± 0.640 (1.26)	pCi/L		03/21/25 15:45	
92781916004	**YAT-YGWC-45**					
EPA 9315	Radium-226	0.679 ± 0.245 (0.280) C:76% T:NA	pCi/L		03/20/25 13:35	
EPA 9320	Radium-228	0.813U ± 0.567 (1.10) C:67% T:80%	pCi/L		03/20/25 14:38	
Total Radium Calculation	Total Radium	1.49 ± 0.812 (1.38)	pCi/L		03/21/25 15:45	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781916005	**YAT-YGWC-46A**					
EPA 9315	Radium-226	1.18 ± 0.326 (0.298) C:82% T:NA	pCi/L		03/20/25 13:36	
EPA 9320	Radium-228	2.51 ± 0.797 (1.09) C:69% T:87%	pCi/L		03/20/25 14:07	
Total Radium Calculation	Total Radium	3.69 ± 1.12 (1.39)	pCi/L		03/21/25 15:45	
92781916006	**YAT-AP1-FD-1**					
EPA 9315	Radium-226	1.31 ± 0.335 (0.224) C:85% T:NA	pCi/L		03/20/25 13:31	
EPA 9320	Radium-228	1.47 ± 0.590 (0.948) C:71% T:93%	pCi/L		03/20/25 14:38	
Total Radium Calculation	Total Radium	2.78 ± 0.925 (1.17)	pCi/L		03/21/25 15:45	
92781916007	**YAT-AP1-EB-1**					
EPA 9315	Radium-226	-0.00788U ± 0.121 (0.318) C:76% T:NA	pCi/L		03/20/25 13:31	
EPA 9320	Radium-228	0.751U ± 0.445 (0.827) C:71% T:98%	pCi/L		03/20/25 14:38	
Total Radium Calculation	Total Radium	0.751U ± 0.566 (1.15)	pCi/L		03/21/25 15:45	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Sample: YAT-AP1-FB-1 **Lab ID: 92781916001** Collected: 02/25/25 17:20 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0694U ± 0.116 (0.259) C:73% T:NA**	pCi/L	03/19/25 15:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0275U ± 0.274 (0.653) C:81% T:87%**	pCi/L	03/19/25 14:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0694U ± 0.390 (0.912)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Sample: YAT-YGWC-52 **Lab ID: 92781916002** Collected: 02/26/25 09:35 Received: 02/27/25 13:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0133U ± 0.122 (0.320) C:83% T:NA**	pCi/L	03/20/25 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.841U ± 0.517 (0.981) C:74% T:88%**	pCi/L	03/20/25 10:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.841U ± 0.639 (1.30)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Sample: YAT-YGWC-44 **Lab ID: 92781916003** Collected: 02/26/25 15:50 Received: 02/27/25 13:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0352U ± 0.122 (0.297) C:81% T:NA**	pCi/L	03/20/25 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.936U ± 0.518 (0.960) C:73% T:88%**	pCi/L	03/20/25 14:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.971U ± 0.640 (1.26)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Sample: YAT-YGWC-45 **Lab ID: 92781916004** Collected: 02/26/25 11:36 Received: 02/27/25 13:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.679 ± 0.245 (0.280) C:76% T:NA**	pCi/L	03/20/25 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.813U ± 0.567 (1.10) C:67% T:80%**	pCi/L	03/20/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.49 ± 0.812 (1.38)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Sample: YAT-YGWC-46A **Lab ID: 92781916005** Collected: 02/26/25 17:40 Received: 02/27/25 13:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.18 ± 0.326 (0.298) C:82% T:NA**	pCi/L	03/20/25 13:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.51 ± 0.797 (1.09) C:69% T:87%**	pCi/L	03/20/25 14:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.69 ± 1.12 (1.39)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Sample: YAT-AP1-FD-1 **Lab ID: 92781916006** Collected: 02/26/25 00:00 Received: 02/27/25 13:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.31 ± 0.335 (0.224) C:85% T:NA**	pCi/L	03/20/25 13:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.47 ± 0.590 (0.948) C:71% T:93%**	pCi/L	03/20/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.78 ± 0.925 (1.17)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Sample: YAT-AP1-EB-1 **Lab ID: 92781916007** Collected: 02/26/25 16:30 Received: 02/27/25 13:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00788U ± 0.121 (0.318) C:76% T:NA**	pCi/L	03/20/25 13:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.751U ± 0.445 (0.827) C:71% T:98%**	pCi/L	03/20/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.751U ± 0.566 (1.15)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

QC Batch: 730120
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781916001

METHOD BLANK: 3553852 Matrix: Water
Associated Lab Samples: 92781916001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.612 ± 0.395 (0.745) C:80% T:84%	pCi/L	03/19/25 14:13	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

QC Batch: 730410 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781916002, 92781916003, 92781916004, 92781916005, 92781916006, 92781916007

METHOD BLANK: 3555194 Matrix: Water
Associated Lab Samples: 92781916002, 92781916003, 92781916004, 92781916005, 92781916006, 92781916007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0615 ± 0.123 (0.285) C:86% T:NA	pCi/L	03/20/25 11:32	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

QC Batch: 730117
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781916001

METHOD BLANK: 3553848 Matrix: Water
Associated Lab Samples: 92781916001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0406 ± 0.152 (0.373) C:63% T:NA	pCi/L	03/19/25 15:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1-RADs
Pace Project No.: 92781916

QC Batch: 730407 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781916002, 92781916003, 92781916004, 92781916005, 92781916006, 92781916007

METHOD BLANK: 3555191 Matrix: Water
Associated Lab Samples: 92781916002, 92781916003, 92781916004, 92781916005, 92781916006, 92781916007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.660 ± 0.368 (0.662) C:76% T:91%	pCi/L	03/20/25 10:54	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT AP-1-RADs
Pace Project No.: 92781916

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-1-RADs
Pace Project No.: 92781916

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781916001	**YAT-AP1-FB-1**	EPA 9315	730117		
92781916002	**YAT-YGWC-52**	EPA 9315	730410		
92781916003	**YAT-YGWC-44**	EPA 9315	730410		
92781916004	**YAT-YGWC-45**	EPA 9315	730410		
92781916005	**YAT-YGWC-46A**	EPA 9315	730410		
92781916006	**YAT-AP1-FD-1**	EPA 9315	730410		
92781916007	**YAT-AP1-EB-1**	EPA 9315	730410		
92781916001	**YAT-AP1-FB-1**	EPA 9320	730120		
92781916002	**YAT-YGWC-52**	EPA 9320	730407		
92781916003	**YAT-YGWC-44**	EPA 9320	730407		
92781916004	**YAT-YGWC-45**	EPA 9320	730407		
92781916005	**YAT-YGWC-46A**	EPA 9320	730407		
92781916006	**YAT-AP1-FD-1**	EPA 9320	730407		
92781916007	**YAT-AP1-EB-1**	EPA 9320	730407		
92781916001	**YAT-AP1-FB-1**	Total Radium Calculation	734606		
92781916002	**YAT-YGWC-52**	Total Radium Calculation	734608		
92781916003	**YAT-YGWC-44**	Total Radium Calculation	734608		
92781916004	**YAT-YGWC-45**	Total Radium Calculation	734608		
92781916005	**YAT-YGWC-46A**	Total Radium Calculation	734608		
92781916006	**YAT-AP1-FD-1**	Total Radium Calculation	734608		
92781916007	**YAT-AP1-EB-1**	Total Radium Calculation	734608		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92781916

92781916

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/26/25 (ewj)

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 1.2

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1:
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-...

Effective Date: 05/24/2024

WO#: 92781916

PM: BV Due Date: 03/19/25

CLIENT: 92-GP-Yates

Project #

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Itemid	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1S-1 liter Plastic H2SO4 (pH < 2) (Cl-)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	[illegible] mL Amber Unpreserved vials (N/A)
CC					BP1N																							
1		2	1		2		2																					
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92781916

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-1		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1 3

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

Identify Container Preservative Type***: 2 1 1 2 1

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-52	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-44	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-45	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-46A	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP1-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP1-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP1-FB-1	WG	G	2/25/25	1720				7		X	X	X	X	X	See Remarks OUI

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Snyderbaker
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) Perry Snyderbaker / Arcadis	2/26/25 0830	Received by/Company: (Signature) Arcadis	2/26/25 0830
Relinquished by/Company: (Signature) Arcadis	2/26/25 1143	Received by/Company: (Signature) Ryan Williams / Pace	2/26/25 1143
Relinquished by/Company: (Signature) Ryan Williams / Pace	2/26/25 1355	Received by/Company: (Signature)	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/22/25 EDH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.3

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1:
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☑ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC					6211																								
1		2	1		2		2																						
2		2	1		2		2																						
3		2	1		2		2																						
4		2	1		2		2																						
5		2	1		2		2																						
6		3	1		2		2																						
7		2	1		2		2																						
8		2	1		2		2																						
9		2	1		2		2																						
10		2	1		2		2																						
11		2	1		2		2																						
12		2	1		2		2																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUNT-0083 v03_Sample...

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

aboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

lient_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP2Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC					1671																									
1		2	1		2		2																							
2		2	1		2		2																							
3		2	1		2		2																							
4		2	1		2		2																							
5		2	1		2		2																							
6		2	1		2		2																							
7		2	1		2		2																							
8		2	1		2		2																							
9		2	1		2		2																							
10		2	1		2		2																							
11		2	1		2		2																							
12		2	1		2		2																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	15[1]N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		2																							
2		2	1		2		2																							
3		2	1		2		2																							
4		2			2		2																							
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92781916

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-1		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program: (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Sample Comment
YAT YGWC-52	WG	G	2/26/25	0935				7		X	X	X	X	X	See Remarks 002
YAT-YGWC-44	WG	G	2/26/25	1550				7		X	X	X	X	X	See Remarks 003
YAT-YGWC-45	WG	G	2/26/25	1136				7		X	X	X	X	X	See Remarks 004
YAT-YGWC-46A	WG	G	2/26/25	1740				7		X	X	X	X	X	See Remarks 005
YAT-AP1-FD-1	WG	G	2/26/25	—				7		X	X	X	X	X	See Remarks 006
YAT-AP1-EB-1	WG	G	2/26/25	1630				7		X	X	X	X	X	See Remarks 007
YAT-AP1-FB-1	WG	G						7		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/27/25 0800	[illegible] / Arcadis	2/27/25 0800
[illegible] / Arcadis	2/27/25 1005	Tyan Williams / Pace	2/27/25 1005
Tyan Williams / Pace	2/27/25 1340	[illegible]	2/27/25 1340

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	3/6/2025
Worklist:	83863
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3553852
MB concentration:	0.612
M/B 2 Sigma CSU:	0.395
MB MDC:	0.745
MB Numerical Performance Indicator:	3.04
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83863	**LCSD83863**
Count Date:	3/19/2025	3/19/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.193	33.193
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.817
Target Conc. (pCi/L, g, F):	4.059	4.064
Uncertainty (Calculated):	0.199	0.199
Result (pCi/L, g, F):	3.620	4.765
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.970	1.179
Numerical Performance Indicator:	-0.87	1.15
Percent Recovery:	89.18%	117.25%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83863	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83863	
Sample Result (pCi/L, g, F):	3.620	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.970	
Sample Duplicate Result (pCi/L, g, F):	4.765	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.179	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.470	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	27.20%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~

MB passes vs ~~recovery~~ activity < MDC

VAL 3/20/25

VAL
3/20/25

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 3/7/2025
Worklist: 83888
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3555191
MB concentration:	0.660
M/B 2 Sigma CSU:	0.368
MB MDC:	0.662
MB Numerical Performance Indicator:	3.52
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83888	LCSD83888
Count Date:	3/20/2025	3/20/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.182	33.182
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.820
Target Conc. (pCi/L, g, F):	4.068	4.046
Uncertainty (Calculated):	0.199	0.198
Result (pCi/L, g, F):	3.452	3.288
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.832	0.806
Numerical Performance Indicator:	-1.41	-1.79
Percent Recovery:	84.85%	81.26%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83888	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83888	
Sample Result (pCi/L, g, F):	3.452	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.832	
Sample Duplicate Result (pCi/L, g, F):	3.288	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.806	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.278	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.33%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~

MB activity < MDC, pass

VAL 3/21/25

3/21/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/9/2025
Worklist:	83862
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3553848
MB concentration:	0.041
M/B 2 Sigma CSU:	0.152
MB MDC:	0.373
MB Numerical Performance Indicator:	0.52
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83862	**LCSD83862**
Count Date:	3/21/2025	3/20/2025
Spike I.D.:	24-046	24-046
Decay Corrected Spike Concentration (pCi/mL):	31.833	31.833
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.508
Target Conc. (pCi/L, g, F):	6.238	6.272
Uncertainty (Calculated):	0.293	0.295
Result (pCi/L, g, F):	5.033	4.963
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.906	0.895
Numerical Performance Indicator:	-2.48	-2.73
Percent Recovery:	80.68%	79.12%
Status vs Numerical Indicator:	Warning	Warning
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83862	92781920001
Duplicate Sample I.D.	LCSD83862	92781920001DUP
Sample Result (pCi/L, g, F):	5.033	0.339
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.906	0.220
Sample Duplicate Result (pCi/L, g, F):	4.963	0.352
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.895	0.182
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.108	-0.088
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.95%	3.72%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

KT 3-21-25

VAM 3/21/25

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/10/2025
Worklist:	83889
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3555194
MB concentration:	0.062
M/B 2 Sigma CSU:	0.123
MB MDC:	0.285
MB Numerical Performance Indicator:	0.98
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83889	LCSD83889
Count Date:	3/20/2025	3/20/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.014	25.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.510
Target Conc. (pCi/L, g, F):	4.901	4.903
Uncertainty (Calculated):	0.230	0.230
Result (pCi/L, g, F):	5.152	5.817
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.903	1.012
Numerical Performance Indicator:	0.53	1.73
Percent Recovery:	105.12%	118.64%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83889	92781912019
Duplicate Sample I.D.	LCSD83889	92781912019DUP
Sample Result (pCi/L, g, F):	5.152	0.168
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.903	0.145
Sample Duplicate Result (pCi/L, g, F):	5.817	0.100
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.012	0.110
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.960	0.732
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.08%	50.87%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

UAM 3/21/25

CT 3-21-25

Upgradient Wells

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 24, 2025

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92781909001	**YAT-YGWA-17S**	Water	02/25/25 13:05	02/26/25 13:55
92781909002	**YAT-YGWA-18S**	Water	02/25/25 10:12	02/26/25 13:55
92781909003	**YAT-YGWA-18I**	Water	02/25/25 12:10	02/26/25 13:55
92781909004	**YAT-YGWA-39**	Water	02/25/25 15:22	02/26/25 13:55
92781909005	**YAT-YGWA-40**	Water	02/25/25 14:21	02/26/25 13:55
92781909006	**YAT-UGRD-FD-2**	Water	02/25/25 00:00	02/26/25 13:55
92781909007	**YAT-YGWA-21I**	Water	02/25/25 14:15	02/26/25 13:55
92781909008	**YAT-YGWA-4I**	Water	02/25/25 09:48	02/26/25 13:55
92781909009	**YAT-YGWA-5I**	Water	02/25/25 10:57	02/26/25 13:55
92781909010	**YAT-YGWA-5D**	Water	02/25/25 11:56	02/26/25 13:55
92781909011	**YAT-YGWA-20S**	Water	02/25/25 15:48	02/26/25 13:55
92781909012	**YAT-UGRD-EB-2**	Water	02/25/25 16:10	02/26/25 13:55
92781909013	**YAT-UGRD-FB-2**	Water	02/25/25 12:06	02/26/25 13:55
92781909014	**YAT-YGWA-30I**	Water	02/25/25 14:55	02/26/25 13:55
92781909015	**YAT-YGWA-14S**	Water	02/25/25 13:00	02/26/25 13:55
92781909016	**YAT-YGWA-2I**	Water	02/25/25 11:25	02/26/25 13:55
92781909017	**YAT-YGWA-47**	Water	02/25/25 16:55	02/26/25 13:55
92781909018	**YAT-UGRD-FB-1**	Water	02/25/25 15:35	02/26/25 13:55
92781909019	**YAT-YGWA-1I**	Water	02/25/25 16:40	02/26/25 13:55
92781909020	**YAT-YGWA-1D**	Water	02/25/25 14:25	02/26/25 13:55
92781909021	**YAT-YGWA-3I**	Water	02/25/25 12:10	02/26/25 13:55
92781909022	**YAT-YGWA-3D**	Water	02/25/25 10:30	02/26/25 13:55
92781909023	**YAT-UGRD-EB-1**	Water	02/25/25 17:30	02/26/25 13:55
92781909024	**YAT-UGRD-FD-1**	Water	02/25/25 00:00	02/26/25 13:55

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92781909001	**YAT-YGWA-17S**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909002	**YAT-YGWA-18S**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909003	**YAT-YGWA-18I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909004	**YAT-YGWA-39**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909005	**YAT-YGWA-40**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909006	**YAT-UGRD-FD-2**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909007	**YAT-YGWA-21I**	EPA 6020B	JPD	1	PAN

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909008	**YAT-YGWA-4I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909009	**YAT-YGWA-5I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909010	**YAT-YGWA-5D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909011	**YAT-YGWA-20S**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909012	**YAT-UGRD-EB-2**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909013	**YAT-UGRD-FB-2**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909014	**YAT-YGWA-30I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909015	**YAT-YGWA-14S**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909016	**YAT-YGWA-2I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909017	**YAT-YGWA-47**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909018	**YAT-UGRD-FB-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909019	**YAT-YGWA-1I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909020	**YAT-YGWA-1D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909021	**YAT-YGWA-3I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909022	**YAT-YGWA-3D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909023	**YAT-UGRD-EB-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909024	**YAT-UGRD-FD-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909001	**YAT-YGWA-17S**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.3	mg/L	5.0	02/28/25 23:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.3	mg/L	5.0	02/28/25 23:32	
SM 2540C-2015	Total Dissolved Solids	93.0	mg/L	25.0	03/03/25 23:06	
EPA 300.0 Rev 2.1 1993	Chloride	11.4	mg/L	1.0	02/28/25 04:11	
EPA 300.0 Rev 2.1 1993	Sulfate	3.6	mg/L	1.0	02/28/25 04:11	
EPA 6020B	Barium	0.018	mg/L	0.0050	03/19/25 11:49	
EPA 6020B	Boron	0.0093J	mg/L	0.040	03/20/25 01:19	
EPA 6020B	Calcium	3.0	mg/L	1.0	03/19/25 11:49	
EPA 6020B	Magnesium	1.0	mg/L	0.050	03/19/25 11:49	
EPA 6020B	Potassium	0.41J	mg/L	0.50	03/19/25 11:49	
EPA 6020B	Sodium	15.0	mg/L	1.0	03/19/25 11:49	
92781909002	**YAT-YGWA-18S**					
EPA 6020B	Lithium	0.00129J	mg/L	0.0300	03/13/25 14:18	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.3	mg/L	5.0	02/28/25 23:37	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.3	mg/L	5.0	02/28/25 23:37	
SM 2540C-2015	Total Dissolved Solids	69.0	mg/L	25.0	03/03/25 23:06	
EPA 300.0 Rev 2.1 1993	Chloride	6.5	mg/L	1.0	02/28/25 04:26	
EPA 300.0 Rev 2.1 1993	Sulfate	0.59J	mg/L	1.0	02/28/25 04:26	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/19/25 11:54	
EPA 6020B	Calcium	0.88J	mg/L	1.0	03/19/25 11:54	
EPA 6020B	Magnesium	0.94	mg/L	0.050	03/19/25 11:54	
EPA 6020B	Potassium	0.52	mg/L	0.50	03/19/25 11:54	
EPA 6020B	Sodium	8.8	mg/L	1.0	03/19/25 11:54	
92781909003	**YAT-YGWA-18I**					
EPA 6020B	Lithium	0.00373J	mg/L	0.0300	03/13/25 14:21	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	35.3	mg/L	5.0	02/28/25 23:42	
SM 2320B-2011	Alkalinity, Total as CaCO3	35.3	mg/L	5.0	02/28/25 23:42	
SM 2540C-2015	Total Dissolved Solids	110	mg/L	25.0	03/03/25 23:06	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	02/28/25 04:41	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/19/25 12:00	
EPA 6020B	Calcium	5.3	mg/L	1.0	03/19/25 12:00	
EPA 6020B	Magnesium	3.0	mg/L	0.050	03/19/25 12:00	
EPA 6020B	Potassium	1.0	mg/L	0.50	03/19/25 12:00	
EPA 6020B	Sodium	12.2	mg/L	1.0	03/19/25 12:00	
92781909004	**YAT-YGWA-39**					
EPA 6020B	Lithium	0.00608J	mg/L	0.0300	03/13/25 14:24	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	185	mg/L	5.0	03/04/25 20:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	185	mg/L	5.0	03/04/25 20:00	
SM 2540C-2015	Total Dissolved Solids	228	mg/L	25.0	03/04/25 16:37	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/28/25 04:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	02/28/25 04:56	
EPA 300.0 Rev 2.1 1993	Sulfate	6.5	mg/L	1.0	02/28/25 04:56	
EPA 6020B	Barium	0.031	mg/L	0.0050	03/19/25 12:05	
EPA 6020B	Boron	0.13	mg/L	0.040	03/20/25 01:46	
EPA 6020B	Calcium	17.3	mg/L	1.0	03/19/25 12:05	
EPA 6020B	Magnesium	22.3	mg/L	0.050	03/19/25 12:05	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909004	**YAT-YGWA-39**					
EPA 6020B	Molybdenum	0.0056J	mg/L	0.010	03/19/25 12:05	
EPA 6020B	Potassium	6.0	mg/L	0.50	03/19/25 12:05	
EPA 6020B	Sodium	25.2	mg/L	1.0	03/19/25 12:05	
92781909005	**YAT-YGWA-40**					
EPA 6020B	Lithium	0.000836J	mg/L	0.0300	03/13/25 14:27	J
EPA 7470A	Mercury	0.00034	mg/L	0.00020	03/02/25 14:48	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	22.5	mg/L	5.0	02/28/25 23:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	22.5	mg/L	5.0	02/28/25 23:47	
SM 2540C-2015	Total Dissolved Solids	86.0	mg/L	25.0	03/04/25 16:37	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/28/25 05:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/28/25 05:10	
EPA 300.0 Rev 2.1 1993	Sulfate	15.4	mg/L	1.0	02/28/25 05:10	
EPA 6020B	Barium	0.031	mg/L	0.0050	03/19/25 12:10	
EPA 6020B	Beryllium	0.00018J	mg/L	0.00050	03/19/25 12:10	
EPA 6020B	Boron	0.061	mg/L	0.040	03/20/25 01:55	
EPA 6020B	Calcium	4.8	mg/L	1.0	03/19/25 12:10	
EPA 6020B	Magnesium	2.8	mg/L	0.050	03/19/25 12:10	
EPA 6020B	Potassium	2.0	mg/L	0.50	03/19/25 12:10	
EPA 6020B	Sodium	9.7	mg/L	1.0	03/19/25 12:10	
92781909006	**YAT-UGRD-FD-2**					
EPA 6020B	Lithium	0.00123J	mg/L	0.0300	03/13/25 14:45	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.5	mg/L	5.0	03/01/25 00:01	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.5	mg/L	5.0	03/01/25 00:01	
SM 2540C-2015	Total Dissolved Solids	60.0	mg/L	25.0	03/04/25 16:38	
EPA 300.0 Rev 2.1 1993	Chloride	6.4	mg/L	1.0	02/28/25 05:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/28/25 05:55	
EPA 300.0 Rev 2.1 1993	Sulfate	0.61J	mg/L	1.0	02/28/25 05:55	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/19/25 12:15	
EPA 6020B	Calcium	0.89J	mg/L	1.0	03/19/25 12:15	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	03/19/25 12:15	
EPA 6020B	Magnesium	0.96	mg/L	0.050	03/19/25 12:15	
EPA 6020B	Potassium	0.53	mg/L	0.50	03/19/25 12:15	
EPA 6020B	Sodium	8.9	mg/L	1.0	03/19/25 12:15	
92781909007	**YAT-YGWA-21I**					
EPA 6020B	Lithium	0.00670J	mg/L	0.0300	03/13/25 14:48	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	68.2	mg/L	5.0	03/01/25 00:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	68.2	mg/L	5.0	03/01/25 00:06	
SM 2540C-2015	Total Dissolved Solids	110	mg/L	25.0	03/04/25 16:38	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	02/28/25 06:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.088J	mg/L	0.10	02/28/25 06:10	
EPA 300.0 Rev 2.1 1993	Sulfate	3.3	mg/L	1.0	02/28/25 06:10	
EPA 6020B	Antimony	0.00054J	mg/L	0.0030	03/19/25 12:20	
EPA 6020B	Barium	0.0077	mg/L	0.0050	03/19/25 12:20	
EPA 6020B	Boron	0.0066J	mg/L	0.040	03/20/25 02:13	
EPA 6020B	Calcium	6.0	mg/L	1.0	03/19/25 12:20	
EPA 6020B	Cobalt	0.041	mg/L	0.0050	03/19/25 12:20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909007	**YAT-YGWA-21I**					
EPA 6020B	Magnesium	3.2	mg/L	0.050	03/19/25 12:20	
EPA 6020B	Potassium	3.0	mg/L	0.50	03/19/25 12:20	
EPA 6020B	Sodium	19.9	mg/L	1.0	03/19/25 12:20	
92781909008	**YAT-YGWA-4I**					
EPA 6020B	Lithium	0.0125J	mg/L	0.0300	03/13/25 14:51	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	48.3	mg/L	5.0	03/04/25 20:15	
SM 2320B-2011	Alkalinity, Total as CaCO3	48.3	mg/L	5.0	03/04/25 20:15	
SM 2540C-2015	Total Dissolved Solids	105	mg/L	25.0	03/04/25 16:38	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/28/25 06:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	02/28/25 06:54	
EPA 300.0 Rev 2.1 1993	Sulfate	7.4	mg/L	1.0	02/28/25 06:54	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/19/25 12:25	
EPA 6020B	Calcium	8.1	mg/L	1.0	03/19/25 12:25	
EPA 6020B	Magnesium	4.7	mg/L	0.050	03/19/25 12:25	
EPA 6020B	Potassium	3.6	mg/L	0.50	03/19/25 12:25	
EPA 6020B	Sodium	10.1	mg/L	1.0	03/19/25 12:25	
92781909009	**YAT-YGWA-5I**					
EPA 6020B	Lithium	0.00364J	mg/L	0.0300	03/13/25 14:54	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	25.4	mg/L	5.0	03/01/25 00:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	25.4	mg/L	5.0	03/01/25 00:13	
SM 2540C-2015	Total Dissolved Solids	83.0	mg/L	25.0	03/04/25 16:38	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/27/25 23:44	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	02/27/25 23:44	
EPA 6020B	Barium	0.020	mg/L	0.0050	03/19/25 12:41	
EPA 6020B	Calcium	2.8	mg/L	1.0	03/19/25 12:41	
EPA 6020B	Magnesium	2.7	mg/L	0.050	03/19/25 12:41	
EPA 6020B	Potassium	1.6	mg/L	0.50	03/19/25 12:41	
EPA 6020B	Sodium	11.0	mg/L	1.0	03/19/25 12:41	M1
92781909010	**YAT-YGWA-5D**					
EPA 6020B	Lithium	0.00582J	mg/L	0.0300	03/13/25 14:57	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	102	mg/L	5.0	03/01/25 00:18	
SM 2320B-2011	Alkalinity, Total as CaCO3	102	mg/L	5.0	03/01/25 00:18	
SM 2540C-2015	Total Dissolved Solids	146	mg/L	25.0	03/04/25 16:38	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	02/28/25 07:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	02/28/25 07:09	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	02/28/25 07:09	
EPA 6020B	Barium	0.0081	mg/L	0.0050	03/19/25 13:08	
EPA 6020B	Boron	0.0078J	mg/L	0.040	03/20/25 03:34	
EPA 6020B	Calcium	25.9	mg/L	1.0	03/19/25 13:08	
EPA 6020B	Magnesium	4.4	mg/L	0.050	03/19/25 13:08	
EPA 6020B	Potassium	3.6	mg/L	0.50	03/19/25 13:08	
EPA 6020B	Sodium	9.2	mg/L	1.0	03/19/25 13:08	
92781909011	**YAT-YGWA-20S**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	25.9	mg/L	5.0	03/01/25 00:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	25.9	mg/L	5.0	03/01/25 00:26	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909011	**YAT-YGWA-20S**					
SM 2540C-2015	Total Dissolved Solids	69.0	mg/L	25.0	03/04/25 16:39	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	02/28/25 07:24	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/19/25 13:13	
EPA 6020B	Calcium	2.6	mg/L	1.0	03/19/25 13:13	
EPA 6020B	Magnesium	0.60	mg/L	0.050	03/19/25 13:13	
EPA 6020B	Potassium	0.58	mg/L	0.50	03/19/25 13:13	
EPA 6020B	Sodium	9.4	mg/L	1.0	03/19/25 13:13	
92781909014	**YAT-YGWA-30I**					
EPA 6020B	Lithium	0.00127J	mg/L	0.0300	03/13/25 15:10	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.5	mg/L	5.0	03/01/25 00:39	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.5	mg/L	5.0	03/01/25 00:39	
SM 2540C-2015	Total Dissolved Solids	51.0	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	02/28/25 07:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	02/28/25 07:39	
EPA 300.0 Rev 2.1 1993	Sulfate	0.74J	mg/L	1.0	02/28/25 07:39	
EPA 6020B	Barium	0.0076	mg/L	0.0050	03/19/25 13:29	
EPA 6020B	Calcium	1.4	mg/L	1.0	03/19/25 13:29	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	03/19/25 13:29	
EPA 6020B	Magnesium	0.94	mg/L	0.050	03/19/25 13:29	
EPA 6020B	Potassium	0.71	mg/L	0.50	03/19/25 13:29	
EPA 6020B	Sodium	6.0	mg/L	1.0	03/19/25 13:29	
92781909015	**YAT-YGWA-14S**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.9	mg/L	5.0	03/01/25 00:44	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.9	mg/L	5.0	03/01/25 00:44	
SM 2540C-2015	Total Dissolved Solids	64.0	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	02/28/25 07:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	02/28/25 07:54	
EPA 300.0 Rev 2.1 1993	Sulfate	6.5	mg/L	1.0	02/28/25 07:54	
EPA 6020B	Barium	0.0084	mg/L	0.0050	03/19/25 13:44	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	03/19/25 13:44	
EPA 6020B	Boron	0.018J	mg/L	0.040	03/20/25 04:38	
EPA 6020B	Calcium	1.3	mg/L	1.0	03/19/25 13:44	
EPA 6020B	Magnesium	1.4	mg/L	0.050	03/19/25 13:44	
EPA 6020B	Potassium	0.76	mg/L	0.50	03/19/25 13:44	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	03/19/25 13:44	
EPA 6020B	Sodium	8.9	mg/L	1.0	03/19/25 13:44	
92781909016	**YAT-YGWA-2I**					
EPA 6020B	Lithium	0.00111J	mg/L	0.0300	03/13/25 15:34	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	99.8	mg/L	5.0	03/01/25 00:49	
SM 2320B-2011	Alkalinity, Total as CaCO3	99.8	mg/L	5.0	03/01/25 00:49	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	0.77J	mg/L	1.0	02/28/25 08:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/28/25 08:38	
EPA 300.0 Rev 2.1 1993	Sulfate	13.8	mg/L	1.0	02/28/25 08:38	
EPA 6020B	Barium	0.0037J	mg/L	0.0050	03/19/25 13:49	
EPA 6020B	Calcium	27.3	mg/L	1.0	03/19/25 13:49	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909016	**YAT-YGWA-2I**					
EPA 6020B	Magnesium	4.1	mg/L	0.050	03/19/25 13:49	
EPA 6020B	Molybdenum	0.0069J	mg/L	0.010	03/19/25 13:49	
EPA 6020B	Potassium	5.0	mg/L	0.50	03/19/25 13:49	
EPA 6020B	Sodium	8.9	mg/L	1.0	03/19/25 13:49	
92781909017	**YAT-YGWA-47**					
EPA 6020B	Lithium	0.00393J	mg/L	0.0300	03/13/25 15:38	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	37.8	mg/L	5.0	03/01/25 08:54	
SM 2320B-2011	Alkalinity, Total as CaCO3	37.8	mg/L	5.0	03/01/25 08:54	
SM 2540C-2015	Total Dissolved Solids	147	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	02/28/25 08:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	02/28/25 08:53	
EPA 300.0 Rev 2.1 1993	Sulfate	48.3	mg/L	1.0	02/28/25 08:53	
EPA 6020B	Barium	0.033	mg/L	0.0050	03/19/25 13:54	
EPA 6020B	Boron	0.014J	mg/L	0.040	03/20/25 04:56	
EPA 6020B	Calcium	9.9	mg/L	1.0	03/19/25 13:54	
EPA 6020B	Magnesium	11.0	mg/L	0.050	03/19/25 13:54	
EPA 6020B	Potassium	3.9	mg/L	0.50	03/19/25 13:54	
EPA 6020B	Sodium	11.7	mg/L	1.0	03/19/25 13:54	
92781909019	**YAT-YGWA-1I**					
EPA 6020B	Lithium	0.00270J	mg/L	0.0300	03/13/25 15:44	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.0	mg/L	5.0	03/01/25 09:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.0	mg/L	5.0	03/01/25 09:16	
SM 2540C-2015	Total Dissolved Solids	47.0	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/28/25 09:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	02/28/25 09:08	
EPA 300.0 Rev 2.1 1993	Sulfate	3.5	mg/L	1.0	02/28/25 09:08	
EPA 6020B	Barium	0.0083	mg/L	0.0050	03/19/25 14:05	
EPA 6020B	Calcium	1.8	mg/L	1.0	03/19/25 14:05	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	03/19/25 14:05	
EPA 6020B	Magnesium	1.4	mg/L	0.050	03/19/25 14:05	
EPA 6020B	Molybdenum	0.0032J	mg/L	0.010	03/19/25 14:05	
EPA 6020B	Potassium	2.0	mg/L	0.50	03/19/25 14:05	
EPA 6020B	Sodium	4.8	mg/L	1.0	03/19/25 14:05	
92781909020	**YAT-YGWA-1D**					
EPA 6020B	Lithium	0.00366J	mg/L	0.0300	03/13/25 15:47	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	65.2	mg/L	5.0	03/04/25 13:08	
SM 2320B-2011	Alkalinity, Total as CaCO3	65.2	mg/L	5.0	03/04/25 13:08	
SM 2540C-2015	Total Dissolved Solids	121	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	0.90J	mg/L	1.0	02/28/25 09:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/28/25 09:52	
EPA 300.0 Rev 2.1 1993	Sulfate	10.4	mg/L	1.0	02/28/25 09:52	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	03/19/25 14:10	
EPA 6020B	Barium	0.0071	mg/L	0.0050	03/19/25 14:10	
EPA 6020B	Calcium	16.4	mg/L	1.0	03/19/25 14:10	
EPA 6020B	Magnesium	1.9	mg/L	0.050	03/19/25 14:10	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	03/19/25 14:10	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909020	**YAT-YGWA-1D**					
EPA 6020B	Potassium	4.7	mg/L	0.50	03/19/25 14:10	
EPA 6020B	Sodium	11.8	mg/L	1.0	03/19/25 14:10	
92781909021	**YAT-YGWA-3I**					
EPA 6020B	Lithium	0.0168J	mg/L	0.0300	03/13/25 15:00	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	89.6	mg/L	5.0	03/04/25 13:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	89.6	mg/L	5.0	03/04/25 13:16	
SM 2540C-2015	Total Dissolved Solids	136	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	0.90J	mg/L	1.0	02/28/25 10:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/28/25 10:07	
EPA 300.0 Rev 2.1 1993	Sulfate	10.9	mg/L	1.0	02/28/25 10:07	
EPA 6020B	Barium	0.0036J	mg/L	0.0050	03/19/25 16:18	
EPA 6020B	Cadmium	0.00046J	mg/L	0.00050	03/19/25 16:18	
EPA 6020B	Calcium	21.2	mg/L	1.0	03/19/25 16:18	
EPA 6020B	Magnesium	5.3	mg/L	0.050	03/19/25 16:18	
EPA 6020B	Molybdenum	0.0086J	mg/L	0.010	03/19/25 16:18	
EPA 6020B	Potassium	5.0	mg/L	0.50	03/19/25 16:18	
EPA 6020B	Sodium	8.8	mg/L	1.0	03/19/25 16:18	
EPA 6020B	Thallium	0.00053J	mg/L	0.0010	03/19/25 16:18	
92781909022	**YAT-YGWA-3D**					
EPA 6020B	Lithium	0.0219J	mg/L	0.0300	03/13/25 15:13	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	103	mg/L	5.0	03/04/25 13:24	
SM 2320B-2011	Alkalinity, Total as CaCO3	103	mg/L	5.0	03/04/25 13:24	
SM 2540C-2015	Total Dissolved Solids	147	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	0.94J	mg/L	1.0	02/28/25 10:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.45	mg/L	0.10	02/28/25 10:22	
EPA 300.0 Rev 2.1 1993	Sulfate	6.7	mg/L	1.0	02/28/25 10:22	
EPA 6020B	Antimony	0.00072J	mg/L	0.0030	03/19/25 16:23	
EPA 6020B	Barium	0.0059	mg/L	0.0050	03/19/25 16:23	
EPA 6020B	Cadmium	0.00051	mg/L	0.00050	03/19/25 16:23	
EPA 6020B	Calcium	27.9	mg/L	1.0	03/19/25 16:23	
EPA 6020B	Magnesium	3.7	mg/L	0.050	03/19/25 16:23	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	03/19/25 16:23	
EPA 6020B	Potassium	3.6	mg/L	0.50	03/19/25 16:23	
EPA 6020B	Sodium	9.7	mg/L	1.0	03/19/25 16:23	
EPA 6020B	Thallium	0.00043J	mg/L	0.0010	03/19/25 16:23	
92781909024	**YAT-UGRD-FD-1**					
EPA 6020B	Lithium	0.00287J	mg/L	0.0300	03/13/25 15:20	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.2	mg/L	5.0	03/04/25 13:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.2	mg/L	5.0	03/04/25 13:36	
SM 2540C-2015	Total Dissolved Solids	51.0	mg/L	25.0	03/04/25 16:45	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/28/25 10:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	02/28/25 10:37	
EPA 300.0 Rev 2.1 1993	Sulfate	3.6	mg/L	1.0	02/28/25 10:37	
EPA 6020B	Barium	0.0080	mg/L	0.0050	03/19/25 16:34	
EPA 6020B	Calcium	1.7	mg/L	1.0	03/19/25 16:34	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	03/19/25 16:34	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909024	**YAT-UGRD-FD-1**					
EPA 6020B	Magnesium	1.4	mg/L	0.050	03/19/25 16:34	
EPA 6020B	Molybdenum	0.0032J	mg/L	0.010	03/19/25 16:34	
EPA 6020B	Potassium	2.0	mg/L	0.50	03/19/25 16:34	
EPA 6020B	Sodium	4.7	mg/L	1.0	03/19/25 16:34	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-17S **Lab ID: 92781909001** Collected: 02/25/25 13:05 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:05	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:36	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.3**	mg/L	5.0	5.0	1		02/28/25 23:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/28/25 23:32		
Alkalinity, Total as CaCO3	**14.3**	mg/L	5.0	5.0	1		02/28/25 23:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**93.0**	mg/L	25.0	25.0	1		03/03/25 23:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.4**	mg/L	1.0	0.60	1		02/28/25 04:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 04:11	16984-48-8	
Sulfate	**3.6**	mg/L	1.0	0.50	1		02/28/25 04:11	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 11:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:49	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 11:49	7440-41-7	
Boron	**0.0093J**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 01:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 11:49	7440-43-9	
Calcium	**3.0**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 11:49	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 11:49	7439-92-1	
Magnesium	**1.0**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 11:49	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 11:49	7439-98-7	
Potassium	**0.41J**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 11:49	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:49	7782-49-2	
Sodium	**15.0**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 11:49	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 11:49	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-18S **Lab ID: 92781909002** Collected: 02/25/25 10:12 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00129J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:18	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:42	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.3**	mg/L	5.0	5.0	1		02/28/25 23:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/28/25 23:37		
Alkalinity, Total as CaCO3	**9.3**	mg/L	5.0	5.0	1		02/28/25 23:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**69.0**	mg/L	25.0	25.0	1		03/03/25 23:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.5**	mg/L	1.0	0.60	1		02/28/25 04:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 04:26	16984-48-8	
Sulfate	**0.59J**	mg/L	1.0	0.50	1		02/28/25 04:26	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 11:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:54	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 11:54	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 01:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 11:54	7440-43-9	
Calcium	**0.88J**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 11:54	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 11:54	7439-92-1	
Magnesium	**0.94**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 11:54	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 11:54	7439-98-7	
Potassium	**0.52**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 11:54	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:54	7782-49-2	
Sodium	**8.8**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 11:54	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 11:54	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-18I **Lab ID: 92781909003** Collected: 02/25/25 12:10 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00373J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:21	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:44	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**35.3**	mg/L	5.0	5.0	1		02/28/25 23:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/28/25 23:42		
Alkalinity, Total as CaCO3	**35.3**	mg/L	5.0	5.0	1		02/28/25 23:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**110**	mg/L	25.0	25.0	1		03/03/25 23:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.0**	mg/L	1.0	0.60	1		02/28/25 04:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 04:41	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/28/25 04:41	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:00	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 01:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:00	7440-43-9	
Calcium	**5.3**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:00	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:00	7439-92-1	
Magnesium	**3.0**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:00	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:00	7439-98-7	
Potassium	**1.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:00	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:00	7782-49-2	
Sodium	**12.2**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:00	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:00	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-39 **Lab ID: 92781909004** Collected: 02/25/25 15:22 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00608J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:24	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:46	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**185**	mg/L	5.0	5.0	1		03/04/25 20:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 20:00		
Alkalinity, Total as CaCO3	**185**	mg/L	5.0	5.0	1		03/04/25 20:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**228**	mg/L	25.0	25.0	1		03/04/25 16:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		02/28/25 04:56	16887-00-6	
Fluoride	**0.078J**	mg/L	0.10	0.050	1		02/28/25 04:56	16984-48-8	
Sulfate	**6.5**	mg/L	1.0	0.50	1		02/28/25 04:56	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:05	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:05	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 01:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:05	7440-43-9	
Calcium	**17.3**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:05	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:05	7439-92-1	
Magnesium	**22.3**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:05	7439-95-4	
Molybdenum	**0.0056J**	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:05	7439-98-7	
Potassium	**6.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:05	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:05	7782-49-2	
Sodium	**25.2**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:05	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:05	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-40 **Lab ID: 92781909005** Collected: 02/25/25 14:21 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.000836J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:27	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	**0.00034**	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:48	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**22.5**	mg/L	5.0	5.0	1		02/28/25 23:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/28/25 23:47		
Alkalinity, Total as CaCO3	**22.5**	mg/L	5.0	5.0	1		02/28/25 23:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**86.0**	mg/L	25.0	25.0	1		03/04/25 16:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		02/28/25 05:10	16887-00-6	
Fluoride	**0.053J**	mg/L	0.10	0.050	1		02/28/25 05:10	16984-48-8	
Sulfate	**15.4**	mg/L	1.0	0.50	1		02/28/25 05:10	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:10	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:10	7440-39-3	
Beryllium	**0.00018J**	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:10	7440-41-7	
Boron	**0.061**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 01:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:10	7440-43-9	
Calcium	**4.8**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:10	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:10	7439-92-1	
Magnesium	**2.8**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:10	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:10	7439-98-7	
Potassium	**2.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:10	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:10	7782-49-2	
Sodium	**9.7**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:10	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:10	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-FD-2 **Lab ID: 92781909006** Collected: 02/25/25 00:00 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00123J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:45	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:50	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.5**	mg/L	5.0	5.0	1		03/01/25 00:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:01		
Alkalinity, Total as CaCO3	**9.5**	mg/L	5.0	5.0	1		03/01/25 00:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**60.0**	mg/L	25.0	25.0	1		03/04/25 16:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.4**	mg/L	1.0	0.60	1		02/28/25 05:55	16887-00-6	
Fluoride	**0.055J**	mg/L	0.10	0.050	1		02/28/25 05:55	16984-48-8	
Sulfate	**0.61J**	mg/L	1.0	0.50	1		02/28/25 05:55	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:15	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 02:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:15	7440-43-9	
Calcium	**0.89J**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:15	7440-70-2	
Chromium	**0.0013J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:15	7439-92-1	
Magnesium	**0.96**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:15	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:15	7439-98-7	
Potassium	**0.53**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:15	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:15	7782-49-2	
Sodium	**8.9**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:15	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:15	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-21I **Lab ID: 92781909007** Collected: 02/25/25 14:15 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00670J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:48	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:56	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**68.2**	mg/L	5.0	5.0	1		03/01/25 00:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:06		
Alkalinity, Total as CaCO3	**68.2**	mg/L	5.0	5.0	1		03/01/25 00:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**110**	mg/L	25.0	25.0	1		03/04/25 16:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.0**	mg/L	1.0	0.60	1		02/28/25 06:10	16887-00-6	
Fluoride	**0.088J**	mg/L	0.10	0.050	1		02/28/25 06:10	16984-48-8	
Sulfate	**3.3**	mg/L	1.0	0.50	1		02/28/25 06:10	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	**0.00054J**	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:20	7440-38-2	
Barium	**0.0077**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:20	7440-41-7	
Boron	**0.0066J**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 02:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:20	7440-43-9	
Calcium	**6.0**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:20	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:20	7440-47-3	
Cobalt	**0.041**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:20	7439-92-1	
Magnesium	**3.2**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:20	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:20	7439-98-7	
Potassium	**3.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:20	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:20	7782-49-2	
Sodium	**19.9**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:20	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:20	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-4I **Lab ID: 92781909008** Collected: 02/25/25 09:48 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0125J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:51	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:58	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**48.3**	mg/L	5.0	5.0	1		03/04/25 20:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 20:15		
Alkalinity, Total as CaCO3	**48.3**	mg/L	5.0	5.0	1		03/04/25 20:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**105**	mg/L	25.0	25.0	1		03/04/25 16:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		02/28/25 06:54	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		02/28/25 06:54	16984-48-8	
Sulfate	**7.4**	mg/L	1.0	0.50	1		02/28/25 06:54	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:25	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 02:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:25	7440-43-9	
Calcium	**8.1**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:25	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:25	7439-92-1	
Magnesium	**4.7**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:25	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:25	7439-98-7	
Potassium	**3.6**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:25	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:25	7782-49-2	
Sodium	**10.1**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:25	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:25	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-5I **Lab ID: 92781909009** Collected: 02/25/25 10:57 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00364J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:54	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:00	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**25.4**	mg/L	5.0	5.0	1		03/01/25 00:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:13		
Alkalinity, Total as CaCO3	**25.4**	mg/L	5.0	5.0	1		03/01/25 00:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**83.0**	mg/L	25.0	25.0	1		03/04/25 16:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		02/27/25 23:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/25 23:44	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.50	1		02/27/25 23:44	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:41	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 02:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:41	7440-43-9	
Calcium	**2.8**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:41	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:41	7439-92-1	
Magnesium	**2.7**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:41	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:41	7439-98-7	
Potassium	**1.6**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:41	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:41	7782-49-2	
Sodium	**11.0**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:41	7440-23-5	M1
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:41	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-5D **Lab ID: 92781909010** Collected: 02/25/25 11:56 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00582J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:57	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	5.0	5.0	1		03/01/25 00:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:18		
Alkalinity, Total as CaCO3	**102**	mg/L	5.0	5.0	1		03/01/25 00:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**146**	mg/L	25.0	25.0	1		03/04/25 16:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		02/28/25 07:09	16887-00-6	
Fluoride	**0.082J**	mg/L	0.10	0.050	1		02/28/25 07:09	16984-48-8	
Sulfate	**4.6**	mg/L	1.0	0.50	1		02/28/25 07:09	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:08	7440-38-2	
Barium	**0.0081**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:08	7440-41-7	
Boron	**0.0078J**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 03:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:08	7440-43-9	
Calcium	**25.9**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:08	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:08	7439-92-1	
Magnesium	**4.4**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:08	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:08	7439-98-7	
Potassium	**3.6**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:08	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:08	7782-49-2	
Sodium	**9.2**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:08	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:08	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-20S **Lab ID: 92781909011** Collected: 02/25/25 15:48 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:00	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**25.9**	mg/L	5.0	5.0	1		03/01/25 00:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:26		
Alkalinity, Total as CaCO3	**25.9**	mg/L	5.0	5.0	1		03/01/25 00:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**69.0**	mg/L	25.0	25.0	1		03/04/25 16:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.6**	mg/L	1.0	0.60	1		02/28/25 07:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 07:24	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/28/25 07:24	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:13	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:13	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 03:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:13	7440-43-9	
Calcium	**2.6**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:13	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:13	7439-92-1	
Magnesium	**0.60**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:13	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:13	7439-98-7	
Potassium	**0.58**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:13	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:13	7782-49-2	
Sodium	**9.4**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:13	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:13	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-EB-2 **Lab ID: 92781909012** Collected: 02/25/25 16:10 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:04	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:06	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:32		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/01/25 00:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/04/25 16:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/27/25 22:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/25 22:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/27/25 22:59	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:19	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:19	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 03:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:19	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:19	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:19	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:19	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:19	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:19	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:19	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:19	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:19	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-FB-2 **Lab ID: 92781909013** Collected: 02/25/25 12:06 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:07	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:08	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:35		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/01/25 00:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/27/25 23:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/25 23:14	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/27/25 23:14	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:24	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 04:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:24	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:24	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:24	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:24	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:24	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:24	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:24	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:24	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:24	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-30I **Lab ID: 92781909014** Collected: 02/25/25 14:55 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00127J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:10	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:10	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.5**	mg/L	5.0	5.0	1		03/01/25 00:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:39		
Alkalinity, Total as CaCO3	**15.5**	mg/L	5.0	5.0	1		03/01/25 00:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**51.0**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		02/28/25 07:39	16887-00-6	
Fluoride	**0.062J**	mg/L	0.10	0.050	1		02/28/25 07:39	16984-48-8	
Sulfate	**0.74J**	mg/L	1.0	0.50	1		02/28/25 07:39	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:29	7440-38-2	
Barium	**0.0076**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 04:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:29	7440-43-9	
Calcium	**1.4**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:29	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:29	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:29	7439-92-1	
Magnesium	**0.94**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:29	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:29	7439-98-7	
Potassium	**0.71**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:29	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:29	7782-49-2	
Sodium	**6.0**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:29	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:29	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-14S **Lab ID: 92781909015** Collected: 02/25/25 13:00 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:31	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:13	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.9**	mg/L	5.0	5.0	1		03/01/25 00:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:44		
Alkalinity, Total as CaCO3	**9.9**	mg/L	5.0	5.0	1		03/01/25 00:44		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**64.0**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.1**	mg/L	1.0	0.60	1		02/28/25 07:54	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		02/28/25 07:54	16984-48-8	
Sulfate	**6.5**	mg/L	1.0	0.50	1		02/28/25 07:54	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:44	7440-38-2	
Barium	**0.0084**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:44	7440-39-3	
Beryllium	**0.00020J**	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:44	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 04:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:44	7440-43-9	
Calcium	**1.3**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:44	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:44	7439-92-1	
Magnesium	**1.4**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:44	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:44	7439-98-7	
Potassium	**0.76**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:44	7440-09-7	
Selenium	**0.0014J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:44	7782-49-2	
Sodium	**8.9**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:44	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:44	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-2I **Lab ID: 92781909016** Collected: 02/25/25 11:25 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00111J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:34	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:15	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**99.8**	mg/L	5.0	5.0	1		03/01/25 00:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:49		
Alkalinity, Total as CaCO3	**99.8**	mg/L	5.0	5.0	1		03/01/25 00:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**156**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.77J**	mg/L	1.0	0.60	1		02/28/25 08:38	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/28/25 08:38	16984-48-8	
Sulfate	**13.8**	mg/L	1.0	0.50	1		02/28/25 08:38	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:49	7440-38-2	
Barium	**0.0037J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 04:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:49	7440-43-9	
Calcium	**27.3**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:49	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:49	7439-92-1	
Magnesium	**4.1**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:49	7439-95-4	
Molybdenum	**0.0069J**	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:49	7439-98-7	
Potassium	**5.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:49	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:49	7782-49-2	
Sodium	**8.9**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:49	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:49	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-47 **Lab ID: 92781909017** Collected: 02/25/25 16:55 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00393J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:38	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:21	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**37.8**	mg/L	5.0	5.0	1		03/01/25 08:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 08:54		
Alkalinity, Total as CaCO3	**37.8**	mg/L	5.0	5.0	1		03/01/25 08:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**147**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.0**	mg/L	1.0	0.60	1		02/28/25 08:53	16887-00-6	
Fluoride	**0.069J**	mg/L	0.10	0.050	1		02/28/25 08:53	16984-48-8	
Sulfate	**48.3**	mg/L	1.0	0.50	1		02/28/25 08:53	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:54	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:54	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 04:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:54	7440-43-9	
Calcium	**9.9**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:54	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:54	7439-92-1	
Magnesium	**11.0**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:54	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:54	7439-98-7	
Potassium	**3.9**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:54	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:54	7782-49-2	
Sodium	**11.7**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:54	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:54	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-FB-1 **Lab ID: 92781909018** Collected: 02/25/25 15:35 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:41	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:23	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 09:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 09:02		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/01/25 09:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/28/25 00:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 00:58	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/28/25 00:58	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 14:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:00	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 14:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 05:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 14:00	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 14:00	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 14:00	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 14:00	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 14:00	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 14:00	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:00	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 14:00	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 14:00	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-1I **Lab ID: 92781909019** Collected: 02/25/25 16:40 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00270J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:44	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:33	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.0**	mg/L	5.0	5.0	1		03/01/25 09:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 09:16		
Alkalinity, Total as CaCO3	**15.0**	mg/L	5.0	5.0	1		03/01/25 09:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**47.0**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/28/25 09:08	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		02/28/25 09:08	16984-48-8	
Sulfate	**3.5**	mg/L	1.0	0.50	1		02/28/25 09:08	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 14:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:05	7440-38-2	
Barium	**0.0083**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 14:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 05:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 14:05	7440-43-9	
Calcium	**1.8**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 14:05	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:05	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 14:05	7439-92-1	
Magnesium	**1.4**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 14:05	7439-95-4	
Molybdenum	**0.0032J**	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 14:05	7439-98-7	
Potassium	**2.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 14:05	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:05	7782-49-2	
Sodium	**4.8**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 14:05	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 14:05	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-1D **Lab ID: 92781909020** Collected: 02/25/25 14:25 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00366J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:47	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:39	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**65.2**	mg/L	5.0	5.0	1		03/04/25 13:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:08		
Alkalinity, Total as CaCO3	**65.2**	mg/L	5.0	5.0	1		03/04/25 13:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**121**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.90J**	mg/L	1.0	0.60	1		02/28/25 09:52	16887-00-6	
Fluoride	**0.094J**	mg/L	0.10	0.050	1		02/28/25 09:52	16984-48-8	
Sulfate	**10.4**	mg/L	1.0	0.50	1		02/28/25 09:52	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 14:10	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:10	7440-38-2	
Barium	**0.0071**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 14:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 05:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 14:10	7440-43-9	
Calcium	**16.4**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 14:10	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 14:10	7439-92-1	
Magnesium	**1.9**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 14:10	7439-95-4	
Molybdenum	**0.010**	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 14:10	7439-98-7	
Potassium	**4.7**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 14:10	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:10	7782-49-2	
Sodium	**11.8**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 14:10	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 14:10	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-3I **Lab ID: 92781909021** Collected: 02/25/25 12:10 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0168J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:00	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:41	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**89.6**	mg/L	5.0	5.0	1		03/04/25 13:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:16		
Alkalinity, Total as CaCO3	**89.6**	mg/L	5.0	5.0	1		03/04/25 13:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**136**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.90J**	mg/L	1.0	0.60	1		02/28/25 10:07	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		02/28/25 10:07	16984-48-8	
Sulfate	**10.9**	mg/L	1.0	0.50	1		02/28/25 10:07	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 08:40	03/19/25 16:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:18	7440-38-2	
Barium	**0.0036J**	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 08:40	03/19/25 16:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 08:40	03/20/25 09:01	7440-42-8	
Cadmium	**0.00046J**	mg/L	0.00050	0.00012	1	03/17/25 08:40	03/19/25 16:18	7440-43-9	
Calcium	**21.2**	mg/L	1.0	0.10	1	03/17/25 08:40	03/19/25 16:18	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 08:40	03/19/25 16:18	7439-92-1	
Magnesium	**5.3**	mg/L	0.050	0.010	1	03/17/25 08:40	03/19/25 16:18	7439-95-4	
Molybdenum	**0.0086J**	mg/L	0.010	0.0025	1	03/17/25 08:40	03/19/25 16:18	7439-98-7	
Potassium	**5.0**	mg/L	0.50	0.10	1	03/17/25 08:40	03/19/25 16:18	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:18	7782-49-2	
Sodium	**8.8**	mg/L	1.0	0.15	1	03/17/25 08:40	03/19/25 16:18	7440-23-5	
Thallium	**0.00053J**	mg/L	0.0010	0.00015	1	03/17/25 08:40	03/19/25 16:18	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-3D **Lab ID: 92781909022** Collected: 02/25/25 10:30 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0219J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:13	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:43	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	5.0	5.0	1		03/04/25 13:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:24		
Alkalinity, Total as CaCO3	**103**	mg/L	5.0	5.0	1		03/04/25 13:24		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**147**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.94J**	mg/L	1.0	0.60	1		02/28/25 10:22	16887-00-6	
Fluoride	**0.45**	mg/L	0.10	0.050	1		02/28/25 10:22	16984-48-8	
Sulfate	**6.7**	mg/L	1.0	0.50	1		02/28/25 10:22	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	**0.00072J**	mg/L	0.0030	0.00050	1	03/17/25 08:40	03/19/25 16:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:23	7440-38-2	
Barium	**0.0059**	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 08:40	03/19/25 16:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 08:40	03/20/25 09:10	7440-42-8	
Cadmium	**0.00051**	mg/L	0.00050	0.00012	1	03/17/25 08:40	03/19/25 16:23	7440-43-9	
Calcium	**27.9**	mg/L	1.0	0.10	1	03/17/25 08:40	03/19/25 16:23	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 08:40	03/19/25 16:23	7439-92-1	
Magnesium	**3.7**	mg/L	0.050	0.010	1	03/17/25 08:40	03/19/25 16:23	7439-95-4	
Molybdenum	**0.017**	mg/L	0.010	0.0025	1	03/17/25 08:40	03/19/25 16:23	7439-98-7	
Potassium	**3.6**	mg/L	0.50	0.10	1	03/17/25 08:40	03/19/25 16:23	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:23	7782-49-2	
Sodium	**9.7**	mg/L	1.0	0.15	1	03/17/25 08:40	03/19/25 16:23	7440-23-5	
Thallium	**0.00043J**	mg/L	0.0010	0.00015	1	03/17/25 08:40	03/19/25 16:23	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-EB-1 **Lab ID: 92781909023** Collected: 02/25/25 17:30 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:17	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:46	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:32		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/04/25 13:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/04/25 16:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/27/25 23:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/25 23:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/27/25 23:59	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 08:40	03/19/25 16:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:29	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 08:40	03/19/25 16:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 08:40	03/20/25 09:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 08:40	03/19/25 16:29	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/17/25 08:40	03/19/25 16:29	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 08:40	03/19/25 16:29	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/17/25 08:40	03/19/25 16:29	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 08:40	03/19/25 16:29	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/17/25 08:40	03/19/25 16:29	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:29	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/17/25 08:40	03/19/25 16:29	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 08:40	03/19/25 16:29	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-FD-1 **Lab ID: 92781909024** Collected: 02/25/25 00:00 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00287J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:20	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:48	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.2**	mg/L	5.0	5.0	1		03/04/25 13:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:36		
Alkalinity, Total as CaCO3	**15.2**	mg/L	5.0	5.0	1		03/04/25 13:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**51.0**	mg/L	25.0	25.0	1		03/04/25 16:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/28/25 10:37	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		02/28/25 10:37	16984-48-8	
Sulfate	**3.6**	mg/L	1.0	0.50	1		02/28/25 10:37	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 08:40	03/19/25 16:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:34	7440-38-2	
Barium	**0.0080**	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 08:40	03/19/25 16:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 08:40	03/20/25 09:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 08:40	03/19/25 16:34	7440-43-9	
Calcium	**1.7**	mg/L	1.0	0.10	1	03/17/25 08:40	03/19/25 16:34	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:34	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 08:40	03/19/25 16:34	7439-92-1	
Magnesium	**1.4**	mg/L	0.050	0.010	1	03/17/25 08:40	03/19/25 16:34	7439-95-4	
Molybdenum	**0.0032J**	mg/L	0.010	0.0025	1	03/17/25 08:40	03/19/25 16:34	7439-98-7	
Potassium	**2.0**	mg/L	0.50	0.10	1	03/17/25 08:40	03/19/25 16:34	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:34	7782-49-2	
Sodium	**4.7**	mg/L	1.0	0.15	1	03/17/25 08:40	03/19/25 16:34	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 08:40	03/19/25 16:34	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 2467968
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020

METHOD BLANK: R4186055-1 Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/13/25 13:59	

LABORATORY CONTROL SAMPLE: R4186055-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0477	95.4	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4186055-4 R4186055-5

Parameter	Units	92781909001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	ND	0.0500	0.0500	0.0494	0.0488	98.8	97.7	75.0-125	1.17	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 2467969
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92781909021, 92781909022, 92781909023, 92781909024

METHOD BLANK: R4186118-1 Matrix: Water
Associated Lab Samples: 92781909021, 92781909022, 92781909023, 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/13/25 14:53	

LABORATORY CONTROL SAMPLE: R4186118-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0462	92.4	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4186118-4 R4186118-5

Parameter	Units	92781909021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.0168	0.0500	0.0500	0.0639	0.0640	94.3	94.4	75.0-125	0.089	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919335
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018

METHOD BLANK: 4724425 Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	03/02/25 14:31	

LABORATORY CONTROL SAMPLE: 4724426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4724427 4724428

Parameter	Units	92781909001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	96	99	75-125	3	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919385
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909019, 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

METHOD BLANK: 4724796 Matrix: Water
Associated Lab Samples: 92781909019, 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	03/02/25 15:54	

LABORATORY CONTROL SAMPLE: 4724797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4724798 4724799

Parameter	Units	92781909019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	99	100	75-125	0	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919354
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909005, 92781909006, 92781909007, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019

METHOD BLANK: 4724529 Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909005, 92781909006, 92781909007, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/28/25 23:02	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/28/25 23:02	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/28/25 23:02	

LABORATORY CONTROL SAMPLE: 4724530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

LABORATORY CONTROL SAMPLE: 4724531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4724532 4724533

Parameter	Units	92781909018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	51.2	49.5	102	98	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4724534 4724535

Parameter	Units	92781909019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	15.0	50	50	65.2	63.3	100	97	80-120	3	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919795 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

METHOD BLANK: 4726469 Matrix: Water
Associated Lab Samples: 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/04/25 12:51	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 12:51	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 12:51	

LABORATORY CONTROL SAMPLE: 4726470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4726471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4726472 4726473

Parameter	Units	92781183001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	42900	50	50	43300	43200	842	500	80-120	0	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4726474 4726475

Parameter	Units	92781183004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	33200	50	50	35600	34600	4920	2830	80-120	3	25	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919960
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909004, 92781909008

METHOD BLANK: 4727357 Matrix: Water
Associated Lab Samples: 92781909004, 92781909008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/04/25 18:33	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 18:33	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 18:33	

LABORATORY CONTROL SAMPLE: 4727358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 4727359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4727360 4727361

Parameter	Units	92781710009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	60.0	50	50	109	109	98	99	80-120	0	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919504
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909001, 92781909002, 92781909003

METHOD BLANK: 4725257 Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/03/25 23:04	

LABORATORY CONTROL SAMPLE: 4725258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	246	98	90-110	

SAMPLE DUPLICATE: 4726141

Parameter	Units	92781615001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	207	203	2	25	

SAMPLE DUPLICATE: 4726142

Parameter	Units	92781642007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	53.0	67.0	23	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919709
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020, 92781909021, 92781909022, 92781909023

METHOD BLANK: 4726149 Matrix: Water
Associated Lab Samples: 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020, 92781909021, 92781909022, 92781909023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/04/25 16:37	

LABORATORY CONTROL SAMPLE: 4726150

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	101	90-110	

SAMPLE DUPLICATE: 4726151

Parameter	Units	92781909004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	228	229	0	25	

SAMPLE DUPLICATE: 4726152

Parameter	Units	92781909014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	51.0	51.0	0	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919710
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909024

METHOD BLANK: 4726153 Matrix: Water
Associated Lab Samples: 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/04/25 16:45	

LABORATORY CONTROL SAMPLE: 4726154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4726155

Parameter	Units	92781909024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	51.0	52.0	2	25	

SAMPLE DUPLICATE: 4726156

Parameter	Units	92782188021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	219	213	3	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919134
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014

METHOD BLANK: 4723553 Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/27/25 21:58	
Fluoride	mg/L	ND	0.10	0.050	02/27/25 21:58	
Sulfate	mg/L	ND	1.0	0.50	02/27/25 21:58	

LABORATORY CONTROL SAMPLE: 4723554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723555 4723556

Parameter	Units	92782109003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.7	50	50	58.6	56.7	106	102	90-110	3	10	
Fluoride	mg/L	0.22	2.5	2.5	2.9	2.8	108	104	90-110	3	10	
Sulfate	mg/L	12.8	50	50	66.8	64.9	108	104	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723557 4723558

Parameter	Units	92781909005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5	50	50	57.1	57.8	105	107	90-110	1	10	
Fluoride	mg/L	0.053J	2.5	2.5	2.7	2.7	105	107	90-110	2	10	
Sulfate	mg/L	15.4	50	50	69.0	69.7	107	109	90-110	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919137
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

METHOD BLANK: 4723565 Matrix: Water
Associated Lab Samples: 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/27/25 22:28	
Fluoride	mg/L	ND	0.10	0.050	02/27/25 22:28	
Sulfate	mg/L	ND	1.0	0.50	02/27/25 22:28	

LABORATORY CONTROL SAMPLE: 4723566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723567 4723568

Parameter	Units	92781909015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	54.6	58.4	101	108	90-110	7	10	
Fluoride	mg/L	0.052J	2.5	2.5	2.6	2.6	102	102	90-110	0	10	
Sulfate	mg/L	6.5	50	50	57.9	61.7	103	110	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723569 4723570

Parameter	Units	92781915001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	48.3	53.1	97	106	90-110	10	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.6	96	106	90-110	10	10	
Sulfate	mg/L	ND	50	50	48.5	53.4	97	107	90-110	10	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 921177
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020

METHOD BLANK: 4733450
Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/19/25 11:24	
Arsenic	mg/L	ND	0.0050	0.0012	03/19/25 11:24	
Barium	mg/L	ND	0.0050	0.0012	03/19/25 11:24	
Beryllium	mg/L	ND	0.00050	0.00015	03/19/25 11:24	
Boron	mg/L	ND	0.040	0.0062	03/20/25 01:00	
Cadmium	mg/L	ND	0.00050	0.00012	03/19/25 11:24	
Calcium	mg/L	ND	1.0	0.10	03/19/25 11:24	
Chromium	mg/L	ND	0.0050	0.0012	03/19/25 11:24	
Cobalt	mg/L	ND	0.0050	0.0012	03/19/25 11:24	
Lead	mg/L	ND	0.0010	0.00025	03/19/25 11:24	
Magnesium	mg/L	ND	0.050	0.010	03/19/25 11:24	
Molybdenum	mg/L	ND	0.010	0.0025	03/19/25 11:24	
Potassium	mg/L	ND	0.50	0.10	03/19/25 11:24	
Selenium	mg/L	ND	0.0050	0.0012	03/19/25 11:24	
Sodium	mg/L	ND	1.0	0.15	03/19/25 11:24	
Thallium	mg/L	ND	0.0010	0.00015	03/19/25 11:24	

LABORATORY CONTROL SAMPLE: 4733451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.092	92	80-120	
Boron	mg/L	0.1	0.10	100	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Calcium	mg/L	1	1.0	103	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Sodium	mg/L	1	1.1	109	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

LABORATORY CONTROL SAMPLE: 4733451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4733452 4733453

Parameter	Units	92781909009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20	
Barium	mg/L	0.020	0.1	0.1	0.11	0.11	95	93	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20	
Boron	mg/L	ND	0.1	0.1	0.11	0.11	107	107	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20	
Calcium	mg/L	2.8	1	1	3.7	3.6	87	82	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Magnesium	mg/L	2.7	1	1	3.7	3.6	97	88	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.093	0.091	93	91	75-125	2	20	
Potassium	mg/L	1.6	1	1	2.5	2.5	92	91	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Sodium	mg/L	11.0	1	1	11.8	11.6	89	64	75-125	2	20	M1
Thallium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 922429
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92781909021, 92781909022, 92781909023, 92781909024

METHOD BLANK: 4739876 Matrix: Water
Associated Lab Samples: 92781909021, 92781909022, 92781909023, 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/19/25 14:15	
Arsenic	mg/L	ND	0.0050	0.0012	03/19/25 14:15	
Barium	mg/L	ND	0.0050	0.0012	03/19/25 14:15	
Beryllium	mg/L	ND	0.00050	0.00015	03/19/25 14:15	
Boron	mg/L	ND	0.040	0.0062	03/20/25 05:32	
Cadmium	mg/L	ND	0.00050	0.00012	03/19/25 14:15	
Calcium	mg/L	ND	1.0	0.10	03/19/25 14:15	
Chromium	mg/L	ND	0.0050	0.0012	03/19/25 14:15	
Cobalt	mg/L	ND	0.0050	0.0012	03/19/25 14:15	
Lead	mg/L	ND	0.0010	0.00025	03/19/25 14:15	
Magnesium	mg/L	ND	0.050	0.010	03/19/25 14:15	
Molybdenum	mg/L	ND	0.010	0.0025	03/19/25 14:15	
Potassium	mg/L	ND	0.50	0.10	03/19/25 14:15	
Selenium	mg/L	ND	0.0050	0.0012	03/19/25 14:15	
Sodium	mg/L	ND	1.0	0.15	03/19/25 14:15	
Thallium	mg/L	ND	0.0010	0.00015	03/19/25 14:15	

LABORATORY CONTROL SAMPLE: 4739877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.096	96	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	0.1	0.098	98	80-120	
Cadmium	mg/L	0.1	0.094	94	80-120	
Calcium	mg/L	1	1.0J	100	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Magnesium	mg/L	1	0.99	99	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Sodium	mg/L	1	1.0	103	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4739878 4739879

Parameter	Units	92781127002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Barium	mg/L	0.036	0.1	0.1	0.13	0.13	96	95	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Boron	mg/L	0.019J	0.1	0.1	0.12	0.12	101	104	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20	
Calcium	mg/L	51.1	1	1	50.7	51.5	-46	35	75-125	2	20	M1
Chromium	mg/L	ND	0.1	0.1	0.095	0.096	95	95	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.096	95	95	75-125	1	20	
Magnesium	mg/L	26.3	1	1	27.0	27.3	71	102	75-125	1	20	M1
Molybdenum	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Potassium	mg/L	1.4	1	1	2.5	2.4	103	99	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.095	94	94	75-125	0	20	
Sodium	mg/L	1.8	1	1	2.7	2.7	89	93	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781909001	**YAT-YGWA-17S**	3015	2467968	EPA 6020B	2467968
92781909002	**YAT-YGWA-18S**	3015	2467968	EPA 6020B	2467968
92781909003	**YAT-YGWA-18I**	3015	2467968	EPA 6020B	2467968
92781909004	**YAT-YGWA-39**	3015	2467968	EPA 6020B	2467968
92781909005	**YAT-YGWA-40**	3015	2467968	EPA 6020B	2467968
92781909006	**YAT-UGRD-FD-2**	3015	2467968	EPA 6020B	2467968
92781909007	**YAT-YGWA-21I**	3015	2467968	EPA 6020B	2467968
92781909008	**YAT-YGWA-4I**	3015	2467968	EPA 6020B	2467968
92781909009	**YAT-YGWA-5I**	3015	2467968	EPA 6020B	2467968
92781909010	**YAT-YGWA-5D**	3015	2467968	EPA 6020B	2467968
92781909011	**YAT-YGWA-20S**	3015	2467968	EPA 6020B	2467968
92781909012	**YAT-UGRD-EB-2**	3015	2467968	EPA 6020B	2467968
92781909013	**YAT-UGRD-FB-2**	3015	2467968	EPA 6020B	2467968
92781909014	**YAT-YGWA-30I**	3015	2467968	EPA 6020B	2467968
92781909015	**YAT-YGWA-14S**	3015	2467968	EPA 6020B	2467968
92781909016	**YAT-YGWA-2I**	3015	2467968	EPA 6020B	2467968
92781909017	**YAT-YGWA-47**	3015	2467968	EPA 6020B	2467968
92781909018	**YAT-UGRD-FB-1**	3015	2467968	EPA 6020B	2467968
92781909019	**YAT-YGWA-1I**	3015	2467968	EPA 6020B	2467968
92781909020	**YAT-YGWA-1D**	3015	2467968	EPA 6020B	2467968
92781909021	**YAT-YGWA-3I**	3015	2467969	EPA 6020B	2467969
92781909022	**YAT-YGWA-3D**	3015	2467969	EPA 6020B	2467969
92781909023	**YAT-UGRD-EB-1**	3015	2467969	EPA 6020B	2467969
92781909024	**YAT-UGRD-FD-1**	3015	2467969	EPA 6020B	2467969
92781909001	**YAT-YGWA-17S**	EPA 7470A	919335	EPA 7470A	919420
92781909002	**YAT-YGWA-18S**	EPA 7470A	919335	EPA 7470A	919420
92781909003	**YAT-YGWA-18I**	EPA 7470A	919335	EPA 7470A	919420
92781909004	**YAT-YGWA-39**	EPA 7470A	919335	EPA 7470A	919420
92781909005	**YAT-YGWA-40**	EPA 7470A	919335	EPA 7470A	919420
92781909006	**YAT-UGRD-FD-2**	EPA 7470A	919335	EPA 7470A	919420
92781909007	**YAT-YGWA-21I**	EPA 7470A	919335	EPA 7470A	919420
92781909008	**YAT-YGWA-4I**	EPA 7470A	919335	EPA 7470A	919420
92781909009	**YAT-YGWA-5I**	EPA 7470A	919335	EPA 7470A	919420
92781909010	**YAT-YGWA-5D**	EPA 7470A	919335	EPA 7470A	919420
92781909011	**YAT-YGWA-20S**	EPA 7470A	919335	EPA 7470A	919420
92781909012	**YAT-UGRD-EB-2**	EPA 7470A	919335	EPA 7470A	919420
92781909013	**YAT-UGRD-FB-2**	EPA 7470A	919335	EPA 7470A	919420
92781909014	**YAT-YGWA-30I**	EPA 7470A	919335	EPA 7470A	919420
92781909015	**YAT-YGWA-14S**	EPA 7470A	919335	EPA 7470A	919420
92781909016	**YAT-YGWA-2I**	EPA 7470A	919335	EPA 7470A	919420
92781909017	**YAT-YGWA-47**	EPA 7470A	919335	EPA 7470A	919420
92781909018	**YAT-UGRD-FB-1**	EPA 7470A	919335	EPA 7470A	919420
92781909019	**YAT-YGWA-1I**	EPA 7470A	919385	EPA 7470A	919421
92781909020	**YAT-YGWA-1D**	EPA 7470A	919385	EPA 7470A	919421
92781909021	**YAT-YGWA-3I**	EPA 7470A	919385	EPA 7470A	919421
92781909022	**YAT-YGWA-3D**	EPA 7470A	919385	EPA 7470A	919421
92781909023	**YAT-UGRD-EB-1**	EPA 7470A	919385	EPA 7470A	919421

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781909024	**YAT-UGRD-FD-1**	EPA 7470A	919385	EPA 7470A	919421
92781909001	**YAT-YGWA-17S**	SM 2320B-2011	919354		
92781909002	**YAT-YGWA-18S**	SM 2320B-2011	919354		
92781909003	**YAT-YGWA-18I**	SM 2320B-2011	919354		
92781909004	**YAT-YGWA-39**	SM 2320B-2011	919960		
92781909005	**YAT-YGWA-40**	SM 2320B-2011	919354		
92781909006	**YAT-UGRD-FD-2**	SM 2320B-2011	919354		
92781909007	**YAT-YGWA-21I**	SM 2320B-2011	919354		
92781909008	**YAT-YGWA-4I**	SM 2320B-2011	919960		
92781909009	**YAT-YGWA-5I**	SM 2320B-2011	919354		
92781909010	**YAT-YGWA-5D**	SM 2320B-2011	919354		
92781909011	**YAT-YGWA-20S**	SM 2320B-2011	919354		
92781909012	**YAT-UGRD-EB-2**	SM 2320B-2011	919354		
92781909013	**YAT-UGRD-FB-2**	SM 2320B-2011	919354		
92781909014	**YAT-YGWA-30I**	SM 2320B-2011	919354		
92781909015	**YAT-YGWA-14S**	SM 2320B-2011	919354		
92781909016	**YAT-YGWA-2I**	SM 2320B-2011	919354		
92781909017	**YAT-YGWA-47**	SM 2320B-2011	919354		
92781909018	**YAT-UGRD-FB-1**	SM 2320B-2011	919354		
92781909019	**YAT-YGWA-1I**	SM 2320B-2011	919354		
92781909020	**YAT-YGWA-1D**	SM 2320B-2011	919795		
92781909021	**YAT-YGWA-3I**	SM 2320B-2011	919795		
92781909022	**YAT-YGWA-3D**	SM 2320B-2011	919795		
92781909023	**YAT-UGRD-EB-1**	SM 2320B-2011	919795		
92781909024	**YAT-UGRD-FD-1**	SM 2320B-2011	919795		
92781909001	**YAT-YGWA-17S**	SM 2540C-2015	919504		
92781909002	**YAT-YGWA-18S**	SM 2540C-2015	919504		
92781909003	**YAT-YGWA-18I**	SM 2540C-2015	919504		
92781909004	**YAT-YGWA-39**	SM 2540C-2015	919709		
92781909005	**YAT-YGWA-40**	SM 2540C-2015	919709		
92781909006	**YAT-UGRD-FD-2**	SM 2540C-2015	919709		
92781909007	**YAT-YGWA-21I**	SM 2540C-2015	919709		
92781909008	**YAT-YGWA-4I**	SM 2540C-2015	919709		
92781909009	**YAT-YGWA-5I**	SM 2540C-2015	919709		
92781909010	**YAT-YGWA-5D**	SM 2540C-2015	919709		
92781909011	**YAT-YGWA-20S**	SM 2540C-2015	919709		
92781909012	**YAT-UGRD-EB-2**	SM 2540C-2015	919709		
92781909013	**YAT-UGRD-FB-2**	SM 2540C-2015	919709		
92781909014	**YAT-YGWA-30I**	SM 2540C-2015	919709		
92781909015	**YAT-YGWA-14S**	SM 2540C-2015	919709		
92781909016	**YAT-YGWA-2I**	SM 2540C-2015	919709		
92781909017	**YAT-YGWA-47**	SM 2540C-2015	919709		
92781909018	**YAT-UGRD-FB-1**	SM 2540C-2015	919709		
92781909019	**YAT-YGWA-1I**	SM 2540C-2015	919709		
92781909020	**YAT-YGWA-1D**	SM 2540C-2015	919709		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781909021	**YAT-YGWA-3I**	SM 2540C-2015	919709		
92781909022	**YAT-YGWA-3D**	SM 2540C-2015	919709		
92781909023	**YAT-UGRD-EB-1**	SM 2540C-2015	919709		
92781909024	**YAT-UGRD-FD-1**	SM 2540C-2015	919710		
92781909001	**YAT-YGWA-17S**	EPA 300.0 Rev 2.1 1993	919134		
92781909002	**YAT-YGWA-18S**	EPA 300.0 Rev 2.1 1993	919134		
92781909003	**YAT-YGWA-18I**	EPA 300.0 Rev 2.1 1993	919134		
92781909004	**YAT-YGWA-39**	EPA 300.0 Rev 2.1 1993	919134		
92781909005	**YAT-YGWA-40**	EPA 300.0 Rev 2.1 1993	919134		
92781909006	**YAT-UGRD-FD-2**	EPA 300.0 Rev 2.1 1993	919134		
92781909007	**YAT-YGWA-21I**	EPA 300.0 Rev 2.1 1993	919134		
92781909008	**YAT-YGWA-4I**	EPA 300.0 Rev 2.1 1993	919134		
92781909009	**YAT-YGWA-5I**	EPA 300.0 Rev 2.1 1993	919134		
92781909010	**YAT-YGWA-5D**	EPA 300.0 Rev 2.1 1993	919134		
92781909011	**YAT-YGWA-20S**	EPA 300.0 Rev 2.1 1993	919134		
92781909012	**YAT-UGRD-EB-2**	EPA 300.0 Rev 2.1 1993	919134		
92781909013	**YAT-UGRD-FB-2**	EPA 300.0 Rev 2.1 1993	919134		
92781909014	**YAT-YGWA-30I**	EPA 300.0 Rev 2.1 1993	919134		
92781909015	**YAT-YGWA-14S**	EPA 300.0 Rev 2.1 1993	919137		
92781909016	**YAT-YGWA-2I**	EPA 300.0 Rev 2.1 1993	919137		
92781909017	**YAT-YGWA-47**	EPA 300.0 Rev 2.1 1993	919137		
92781909018	**YAT-UGRD-FB-1**	EPA 300.0 Rev 2.1 1993	919137		
92781909019	**YAT-YGWA-1I**	EPA 300.0 Rev 2.1 1993	919137		
92781909020	**YAT-YGWA-1D**	EPA 300.0 Rev 2.1 1993	919137		
92781909021	**YAT-YGWA-3I**	EPA 300.0 Rev 2.1 1993	919137		
92781909022	**YAT-YGWA-3D**	EPA 300.0 Rev 2.1 1993	919137		
92781909023	**YAT-UGRD-EB-1**	EPA 300.0 Rev 2.1 1993	919137		
92781909024	**YAT-UGRD-FD-1**	EPA 300.0 Rev 2.1 1993	919137		
92781909001	**YAT-YGWA-17S**	EPA 3005A	921177	EPA 6020B	923563
92781909002	**YAT-YGWA-18S**	EPA 3005A	921177	EPA 6020B	923563
92781909003	**YAT-YGWA-18I**	EPA 3005A	921177	EPA 6020B	923563
92781909004	**YAT-YGWA-39**	EPA 3005A	921177	EPA 6020B	923563
92781909005	**YAT-YGWA-40**	EPA 3005A	921177	EPA 6020B	923563
92781909006	**YAT-UGRD-FD-2**	EPA 3005A	921177	EPA 6020B	923563
92781909007	**YAT-YGWA-21I**	EPA 3005A	921177	EPA 6020B	923563
92781909008	**YAT-YGWA-4I**	EPA 3005A	921177	EPA 6020B	923563
92781909009	**YAT-YGWA-5I**	EPA 3005A	921177	EPA 6020B	923563
92781909010	**YAT-YGWA-5D**	EPA 3005A	921177	EPA 6020B	923563
92781909011	**YAT-YGWA-20S**	EPA 3005A	921177	EPA 6020B	923563
92781909012	**YAT-UGRD-EB-2**	EPA 3005A	921177	EPA 6020B	923563
92781909013	**YAT-UGRD-FB-2**	EPA 3005A	921177	EPA 6020B	923563
92781909014	**YAT-YGWA-30I**	EPA 3005A	921177	EPA 6020B	923563
92781909015	**YAT-YGWA-14S**	EPA 3005A	921177	EPA 6020B	923563
92781909016	**YAT-YGWA-2I**	EPA 3005A	921177	EPA 6020B	923563
92781909017	**YAT-YGWA-47**	EPA 3005A	921177	EPA 6020B	923563
92781909018	**YAT-UGRD-FB-1**	EPA 3005A	921177	EPA 6020B	923563
92781909019	**YAT-YGWA-1I**	EPA 3005A	921177	EPA 6020B	923563

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781909020	**YAT-YGWA-1D**	EPA 3005A	921177	EPA 6020B	923563
92781909021	**YAT-YGWA-3I**	EPA 3005A	922429	EPA 6020B	923562
92781909022	**YAT-YGWA-3D**	EPA 3005A	922429	EPA 6020B	923562
92781909023	**YAT-UGRD-EB-1**	EPA 3005A	922429	EPA 6020B	923562
92781909024	**YAT-UGRD-FD-1**	EPA 3005A	922429	EPA 6020B	923562

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92781909

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/29/25

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 1.2

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92781909

PM: BV Due Date: 03/12/25

CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

ItemII	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC					BP/N																							
1		2	1		2	2																						
2		2	1		2	2																						
3		2	1		2	2																						
4		2	1		2	2																						
5		2	1		2	2																						
6		2	1		2	2																						
7		2	1		2	2																						
8		2	1		2	2																						
9		2	1		2	2																						
10		2	1		2	2																						
11		2	1		2	2																						
12		2	1		2	2																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO#: 92781909

PM: BV Due Date: 03/12/25
CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		2																							
2		2	1		2		2																							
3		2	1		2		2																							
4		2	1		2		2																							
5		2	1		2		2																							
6		2	1		2		2																							
7		2	1		2		2																							
8		2	1		2		2																							
9		2	1		2		2																							
10		2	1		2		2																							
11		2	1		2		2																							
12		2	1		2		2																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92781909

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G	2/25/25	1305	—	—		7		X	X	X	X	X	See Remarks DU1	
YAT-YGWA-18S	WG	G	2/25/25	1012	—	—		7		X	X	X	X	X	See Remarks DU2	
YAT-YGWA-18I	WG	G	2/25/25	1210	—	—		7		X	X	X	X	X	See Remarks DU3	
YAT-YGWA-20S	WG	G						7		X	X	X	X	X	See Remarks	
															See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	Trey Singleton / ARCADIS	2/26/25 0830
Trey Singleton / ARCADIS	2/26/25 1143	Logan Williams / Pace	2/26/25 1143
Logan Williams / Pace	2/26/25 1355	Charles Hanks	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 10

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORC-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G	2/25/25	1522	—			7		X	X	X	X	X	See Remarks 004	
YAT-YGWA-40	WG	G	2/25/25	1421	—			7		X	X	X	X	X	See Remarks 005	
YAT-YGWA-1I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	[illegible] / ARCADIS	2/26/25 0830
[illegible] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[illegible]	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Page: 2 of 10

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singletori
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G	2/25/25	—				7		X	X	X	X	X	See Remarks UUU

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware/Arcadis	2/26/25 0830	ARCADIS	2/26/25 0830
ARCADIS	2/26/25 1143	Pace	2/26/25 1143
Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct/Nam / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G			—	—		7		X	X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G	2/25/25	1415	—	—		7		X	X	X	X	X	See Remarks W7	
YAT-YGWA-4I	WG	G	2/25/25	0948	—	—		7		X	X	X	X	X	See Remarks W6	
YAT-YGWA-5I	WG	G	2/25/25	1057	—	—		7		X	X	X	X	X	See Remarks W9	
YAT-YGWA-5D	WG	G	2/25/25	1156	—	—		7		X	X	X	X	X	See Remarks W10	
YAT-YGWA-17S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G	2/25/25	1548	—	—		7		X	X	X	X	X	See Remarks W11	
															See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LIAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 4 of 10

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G	2/25/25	1610	—	—		7		X	X	X	X	X	See Remarks 012
YAT-UGRD-FB-2	WG	G	2/25/25	1206	—	—		7		X	X	X	X	X	See Remarks 013
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM WAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[signature]	2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-30I	WG	G	2/25/25	1455				7		X	X	X	X	X	See Remarks 014
YAT-YGWA-14S	WG	G	2/25/25	1300				7		X	X	X	X	X	See Remarks 015
YAT-YGWA-39	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G	2/25/25	1125				7		X	X	X	X	X	See Remarks 016
YAT-YGWA-3I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	Trevor Williams / ARCADIS	2/26/25 0830
Trevor Williams / ARCADIS	2/26/25 1143	Wyan Williams / Pace	2/26/25 1143
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 2/26/25 1354
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 6 of 10

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-47	WG	G	2/25/25	1655	—	—		7		X	X	X	X	X	See Remarks 017
YAT-YGWA-21I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G						7		X	X	X	X	X	See Remarks
															See Remarks

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	[signature] / ARCADIS	2/26/25 0830
[signature] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[signature] 2/26/25	1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: 7 of 10

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G	2/25/25	1535	—			7		X	X	X	X	X	See Remarks 018	
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App iV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	Ryan Williams / ARCADIS	2/26/25 0830
Ryan Williams / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	Carlos Hale 2/26/25	1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 8 of 10

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

OW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-30I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G	02/25/25	1640	—	—		7		X	X	X	X	X	See Remarks 019
YAT-YGWA-1D	WG	G	02/25/25	1425	—	—		7		X	X	X	X	X	See Remarks 020
YAT-YGWA-2I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	02/25/25	1210	—	—		7		X	X	X	X	X	See Remarks 021
YAT-YGWA-3D	WG	G	02/25/25	1030	—	—		7		X	X	X	X	X	See Remarks 022

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:
Preservation non-conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	02/26/25 0815	ARCADIS	2/26/25 0815
ARCADIS	2/26/25 1143	Ryan Wilson / Pace	2/26/25 1143
Ryan Wilson / Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G	02/25/25	1730	—	—		7		X	X	X	X	X	See Remarks 023
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	02/25/25	—	—	—		7		X	X	X	X	X	See Remarks 024
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis) David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
David Prouty	02/26/25 0815	Arcadis	2/26/25 0815
Arcadis	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	Charles Hanks	2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 10 of 10

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 21, 2025

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92781912001	**YAT-YGWA-17S**	Water	02/25/25 13:05	02/26/25 13:55
92781912002	**YAT-YGWA-18S**	Water	02/25/25 10:12	02/26/25 13:55
92781912003	**YAT-YGWA-18I**	Water	02/25/25 12:10	02/26/25 13:55
92781912004	**YAT-YGWA-39**	Water	02/25/25 15:22	02/26/25 13:55
92781912005	**YAT-YGWA-40**	Water	02/25/25 14:21	02/26/25 13:55
92781912006	**YAT-UGRD-FD-2**	Water	02/25/25 00:00	02/26/25 13:55
92781912007	**YAT-YGWA-21I**	Water	02/25/25 14:15	02/26/25 13:55
92781912008	**YAT-YGWA-4I**	Water	02/25/25 09:48	02/26/25 13:55
92781912009	**YAT-YGWA-5I**	Water	02/25/25 10:57	02/26/25 13:55
92781912010	**YAT-YGWA-5D**	Water	02/25/25 11:56	02/26/25 13:55
92781912011	**YAT-YGWA-20S**	Water	02/25/25 15:48	02/26/25 13:55
92781912012	**YAT-UGRD-EB-2**	Water	02/25/25 16:10	02/26/25 13:55
92781912013	**YAT-UGRD-FB-2**	Water	02/25/25 12:06	02/26/25 13:55
92781912014	**YAT-YGWA-30I**	Water	02/25/25 14:55	02/26/25 13:55
92781912015	**YAT-YGWA-14S**	Water	02/25/25 13:00	02/26/25 13:55
92781912016	**YAT-YGWA-2I**	Water	02/25/25 11:25	02/26/25 13:55
92781912017	**YAT-YGWA-47**	Water	02/25/25 16:55	02/26/25 13:55
92781912018	**YAT-UGRD-FB-1**	Water	02/25/25 15:35	02/26/25 13:55
92781912019	**YAT-YGWA-1I**	Water	02/25/25 16:40	02/26/25 13:55
92781912020	**YAT-YGWA-1D**	Water	02/25/25 14:25	02/26/25 13:55
92781912021	**YAT-YGWA-3I**	Water	02/25/25 12:10	02/26/25 13:55
92781912022	**YAT-YGWA-3D**	Water	02/25/25 10:30	02/26/25 13:55
92781912023	**YAT-UGRD-EB-1**	Water	02/25/25 17:30	02/26/25 13:55
92781912024	**YAT-UGRD-FD-1**	Water	02/25/25 00:00	02/26/25 13:55

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92781912001	**YAT-YGWA-17S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912002	**YAT-YGWA-18S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912003	**YAT-YGWA-18I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912004	**YAT-YGWA-39**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912005	**YAT-YGWA-40**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912006	**YAT-UGRD-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912007	**YAT-YGWA-21I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912008	**YAT-YGWA-4I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912009	**YAT-YGWA-5I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912010	**YAT-YGWA-5D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912011	**YAT-YGWA-20S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912012	**YAT-UGRD-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912013	**YAT-UGRD-FB-2**	EPA 9315	SLC	1	PASI-PA

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912014	**YAT-YGWA-30I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912015	**YAT-YGWA-14S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912016	**YAT-YGWA-2I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912017	**YAT-YGWA-47**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912018	**YAT-UGRD-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912019	**YAT-YGWA-1I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912020	**YAT-YGWA-1D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912021	**YAT-YGWA-3I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912022	**YAT-YGWA-3D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912023	**YAT-UGRD-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912024	**YAT-UGRD-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912001	**YAT-YGWA-17S**					
EPA 9315	Radium-226	0.0768U ± 0.153 (0.353) C:75% T:NA	pCi/L		03/19/25 15:24	
EPA 9320	Radium-228	-0.0461U ± 0.349 (0.826) C:78% T:80%	pCi/L		03/19/25 14:13	
Total Radium Calculation	Total Radium	0.0768U ± 0.502 (1.18)	pCi/L		03/21/25 15:41	
92781912002	**YAT-YGWA-18S**					
EPA 9315	Radium-226	-0.0460U ± 0.140 (0.381) C:75% T:NA	pCi/L		03/19/25 15:24	
EPA 9320	Radium-228	0.359U ± 0.372 (0.770) C:81% T:88%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.359U ± 0.512 (1.15)	pCi/L		03/21/25 15:41	
92781912003	**YAT-YGWA-18I**					
EPA 9315	Radium-226	-0.0469U ± 0.103 (0.293) C:81% T:NA	pCi/L		03/19/25 15:24	
EPA 9320	Radium-228	0.391U ± 0.360 (0.725) C:77% T:88%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.391U ± 0.463 (1.02)	pCi/L		03/21/25 15:41	
92781912004	**YAT-YGWA-39**					
EPA 9315	Radium-226	0.259U ± 0.184 (0.341) C:76% T:NA	pCi/L		03/19/25 15:25	
EPA 9320	Radium-228	0.636U ± 0.433 (0.824) C:80% T:87%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.895U ± 0.617 (1.17)	pCi/L		03/21/25 15:41	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912005	**YAT-YGWA-40**					
EPA 9315	Radium-226	0.240U ± 0.173 (0.320) C:79% T:NA	pCi/L		03/19/25 15:26	
EPA 9320	Radium-228	0.445U ± 0.452 (0.940) C:76% T:82%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.685U ± 0.625 (1.26)	pCi/L		03/21/25 15:41	
92781912006	**YAT-UGRD-FD-2**					
EPA 9315	Radium-226	0.0937U ± 0.111 (0.228) C:84% T:NA	pCi/L		03/19/25 15:32	
EPA 9320	Radium-228	0.462U ± 0.344 (0.672) C:80% T:92%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.556U ± 0.455 (0.900)	pCi/L		03/21/25 15:41	
92781912007	**YAT-YGWA-21I**					
EPA 9315	Radium-226	0.384 ± 0.190 (0.298) C:82% T:NA	pCi/L		03/20/25 09:57	
EPA 9320	Radium-228	0.756U ± 0.503 (0.968) C:76% T:77%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	1.14U ± 0.693 (1.27)	pCi/L		03/21/25 15:41	
92781912008	**YAT-YGWA-4I**					
EPA 9315	Radium-226	0.757 ± 0.245 (0.239) C:78% T:NA	pCi/L		03/20/25 08:34	
EPA 9320	Radium-228	0.781U ± 0.453 (0.845) C:82% T:88%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	1.54 ± 0.698 (1.08)	pCi/L		03/21/25 15:41	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912009	**YAT-YGWA-5I**					
EPA 9315	Radium-226	0.0769U ± 0.134 (0.305) C:87% T:NA	pCi/L		03/20/25 08:35	
EPA 9320	Radium-228	0.690U ± 0.443 (0.843) C:76% T:87%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.767U ± 0.577 (1.15)	pCi/L		03/21/25 15:41	
92781912010	**YAT-YGWA-5D**					
EPA 9315	Radium-226	2.54 ± 0.523 (0.283) C:86% T:NA	pCi/L		03/20/25 08:35	
EPA 9320	Radium-228	1.11 ± 0.522 (0.903) C:78% T:85%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	3.65 ± 1.05 (1.19)	pCi/L		03/21/25 15:41	
92781912011	**YAT-YGWA-20S**					
EPA 9315	Radium-226	0.194U ± 0.155 (0.301) C:89% T:NA	pCi/L		03/20/25 08:35	
EPA 9320	Radium-228	1.01U ± 0.603 (1.15) C:74% T:82%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	1.20U ± 0.758 (1.45)	pCi/L		03/21/25 15:41	
92781912012	**YAT-UGRD-EB-2**					
EPA 9315	Radium-226	0.0555U ± 0.144 (0.340) C:83% T:NA	pCi/L		03/20/25 08:35	
EPA 9320	Radium-228	0.753U ± 0.520 (1.02) C:75% T:89%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	0.809U ± 0.664 (1.36)	pCi/L		03/21/25 15:41	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912013	**YAT-UGRD-FB-2**					
EPA 9315	Radium-226	-0.00958U ± 0.116 (0.304) C:85% T:NA	pCi/L		03/20/25 08:36	
EPA 9320	Radium-228	0.364U ± 0.429 (0.903) C:72% T:81%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	0.364U ± 0.545 (1.21)	pCi/L		03/21/25 15:41	
92781912014	**YAT-YGWA-30I**					
EPA 9315	Radium-226	0.0331U ± 0.135 (0.330) C:85% T:NA	pCi/L		03/20/25 09:36	
EPA 9320	Radium-228	0.352U ± 0.383 (0.799) C:78% T:84%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	0.385U ± 0.518 (1.13)	pCi/L		03/21/25 15:41	
92781912015	**YAT-YGWA-14S**					
EPA 9315	Radium-226	0.0794U ± 0.153 (0.350) C:72% T:NA	pCi/L		03/20/25 09:57	
EPA 9320	Radium-228	0.297U ± 0.385 (0.818) C:77% T:76%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	0.376U ± 0.538 (1.17)	pCi/L		03/21/25 15:41	
92781912016	**YAT-YGWA-2I**					
EPA 9315	Radium-226	0.0842U ± 0.113 (0.242) C:84% T:NA	pCi/L		03/20/25 08:37	
EPA 9320	Radium-228	0.0385U ± 0.350 (0.807) C:76% T:83%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	0.123U ± 0.463 (1.05)	pCi/L		03/21/25 15:41	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912017	**YAT-YGWA-47**					
EPA 9315	Radium-226	0.337U ± 0.201 (0.351) C:73% T:NA	pCi/L		03/20/25 09:58	
EPA 9320	Radium-228	0.761U ± 0.594 (1.20) C:80% T:74%	pCi/L		03/19/25 14:16	
Total Radium Calculation	Total Radium	1.10U ± 0.795 (1.55)	pCi/L		03/21/25 15:41	
92781912018	**YAT-UGRD-FB-1**					
EPA 9315	Radium-226	-0.104U ± 0.105 (0.321) C:89% T:NA	pCi/L		03/20/25 09:35	
EPA 9320	Radium-228	0.857U ± 0.525 (0.998) C:77% T:84%	pCi/L		03/19/25 14:16	
Total Radium Calculation	Total Radium	0.857U ± 0.630 (1.32)	pCi/L		03/21/25 15:41	
92781912019	**YAT-YGWA-1I**					
EPA 9315	Radium-226	0.168U ± 0.145 (0.282) C:88% T:NA	pCi/L		03/20/25 13:18	
EPA 9320	Radium-228	0.810U ± 0.492 (0.939) C:77% T:90%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	0.978U ± 0.637 (1.22)	pCi/L		03/21/25 15:45	
92781912020	**YAT-YGWA-1D**					
EPA 9315	Radium-226	0.295 ± 0.161 (0.242) C:81% T:NA	pCi/L		03/20/25 13:12	
EPA 9320	Radium-228	0.948 ± 0.510 (0.947) C:75% T:90%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	1.24 ± 0.671 (1.19)	pCi/L		03/21/25 15:45	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912021	**YAT-YGWA-3I**					
EPA 9315	Radium-226	0.529 ± 0.212 (0.286) C:87% T:NA	pCi/L		03/20/25 13:12	
EPA 9320	Radium-228	0.934 ± 0.432 (0.728) C:74% T:91%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	1.46 ± 0.644 (1.01)	pCi/L		03/21/25 15:45	
92781912022	**YAT-YGWA-3D**					
EPA 9315	Radium-226	1.33 ± 0.356 (0.320) C:76% T:NA	pCi/L		03/20/25 11:39	
EPA 9320	Radium-228	1.71 ± 0.581 (0.865) C:79% T:95%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	3.04 ± 0.937 (1.19)	pCi/L		03/21/25 15:45	
92781912023	**YAT-UGRD-EB-1**					
EPA 9315	Radium-226	0.0590U ± 0.129 (0.301) C:83% T:NA	pCi/L		03/20/25 11:42	
EPA 9320	Radium-228	1.09 ± 0.470 (0.792) C:80% T:95%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	1.15 ± 0.599 (1.09)	pCi/L		03/21/25 15:45	
92781912024	**YAT-UGRD-FD-1**					
EPA 9315	Radium-226	-0.0914U ± 0.104 (0.332) C:81% T:NA	pCi/L		03/20/25 13:11	
EPA 9320	Radium-228	0.270U ± 0.436 (0.946) C:72% T:91%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	0.270U ± 0.540 (1.28)	pCi/L		03/21/25 15:45	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-17S **Lab ID: 92781912001** Collected: 02/25/25 13:05 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0768U ± 0.153 (0.353) C:75% T:NA**	pCi/L	03/19/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0461U ± 0.349 (0.826) C:78% T:80%**	pCi/L	03/19/25 14:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0768U ± 0.502 (1.18)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-18S **Lab ID: 92781912002** Collected: 02/25/25 10:12 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0460U ± 0.140 (0.381) C:75% T:NA**	pCi/L	03/19/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.359U ± 0.372 (0.770) C:81% T:88%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.359U ± 0.512 (1.15)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-18I **Lab ID: 92781912003** Collected: 02/25/25 12:10 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0469U ± 0.103 (0.293) C:81% T:NA**	pCi/L	03/19/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.391U ± 0.360 (0.725) C:77% T:88%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.391U ± 0.463 (1.02)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-39 **Lab ID: 92781912004** Collected: 02/25/25 15:22 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.259U ± 0.184 (0.341) C:76% T:NA**	pCi/L	03/19/25 15:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.636U ± 0.433 (0.824) C:80% T:87%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.895U ± 0.617 (1.17)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-40 **Lab ID: 92781912005** Collected: 02/25/25 14:21 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.240U ± 0.173 (0.320) C:79% T:NA**	pCi/L	03/19/25 15:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.445U ± 0.452 (0.940) C:76% T:82%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.685U ± 0.625 (1.26)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-FD-2 **Lab ID: 92781912006** Collected: 02/25/25 00:00 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0937U ± 0.111 (0.228) C:84% T:NA**	pCi/L	03/19/25 15:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.462U ± 0.344 (0.672) C:80% T:92%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.556U ± 0.455 (0.900)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-21I **Lab ID: 92781912007** Collected: 02/25/25 14:15 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.384 ± 0.190 (0.298) C:82% T:NA**	pCi/L	03/20/25 09:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.756U ± 0.503 (0.968) C:76% T:77%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.14U ± 0.693 (1.27)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-4I **Lab ID: 92781912008** Collected: 02/25/25 09:48 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.757 ± 0.245 (0.239) C:78% T:NA**	pCi/L	03/20/25 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.781U ± 0.453 (0.845) C:82% T:88%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.54 ± 0.698 (1.08)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-5I **Lab ID: 92781912009** Collected: 02/25/25 10:57 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0769U ± 0.134 (0.305) C:87% T:NA**	pCi/L	03/20/25 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.690U ± 0.443 (0.843) C:76% T:87%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.767U ± 0.577 (1.15)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-5D **Lab ID: 92781912010** Collected: 02/25/25 11:56 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**2.54 ± 0.523 (0.283) C:86% T:NA**	pCi/L	03/20/25 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.11 ± 0.522 (0.903) C:78% T:85%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.65 ± 1.05 (1.19)**	pCi/L	03/21/25 15:41	7440-14-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-20S **Lab ID: 92781912011** Collected: 02/25/25 15:48 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.194U ± 0.155 (0.301) C:89% T:NA**	pCi/L	03/20/25 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.01U ± 0.603 (1.15) C:74% T:82%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.20U ± 0.758 (1.45)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-EB-2 **Lab ID: 92781912012** Collected: 02/25/25 16:10 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0555U ± 0.144 (0.340) C:83% T:NA**	pCi/L	03/20/25 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.753U ± 0.520 (1.02) C:75% T:89%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.809U ± 0.664 (1.36)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-FB-2 **Lab ID: 92781912013** Collected: 02/25/25 12:06 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00958U ± 0.116 (0.304) C:85% T:NA**	pCi/L	03/20/25 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.364U ± 0.429 (0.903) C:72% T:81%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.364U ± 0.545 (1.21)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-30I **Lab ID: 92781912014** Collected: 02/25/25 14:55 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0331U ± 0.135 (0.330) C:85% T:NA**	pCi/L	03/20/25 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.352U ± 0.383 (0.799) C:78% T:84%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.385U ± 0.518 (1.13)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-14S **Lab ID: 92781912015** Collected: 02/25/25 13:00 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0794U ± 0.153 (0.350) C:72% T:NA**	pCi/L	03/20/25 09:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.297U ± 0.385 (0.818) C:77% T:76%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.376U ± 0.538 (1.17)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-2I **Lab ID: 92781912016** Collected: 02/25/25 11:25 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0842U ± 0.113 (0.242) C:84% T:NA**	pCi/L	03/20/25 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0385U ± 0.350 (0.807) C:76% T:83%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.123U ± 0.463 (1.05)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-47 **Lab ID: 92781912017** Collected: 02/25/25 16:55 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.337U ± 0.201 (0.351) C:73% T:NA**	pCi/L	03/20/25 09:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.761U ± 0.594 (1.20) C:80% T:74%**	pCi/L	03/19/25 14:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.10U ± 0.795 (1.55)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-FB-1 **Lab ID: 92781912018** Collected: 02/25/25 15:35 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.104U ± 0.105 (0.321) C:89% T:NA**	pCi/L	03/20/25 09:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.857U ± 0.525 (0.998) C:77% T:84%**	pCi/L	03/19/25 14:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.857U ± 0.630 (1.32)**	pCi/L	03/21/25 15:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-1I **Lab ID: 92781912019** Collected: 02/25/25 16:40 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.168U ± 0.145 (0.282) C:88% T:NA**	pCi/L	03/20/25 13:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.810U ± 0.492 (0.939) C:77% T:90%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.978U ± 0.637 (1.22)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-1D **Lab ID: 92781912020** Collected: 02/25/25 14:25 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.295 ± 0.161 (0.242) C:81% T:NA**	pCi/L	03/20/25 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.948 ± 0.510 (0.947) C:75% T:90%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.24 ± 0.671 (1.19)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-3I **Lab ID: 92781912021** Collected: 02/25/25 12:10 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.529 ± 0.212 (0.286) C:87% T:NA**	pCi/L	03/20/25 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.934 ± 0.432 (0.728) C:74% T:91%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.46 ± 0.644 (1.01)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-3D **Lab ID: 92781912022** Collected: 02/25/25 10:30 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.33 ± 0.356 (0.320) C:76% T:NA**	pCi/L	03/20/25 11:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.71 ± 0.581 (0.865) C:79% T:95%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.04 ± 0.937 (1.19)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-EB-1 **Lab ID: 92781912023** Collected: 02/25/25 17:30 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0590U ± 0.129 (0.301) C:83% T:NA**	pCi/L	03/20/25 11:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.09 ± 0.470 (0.792) C:80% T:95%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.15 ± 0.599 (1.09)**	pCi/L	03/21/25 15:45	7440-14-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-FD-1 **Lab ID: 92781912024** Collected: 02/25/25 00:00 Received: 02/26/25 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0914U ± 0.104 (0.332) C:81% T:NA**	pCi/L	03/20/25 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.270U ± 0.436 (0.946) C:72% T:91%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.270U ± 0.540 (1.28)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

QC Batch: 730120
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781912001, 92781912002, 92781912003, 92781912004, 92781912005, 92781912006, 92781912007, 92781912008, 92781912009, 92781912010, 92781912011, 92781912012, 92781912013, 92781912014, 92781912015, 92781912016, 92781912017, 92781912018

METHOD BLANK: 3553852
Matrix: Water
Associated Lab Samples: 92781912001, 92781912002, 92781912003, 92781912004, 92781912005, 92781912006, 92781912007, 92781912008, 92781912009, 92781912010, 92781912011, 92781912012, 92781912013, 92781912014, 92781912015, 92781912016, 92781912017, 92781912018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.612 ± 0.395 (0.745) C:80% T:84%	pCi/L	03/19/25 14:13	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

QC Batch: 730410 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781912019, 92781912020, 92781912021, 92781912022, 92781912023, 92781912024

METHOD BLANK: 3555194 Matrix: Water
Associated Lab Samples: 92781912019, 92781912020, 92781912021, 92781912022, 92781912023, 92781912024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0615 ± 0.123 (0.285) C:86% T:NA	pCi/L	03/20/25 11:32	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

QC Batch: 730117
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781912001, 92781912002, 92781912003, 92781912004, 92781912005, 92781912006, 92781912007, 92781912008, 92781912009, 92781912010, 92781912011, 92781912012, 92781912013, 92781912014, 92781912015, 92781912016, 92781912017, 92781912018

METHOD BLANK: 3553848
Matrix: Water
Associated Lab Samples: 92781912001, 92781912002, 92781912003, 92781912004, 92781912005, 92781912006, 92781912007, 92781912008, 92781912009, 92781912010, 92781912011, 92781912012, 92781912013, 92781912014, 92781912015, 92781912016, 92781912017, 92781912018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0406 ± 0.152 (0.373) C:63% T:NA	pCi/L	03/19/25 15:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

QC Batch: 730407 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781912019, 92781912020, 92781912021, 92781912022, 92781912023, 92781912024

METHOD BLANK: 3555191 Matrix: Water
Associated Lab Samples: 92781912019, 92781912020, 92781912021, 92781912022, 92781912023, 92781912024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.660 ± 0.368 (0.662) C:76% T:91%	pCi/L	03/20/25 10:54	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781912001	**YAT-YGWA-17S**	EPA 9315	730117		
92781912002	**YAT-YGWA-18S**	EPA 9315	730117		
92781912003	**YAT-YGWA-18I**	EPA 9315	730117		
92781912004	**YAT-YGWA-39**	EPA 9315	730117		
92781912005	**YAT-YGWA-40**	EPA 9315	730117		
92781912006	**YAT-UGRD-FD-2**	EPA 9315	730117		
92781912007	**YAT-YGWA-21I**	EPA 9315	730117		
92781912008	**YAT-YGWA-4I**	EPA 9315	730117		
92781912009	**YAT-YGWA-5I**	EPA 9315	730117		
92781912010	**YAT-YGWA-5D**	EPA 9315	730117		
92781912011	**YAT-YGWA-20S**	EPA 9315	730117		
92781912012	**YAT-UGRD-EB-2**	EPA 9315	730117		
92781912013	**YAT-UGRD-FB-2**	EPA 9315	730117		
92781912014	**YAT-YGWA-30I**	EPA 9315	730117		
92781912015	**YAT-YGWA-14S**	EPA 9315	730117		
92781912016	**YAT-YGWA-2I**	EPA 9315	730117		
92781912017	**YAT-YGWA-47**	EPA 9315	730117		
92781912018	**YAT-UGRD-FB-1**	EPA 9315	730117		
92781912019	**YAT-YGWA-1I**	EPA 9315	730410		
92781912020	**YAT-YGWA-1D**	EPA 9315	730410		
92781912021	**YAT-YGWA-3I**	EPA 9315	730410		
92781912022	**YAT-YGWA-3D**	EPA 9315	730410		
92781912023	**YAT-UGRD-EB-1**	EPA 9315	730410		
92781912024	**YAT-UGRD-FD-1**	EPA 9315	730410		
92781912001	**YAT-YGWA-17S**	EPA 9320	730120		
92781912002	**YAT-YGWA-18S**	EPA 9320	730120		
92781912003	**YAT-YGWA-18I**	EPA 9320	730120		
92781912004	**YAT-YGWA-39**	EPA 9320	730120		
92781912005	**YAT-YGWA-40**	EPA 9320	730120		
92781912006	**YAT-UGRD-FD-2**	EPA 9320	730120		
92781912007	**YAT-YGWA-21I**	EPA 9320	730120		
92781912008	**YAT-YGWA-4I**	EPA 9320	730120		
92781912009	**YAT-YGWA-5I**	EPA 9320	730120		
92781912010	**YAT-YGWA-5D**	EPA 9320	730120		
92781912011	**YAT-YGWA-20S**	EPA 9320	730120		
92781912012	**YAT-UGRD-EB-2**	EPA 9320	730120		
92781912013	**YAT-UGRD-FB-2**	EPA 9320	730120		
92781912014	**YAT-YGWA-30I**	EPA 9320	730120		
92781912015	**YAT-YGWA-14S**	EPA 9320	730120		
92781912016	**YAT-YGWA-2I**	EPA 9320	730120		
92781912017	**YAT-YGWA-47**	EPA 9320	730120		
92781912018	**YAT-UGRD-FB-1**	EPA 9320	730120		
92781912019	**YAT-YGWA-1I**	EPA 9320	730407		
92781912020	**YAT-YGWA-1D**	EPA 9320	730407		
92781912021	**YAT-YGWA-3I**	EPA 9320	730407		
92781912022	**YAT-YGWA-3D**	EPA 9320	730407		
92781912023	**YAT-UGRD-EB-1**	EPA 9320	730407		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781912024	**YAT-UGRD-FD-1**	EPA 9320	730407		
92781912001	**YAT-YGWA-17S**	Total Radium Calculation	734606		
92781912002	**YAT-YGWA-18S**	Total Radium Calculation	734606		
92781912003	**YAT-YGWA-18I**	Total Radium Calculation	734606		
92781912004	**YAT-YGWA-39**	Total Radium Calculation	734606		
92781912005	**YAT-YGWA-40**	Total Radium Calculation	734606		
92781912006	**YAT-UGRD-FD-2**	Total Radium Calculation	734606		
92781912007	**YAT-YGWA-21I**	Total Radium Calculation	734606		
92781912008	**YAT-YGWA-4I**	Total Radium Calculation	734606		
92781912009	**YAT-YGWA-5I**	Total Radium Calculation	734606		
92781912010	**YAT-YGWA-5D**	Total Radium Calculation	734606		
92781912011	**YAT-YGWA-20S**	Total Radium Calculation	734606		
92781912012	**YAT-UGRD-EB-2**	Total Radium Calculation	734606		
92781912013	**YAT-UGRD-FB-2**	Total Radium Calculation	734606		
92781912014	**YAT-YGWA-30I**	Total Radium Calculation	734606		
92781912015	**YAT-YGWA-14S**	Total Radium Calculation	734606		
92781912016	**YAT-YGWA-2I**	Total Radium Calculation	734606		
92781912017	**YAT-YGWA-47**	Total Radium Calculation	734606		
92781912018	**YAT-UGRD-FB-1**	Total Radium Calculation	734606		
92781912019	**YAT-YGWA-1I**	Total Radium Calculation	734608		
92781912020	**YAT-YGWA-1D**	Total Radium Calculation	734608		
92781912021	**YAT-YGWA-3I**	Total Radium Calculation	734608		
92781912022	**YAT-YGWA-3D**	Total Radium Calculation	734608		
92781912023	**YAT-UGRD-EB-1**	Total Radium Calculation	734608		
92781912024	**YAT-UGRD-FD-1**	Total Radium Calculation	734608		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

WO# : 92781912

92781912

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/26/25 (22)

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 1.2

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92781912

PM: BV Due Date: 03/19/25

CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved Vials (N/A)
CC																														
1		2	1		2		2																							
2		2	1		2		2																							
3		2	1		2		2																							
4		2	1		2		2																							
5		2	1		2		2																							
6		2	1		2		2																							
7		2	1		2		2																							
8		2	1		2		2																							
9		2	1		2		2																							
10		2	1		2		2																							
11		2	1		2		2																							
12		2	1		2		2																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO#: 92781912

PM: BV Due Date: 03/19/25

CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/FZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A ~ lab)	SP2T-250 mL Sterile Plastic (N/A ~ lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1		2		2																						
2		2	1		2		2																						
3		2	1		2		2																						
4		2	1		2		2																						
5		2	1		2		2																						
6		2	1		2		2																						
7		2	1		2		2																						
8		2	1		2		2																						
9		2	1		2		2																						
10		2	1		2		2																						
11		2	1		2		2																						
12		2	1		2		2																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92781912

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
	Specify Container Size **							3	3	2	1	3			
	Identify Container Preservative Type***							2	1	1	2	1			
	Analysis Requested														
YAT-YGWA-47	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-21I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G	2/25/25	1305				7		X	X	X	X	X	See Remarks 001
YAT-YGWA-18S	WG	G	2/25/25	1012				7		X	X	X	X	X	See Remarks 002
YAT-YGWA-18I	WG	G	2/25/25	1210				7		X	X	X	X	X	See Remarks 003
YAT-YGWA-20S	WG	G						7		X	X	X	X	X	See Remarks
															See Remarks

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	[signature] / ARCADIS	2/26/25 0830
[signature] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[signature]	2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G	2/25/25	1522	—	—		7		X	X	X	X	X	See Remarks WG	
YAT-YGWA-40	WG	G	2/25/25	1421	—	—		7		X	X	X	X	X	See Remarks DUP	
YAT-YGWA-1I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	[illegible] / ARCADIS	2/26/25 0830
[illegible] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[illegible]	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G	2/25/25	—				7		X	X	X	X	X	See Remarks 006

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	ARCADIS	2/26/25 0830
ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	Charles Hanks	2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

Identify Container Preservative Type***: 2 1 1 2 1
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-47	WG	G			—	—		7		X	X	X	X	X	See Remarks
YAT-YGWA-21I	WG	G	2/25/25	1415	—	—		7		X	X	X	X	X	See Remarks 07
YAT-YGWA-4I	WG	G	2/25/25	0948	—	—		7		X	X	X	X	X	See Remarks 08
YAT-YGWA-5I	WG	G	2/25/25	1057	—	—		7		X	X	X	X	X	See Remarks 09
YAT-YGWA-5D	WG	G	2/25/25	1156	—	—		7		X	X	X	X	X	See Remarks 010
YAT-YGWA-17S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G	2/25/25	1548	—	—		7		X	X	X	X	X	See Remarks 011
															See Remarks

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:
Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) KIM LARSZYNSKI
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ARCADIS	2/26/25 1143	Lynn Williams / Pace	2/26/25 1143
Lynn Williams / Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size: ** — 3 | 3 | 2 | 1 | 3

Identify Container Preservative Type*** — 2 | 1 | 1 | 2 | 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G	2/25/25	1610	—	—		7		X	X	X	X	X	See Remarks 012
YAT-UGRD-FB-2	WG	G	2/25/25	1206	—	—		7		X	X	X	X	X	See Remarks 013
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Kim Wapszynski
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
Specify Container Size **										3	3	2	1	3	
Identify Container Preservative Type***										2	1	1	2	1	
Analysis Requested															
YAT-YGWA-30I	WG	G	2/25/25	1455				7		X	X	X	X	X	See Remarks 014
YAT-YGWA-14S	WG	G	2/25/25	1300				7		X	X	X	X	X	See Remarks 015
YAT-YGWA-39	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G	2/25/25	1125				7		X	X	X	X	X	See Remarks 016
YAT-YGWA-3I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	Arcadis	2/26/25 0830
Arcadis	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
		Charles Hart	2/26/25 1354

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205 346 3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
								Specify Container Size:**		3	3	2	1	3	
								Identify Container Preservative Type***		2	1	1	2	1	
								Analysis Requested							
YAT-YGWA-47	WG	G	2/25/25	1655				7		X	X	X	X	X	See Remarks 017
YAT-YGWA-21I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G						7		X	X	X	X	X	See Remarks
															See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	[signature] / ARCADIS	2/26/25 0830
[signature] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[signature]	2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G	2/25/25	1535				7		X	X	X	X	X	See Remarks QB	
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App iV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) -

Additional instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	[signature] / ARCADIS	2/26/25 0830
[signature] / ARCADIS	2/26/25 1143	Ryan Willis / Pace	2/26/25 1143
Ryan Willis / Pace	2/26/25 1355	[signature] 2/26/25	1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____ Date Results Requested:	DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): [ ] Yes [X] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
								Specify Container Size **		3	3	2	1	3	
								Identify Container Preservative Type***		2	1	1	2	1	
								Analysis Requested							
YAT-YGWA-30I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G	02/25/25	1640	—	—		7		X	X	X	X	X	See Remarks 09
YAT-YGWA-1D	WG	G	02/25/25	1425	—	—		7		X	X	X	X	X	See Remarks 020
YAT-YGWA-2I	WG	G		↑				7		X	X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	02/25/25	1210	—	—		7		X	X	X	X	X	See Remarks 021
YAT-YGWA-3D	WG	G	02/25/25	1030	—	—		7		X	X	X	X	X	See Remarks 022

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

**Container Size- (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - David Beauty
Signature: (Arcadis) - David Beauty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	02/26/25 0815	ARCADIS	2/26/25 0815
ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

**Containter Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCL (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)					Sample Comment
Specify Container Size **										3	3	2	1	3					
Identify Container Preservative Type***										2	1	1	2	1					
Analysis Requested																			
YAT-UGRD-EB-1	WG	G	02/25/25	1730	—	—		7		X	X	X	X	X					See Remarks 523
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X					See Remarks
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X					See Remarks
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X					See Remarks
YAT-UGRD-FD-1	WG	G	02/25/25	—	—	—		7		X	X	X	X	X					See Remarks 524
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X					See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis) - David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
David Prouty	02/26/25 0815	Arcadis	2/26/25 0815
Arcadis	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	Charles Hunt	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 10 of 10

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	3/6/2025
Worklist:	83863
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3553852
MB concentration:	0.612
M/B 2 Sigma CSU:	0.395
MB MDC:	0.745
MB Numerical Performance Indicator:	3.04
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83863	**LCSD83863**
Count Date:	3/19/2025	3/19/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.193	33.193
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.817
Target Conc. (pCi/L, g, F):	4.059	4.064
Uncertainty (Calculated):	0.199	0.199
Result (pCi/L, g, F):	3.620	4.765
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.970	1.179
Numerical Performance Indicator:	-0.87	1.15
Percent Recovery:	89.18%	117.25%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83863	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83863	
Sample Result (pCi/L, g, F):	3.620	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.970	
Sample Duplicate Result (pCi/L, g, F):	4.765	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.179	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.470	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	27.20%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~

MB passes vs ~~recovery~~ activity < MDC

VAL 3/20/25

VAL
3/20/25

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	3/7/2025
Worklist:	83888
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3555191
MB concentration:	0.660
M/B 2 Sigma CSU:	0.368
MB MDC:	0.662
MB Numerical Performance Indicator:	3.52
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83888	LCSD83888
Count Date:	3/20/2025	3/20/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.182	33.182
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.820
Target Conc. (pCi/L, g, F):	4.068	4.046
Uncertainty (Calculated):	0.199	0.198
Result (pCi/L, g, F):	3.452	3.288
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.832	0.806
Numerical Performance Indicator:	-1.41	-1.79
Percent Recovery:	84.85%	81.26%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83888	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83888	
Sample Result (pCi/L, g, F):	3.452	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.832	
Sample Duplicate Result (pCi/L, g, F):	3.288	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.806	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.278	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.33%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~

MB activity < MDC, pass

VAL 3/21/25

VAL 3/21/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/9/2025
Worklist:	83862
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3553848
MB concentration:	0.041
M/B 2 Sigma CSU:	0.152
MB MDC:	0.373
MB Numerical Performance Indicator:	0.52
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83862	**LCSD83862**
Count Date:	3/21/2025	3/20/2025
Spike I.D.:	24-046	24-046
Decay Corrected Spike Concentration (pCi/mL):	31.833	31.833
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.508
Target Conc. (pCi/L, g, F):	6.238	6.272
Uncertainty (Calculated):	0.293	0.295
Result (pCi/L, g, F):	5.033	4.963
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.906	0.895
Numerical Performance Indicator:	-2.48	-2.73
Percent Recovery:	80.68%	79.12%
Status vs Numerical Indicator:	Warning	Warning
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83862	92781920001
Duplicate Sample I.D.	LCSD83862	92781920001DUP
Sample Result (pCi/L, g, F):	5.033	0.339
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.906	0.220
Sample Duplicate Result (pCi/L, g, F):	4.963	0.352
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.895	0.182
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.108	-0.088
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.95%	3.72%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

KT 3-21-25

VAM 3/21/25

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/10/2025
Worklist:	83889
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3555194
MB concentration:	0.062
M/B 2 Sigma CSU:	0.123
MB MDC:	0.285
MB Numerical Performance Indicator:	0.98
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83889	LCSD83889
Count Date:	3/20/2025	3/20/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.014	25.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.510
Target Conc. (pCi/L, g, F):	4.901	4.903
Uncertainty (Calculated):	0.230	0.230
Result (pCi/L, g, F):	5.152	5.817
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.903	1.012
Numerical Performance Indicator:	0.53	1.73
Percent Recovery:	105.12%	118.64%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83889	92781912019
Duplicate Sample I.D.	LCSD83889	92781912019DUP
Sample Result (pCi/L, g, F):	5.152	0.168
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.903	0.145
Sample Duplicate Result (pCi/L, g, F):	5.817	0.100
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.012	0.110
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.960	0.732
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.08%	50.87%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

UAM 3/21/25

CT 3-21-25

Appendix B

Field Sampling Reports

August 2024

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 10:35		**Time Finish 11:05**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	31.96	± 0.1	GWMP
pH (SU)	7.00	6.99	31.77	± 0.1	GWMP
pH (SU)	10.00	9.95	32.31	± 0.1	GWMP
D.O. (%)	N/A	100.00	34.35	± 10%	NA
ORP (mV)	229.0	229.0	33.01	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.99	± 10% of standard	EPA 2023
	20	20.0		
	100	101		
	800	807		

Calibration Check					
Time Start 15:00		**Time Finish 15:45**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.00	± 0.1	GWMP
pH (SU)	7.00	7.00	25.46	± 0.1	GWMP
pH (SU)	10.00	10.00	26.31	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	19.9		
	100	103		
	800	789		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:25		**Time Finish 7:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.43	± 0.1	GWMP
pH (SU)	7.00	7.02	21.98	± 0.1	GWMP
pH (SU)	10.00	10.00	21.38	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.12	± 10%	NA
ORP (mV)	229.0	229.0	20.33	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.1		
	100	96.2		
	800	797		

Calibration Check					
Time Start 15:30		**Time Finish 15:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.15	± 0.1	GWMP
pH (SU)	7.00	7.00	25.48	± 0.1	GWMP
pH (SU)	10.00	10.00	27.11	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	19.6		
	100	94.9		
	800	786		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: Kim Lapszynski

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:00		**Time Finish 7:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.54	± 0.1	GWMP
pH (SU)	7.00	7.00	24.70	± 0.1	GWMP
pH (SU)	10.00	10.00	24.17	± 0.1	GWMP
D.O. (%)	N/A	100.00	29.40	± 10%	NA
ORP (mV)	229.0	229.0	27.99	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10	± 10% of standard	EPA 2023
	20	20.1		
	100	99.5		
	800	794		

Calibration Check					
Time Start 12:28		**Time Finish 13:00**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.54	± 0.1	GWMP
pH (SU)	7.00	7.00	24.70	± 0.1	GWMP
pH (SU)	10.00	10.00	24.17	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.8	± 10% of standard	EPA 2023
	20	20.2		
	100	101		
	800	793		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:10 **Time Finish 7:45**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.08	± 0.1	GWMP
pH (SU)	7.00	7.00	21.92	± 0.1	GWMP
pH (SU)	10.00	10.00	21.51	± 0.1	GWMP
D.O. (%)	N/A	100.00	17.97	± 10%	NA
ORP (mV)	229.0	229.0	20.31	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.1		
	100	99.1		
	800	795		

Calibration Check

Time Start NA **Time Finish NA**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:10 **Time Finish 7:46**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.18	± 0.1	GWMP
pH (SU)	7.00	7.02	21.90	± 0.1	GWMP
pH (SU)	10.00	10.05	21.98	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.21	± 10%	NA
ORP (mV)	229.0	232.9	22.13	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.0		
	100	99.7		
	800	800		

Calibration Check

Time Start 12:30 **Time Finish 12:55**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.84	± 0.1	GWMP
pH (SU)	7.00	7.00	24.66	± 0.1	GWMP
pH (SU)	10.00	10.00	24.64	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.0		
	100	100		
	800	802		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:00		**Time Finish 7:25**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.77	± 0.1	GWMP
pH (SU)	7.00	7.02	20.91	± 0.1	GWMP
pH (SU)	10.00	10.03	20.82	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.87	± 10%	NA
ORP (mV)	229.0	234.5	20.88	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.84	± 10% of standard	EPA 2023
	20	20.2		
	100	100		
	800	800		

Calibration Check					
Time Start 13:00		**Time Finish 13:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	29.15	± 0.1	GWMP
pH (SU)	7.00	6.99	28.43	± 0.1	GWMP
pH (SU)	10.00	9.95	29.40	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	19.7		
	100	101		
	800	796		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: Perry Studebaker

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:40 **Time Finish 8:05**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.24	± 0.1	GWMP
pH (SU)	7.00	7.00	23.21	± 0.1	GWMP
pH (SU)	10.00	10.00	23.15	± 0.1	GWMP
D.O. (%)	N/A	100.00	24.51	± 10%	NA
ORP (mV)	229.0	231.2	23.39	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.1		
	100	99.1		
	800	806		

Calibration Check

Time Start NA **Time Finish NA**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:10		**Time Finish 7:36**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.04	± 0.1	GWMP
pH (SU)	7.00	7.02	20.07	± 0.1	GWMP
pH (SU)	10.00	10.05	19.85	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.60	± 10%	NA
ORP (mV)	229.0	229.0	20.04	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	101		
	800	797		

Calibration Check					
Time Start NA		**Time Finish NA**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:20 **Time Finish 7:45**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.41	± 0.1	GWMP
pH (SU)	7.00	7.02	21.68	± 0.1	GWMP
pH (SU)	10.00	10.05	21.92	± 0.1	GWMP
D.O. (%)	N/A	100.00	21.55	± 10%	NA
ORP (mV)	229.0	233.9	21.34	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.98	± 10% of standard	EPA 2023
	20	19.9		
	100	101		
	800	800		

Calibration Check

Time Start 13:40 **Time Finish 14:09**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.87	± 0.1	GWMP
pH (SU)	7.00	7.00	26.16	± 0.1	GWMP
pH (SU)	10.00	10.00	25.92	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	19.9		
	100	100		
	800	801		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:10 **Time Finish 7:55**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.12	± 0.1	GWMP
pH (SU)	7.00	7.00	22.28	± 0.1	GWMP
pH (SU)	10.00	10.00	21.88	± 0.1	GWMP
D.O. (%)	N/A	100.00	21.50	± 10%	NA
ORP (mV)	229.0	233.5	21.63	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.49	± 10% of standard	EPA 2023
	20	19.3		
	100	101		
	800	800		

Calibration Check

Time Start 13:30 **Time Finish 14:05**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	29.10	± 0.1	GWMP
pH (SU)	7.00	7.00	28.20	± 0.1	GWMP
pH (SU)	10.00	10.00	29.68	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.79	± 10% of standard	EPA 2023
	20	19.6		
	100	101		
	800	800		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: David Prouty

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:10 **Time Finish 7:50**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.09	± 0.1	GWMP
pH (SU)	7.00	7.00	24.21	± 0.1	GWMP
pH (SU)	10.00	10.00	24.05	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.08	± 10%	NA
ORP (mV)	229.0	231.4	23.22	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.93	± 10% of standard	EPA 2023
	20	20.2		
	100	100		
	800	807		

Calibration Check

Time Start 13:40 **Time Finish 14:15**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.35	± 0.1	GWMP
pH (SU)	7.00	7.00	27.59	± 0.1	GWMP
pH (SU)	10.00	10.00	27.14	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	99.8		
	800	802		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:15 **Time Finish 7:50**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.08	± 0.1	GWMP
pH (SU)	7.00	7.00	22.17	± 0.1	GWMP
pH (SU)	10.00	10.00	21.38	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.21	± 10%	NA
ORP (mV)	229.0	229.0	21.39	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.79	± 10% of standard	EPA 2023
	20	20.1		
	100	101		
	800	798		

Calibration Check

Time Start NA **Time Finish NA**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:15 **Time Finish 7:50**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.24	± 0.1	GWMP
pH (SU)	7.00	7.02	21.97	± 0.1	GWMP
pH (SU)	10.00	10.05	22.10	± 0.1	GWMP
D.O. (%)	N/A	100.00	21.75	± 10%	NA
ORP (mV)	229.0	229.0	22.03	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.00	± 10% of standard	EPA 2023
	20	19.7		
	100	100		
	800	780		

Calibration Check

Time Start 12:55 **Time Finish 13:20**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	31.89	± 0.1	GWMP
pH (SU)	7.00	7.00	29.70	± 0.1	GWMP
pH (SU)	10.00	10.00	30.50	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.40	± 10% of standard	EPA 2023
	20	19.9		
	100	100		
	800	784		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:10 **Time Finish 7:50**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.82	± 0.1	GWMP
pH (SU)	7.00	7.00	21.59	± 0.1	GWMP
pH (SU)	10.00	10.00	21.63	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.50	± 10%	NA
ORP (mV)	229.0	229.0	21.78	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.5	± 10% of standard	EPA 2023
	20	21.0		
	100	104		
	800	800		

Calibration Check

Time Start 14:10 **Time Finish 14:30**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	34.8	± 0.1	GWMP
pH (SU)	7.00	7.00	34.99	± 0.1	GWMP
pH (SU)	10.00	10.00	34.88	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.95	± 10% of standard	EPA 2023
	20	19.5		
	100	100		
	800	809		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: Jessica Ware

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:10		**Time Finish 7:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.95	± 0.1	GWMP
pH (SU)	7.00	7.00	21.92	± 0.1	GWMP
pH (SU)	10.00	10.00	21.97	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.23	± 10%	NA
ORP (mV)	229.0	229.0	21.92	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.96	± 10% of standard	EPA 2023
	20	20.1		
	100	98.6		
	800	799		

Calibration Check					
Time Start 12:05		**Time Finish 12:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.34	± 0.1	GWMP
pH (SU)	7.00	7.00	27.25	± 0.1	GWMP
pH (SU)	10.00	10.00	26.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.3	± 10% of standard	EPA 2023
	20	20.1		
	100	100		
	800	801		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:06 **Time Finish 7:25**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.92	± 0.1	GWMP
pH (SU)	7.00	7.00	22.07	± 0.1	GWMP
pH (SU)	10.00	10.00	22.23	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.36	± 10%	NA
ORP (mV)	229.0	233.6	21.56	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.4		
	100	102		
	800	801		

Calibration Check

Time Start NA **Time Finish NA**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-1
Date:	8/19/2024
Sampler:	Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-52	8/19/2024	09:26:00	38.34	70.79	--
PZ-09S	8/19/2024	09:26:00	19.94	57.00	--
PZ-09I	8/19/2024	09:26:00	20.19	77.00	--
YGWC-44	8/19/2024	09:34:00	50.54	89.85	--
YGWC-45	8/19/2024	09:47:00	22.97	73.80	--
YGWC-46A	8/19/2024	09:54:00	39.97	79.22	--
PZ-53	8/19/2024	09:58:00	39.86	72.00	--
PZ-10S	8/19/2024	10:14:00	8.64	16.30	--
PZ-10I	8/19/2024	10:14:00	13.33	46.50	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 9/9/2024 6:48:46 PM +00:00

Project Number	30113037	**Well ID**	YGWC-46A			**Date**	8/21/2024
Project Location	AP-1		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	39.97	**Total Depth (ft-bmp)**	79.22	**Water Column(ft)**	39.25	**Gallons in Well**	6.38
MP Elevation	733.04	**Pump Intake (ft-bmp)**	74	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:36	**Well Volumes Purged**	0.11	**Sample ID**	YAT-YGWC-46A	**Sampled by**	Kim Lapszynski
Purge Start	11:05	**Gallons Purged**	0.71	**Replicate/ Code No.**	YAT-AP1-FD-1	**Color**	Clear
Purge End	11:35						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:05:00	00:00	200	39.97	6.98	1383.05	0.61	8.67	25.60	107.85
11:10:00	05:00	100	40.96	7.17	1515.23	0.65	1.62	21.60	-96.99
11:15:00	10:00	100	41.11	7.34	1540.54	1.59	0.90	22.00	-95.98
11:20:00	15:00	100	41.29	7.43	1547.90	0.63	0.45	21.80	-111.32
11:25:00	20:00	100	41.47	7.44	1537.74	0.31	0.31	21.80	-117.40
11:30:00	25:00	100	41.6	7.41	1526.36	0.59	0.28	21.60	-114.60
11:35:00	30:00	100	41.7	7.37	1514.57	0.58	0.28	21.80	-107.84

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Well located near construction area.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 9/9/2024 6:53:23 PM +00:00

Project Number	30113037	**Well ID**	YGWC-52			**Date**	8/22/2024
Project Location	AP-1		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	60.79	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	38.31	**Total Depth (ft-bmp)**	70.79	**Water Column(ft)**	32.48	**Gallons in Well**	5.28
MP Elevation	755.86	**Pump Intake (ft-bmp)**	65	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:30	**Well Volumes Purged**	0.19	**Sample ID**	YAT-YGWC-52	**Sampled by**	Kim Lapszynski
Purge Start	09:02	**Gallons Purged**	0.99	**Replicate/ Code No.**	YAT-AP1-FB-1	**Color**	Clear
Purge End	09:27						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:02:00	00:00	150	38.31	6.05	388.69	3.60	4.75	23.00	191.69
9:07:00	05:00	150	38.74	6.01	377.02	3.39	2.53	20.10	188.40
9:12:00	10:00	150	38.76	6.01	376.53	1.85	2.50	19.90	174.60
9:17:00	15:00	150	38.76	6.01	384.08	0.82	2.93	19.80	164.85
9:22:00	20:00	150	38.77	6.01	386.29	0.48	3.02	19.80	160.87
9:27:00	25:00	150	38.77	6.01	385.27	0.31	3.06	19.70	159.56

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Field blank collected @ 0940 (YAT-AP1-FB-1)
Equipment blank collected after sampling, YAT-AP1-EB-1 @ 0955

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 9/9/2024 6:56:56 PM +00:00

Project Number	30113037	**Well ID**	YGWC-44			**Date**	8/21/2024
Project Location	AP-1		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	79.95	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	49.5	**Total Depth (ft-bmp)**	89.85	**Water Column(ft)**	40.35	**Gallons in Well**	6.56
MP Elevation	758.35	**Pump Intake (ft-bmp)**	83	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:10	**Well Volumes Purged**	0.16	**Sample ID**	YAT-YGWC-44	**Sampled by**	Kim Lapszynski
Purge Start	09:33	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:08						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:33:00	00:00	150	49.5	7.20	489.63	1.45	9.41	22.30	188.56
9:38:00	05:00	150	50.68	5.98	477.77	0.58	2.39	19.70	-64.23
9:43:00	10:00	100	50.97	5.84	480.32	0.63	0.88	19.80	-62.32
9:48:00	15:00	100	51.27	5.81	480.14	0.47	0.47	19.70	-45.78
9:53:00	20:00	100	51.5	5.81	479.70	0.37	0.40	19.60	-22.72
9:58:00	25:00	100	51.7	5.80	479.81	0.42	0.39	19.70	-2.43
10:03:00	30:00	100	51.81	5.80	479.54	0.19	0.35	19.70	12.17
10:08:00	35:00	100	51.94	5.80	479.52	0.41	0.33	19.70	23.24

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Well is located in construction trailer and parking lot area.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 9/9/2024 6:58:32 PM +00:00

Project Number	30113037	**Well ID**	YGWC-45			**Date**	8/21/2024
Project Location	AP-1		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	63.8	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	22.99	**Total Depth (ft-bmp)**	73.8	**Water Column(ft)**	50.81	**Gallons in Well**	8.26
MP Elevation	719.36	**Pump Intake (ft-bmp)**	69	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:38	**Well Volumes Purged**	0.13	**Sample ID**	YAT-YGWC-45	**Sampled by**	Kim Lapszynski
Purge Start	12:56	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:36						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:56:00	00:00	100	22.99	7.52	644.74	1.58	8.47	28.00	87.12
13:01:00	05:00	100	23.93	6.35	608.35	2.57	1.71	22.20	-40.68
13:06:00	10:00	100	24.12	6.29	599.25	13.30	0.97	21.80	-5.80
13:11:00	15:00	100	24.31	6.39	609.57	12.80	0.74	21.40	17.48
13:16:00	20:00	100	24.5	6.45	615.91	11.20	0.68	21.20	25.75
13:21:00	25:00	100	24.67	6.50	621.12	7.17	0.61	21.00	28.51
13:26:00	30:00	100	24.78	6.54	621.89	4.16	0.59	20.80	28.39
13:31:00	35:00	100	24.89	6.58	625.86	4.20	0.62	20.80	27.49
13:36:00	40:00	100	24.98	6.61	630.82	3.16	0.58	20.60	25.96

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Silt fence blocking surrounding well area.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWC-52
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:26:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	PZ-09S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:26:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	PZ-09I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:26:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWC-44
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:34:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWC-45
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:47:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWC-46A
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:54:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut grass				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	PZ-53
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:58:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut grass				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	PZ-10S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	10:14:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	PZ-10I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	10:14:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Upgradient Wells

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA AP-3, A, B and B'
Date:	8/19/2024
Sampler:	Jessica Ware Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-47	8/19/2024	09:13:00	34.93	59.19	--
YGWA-17S	8/19/2024	10:13:00	13.55	39.85	--
YGWA-18I	8/19/2024	10:21:00	24.75	79.97	--
YGWA-18S	8/19/2024	10:23:00	21.67	39.97	--
YGWA-39	8/19/2024	11:09:00	19.63	68.59	--
YGWA-40	8/19/2024	11:51:00	24.92	48.23	--
YGWA-14S	8/19/2024	11:54:00	17.10	34.96	--
YGWA-30I	8/19/2024	12:09:00	43.27	59.48	--
YGWA-2I	8/19/2024	12:09:00	45.81	63.75	--
YGWA-1I	8/19/2024	12:41:00	38.46	53.60	--
YGWA-1D	8/19/2024	12:42:00	50.88	128.85	--
YGWA-20S	8/19/2024	14:11:00	11.80	29.52	--
YGWA-21I	8/19/2024	14:17:00	31.88	79.90	--
YGWA-5I	8/19/2024	14:30:00	20.48	58.94	--
YGWA-5D	8/19/2024	14:31:00	20.47	129.13	--
YGWA-4I	8/19/2024	14:38:00	24.73	48.81	--
YGWA-3I	8/19/2024	14:55:00	53.09	59.05	--
YGWA-3D	8/19/2024	14:57:00	33.15	134.18	--

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWA-47
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:13:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:13:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:21:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:23:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:09:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:51:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	11:54:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:09:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:09:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:41:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:42:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:11:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:17:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:30:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:31:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-4I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:38:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	14:55:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	14:57:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 2:41:56 PM +00:00

Project Number	30143623	**Well ID**	YGWA-5I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.64	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	20.6	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	38.34	**Gallons in Well**	6.23
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:59	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-5I	**Sampled by**	Perry Studebaker
Purge Start	09:36	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	09:56						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:36:00	00:00	150	20.6	5.74	82.90	1.19	5.58	18.80	140.70
9:41:00	05:00	150	20.68	5.58	82.45	0.66	5.48	18.20	150.39
9:46:00	10:00	150	20.73	5.57	82.20	0.43	5.41	18.10	154.24
9:51:00	15:00	150	20.74	5.57	82.14	0.45	5.28	18.10	155.81
9:56:00	20:00	150	20.77	5.59	81.86	0.61	5.30	18.10	156.35

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Dissolved Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 3:34:14 PM +00:00

Project Number	30143608	**Well ID**	YGWA-1I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	43.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	38.5	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	15.10	**Gallons in Well**	2.45
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:25	**Well Volumes Purged**	0.33	**Sample ID**	YAT-YGWA-1I	**Sampled by**	David Prouty
Purge Start	09:44	**Gallons Purged**	0.82	**Replicate/ Code No.**	YAT-UGRD-FD-1	**Color**	Clear
Purge End	11:18						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:44:00	00:00	100	38.5	6.40	89.50	0.56	3.75	19.30	135.60
9:45:00	01:00	100	38.5	6.26	80.97	0.56	2.94	18.80	66.20
9:50:00	06:00	100	41.83	5.77	59.48	1.54	4.43	17.00	141.73
9:55:00	11:00	100	41.8	5.78	49.28	0.54	5.00	17.40	158.43
10:00:00	16:00	100	41.8	5.85	47.05	0.50	5.32	18.20	160.47
10:05:00	21:00	100	41.8	5.91	43.82	0.40	5.59	18.00	170.04
10:10:00	26:00	100	41.79	5.93	43.10	0.60	5.70	18.00	178.90
10:15:00	31:00	100	41.79	5.92	43.68	0.59	5.60	18.00	184.10

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	2	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	4	HNO3
TDS	500 mL Plastic	2	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 4:21:28 PM +00:00

Project Number	30143623	**Well ID**	YGWA-4I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	38.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.78	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	24.03	**Gallons in Well**	3.90
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:00	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-4I	**Sampled by**	Perry Studebaker
Purge Start	11:11	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	11:54						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:11:00	00:00	150	24.78	6.09	139.68	0.28	3.50	17.80	152.58
11:16:00	05:00	150	24.88	6.04	143.01	0.22	1.61	17.60	153.33
11:21:00	10:00	150	24.93	6.08	140.47	0.36	1.66	17.60	151.57
11:26:00	15:00	150	24.96	6.15	136.29	0.27	2.54	17.60	150.18
11:31:00	20:00	150	24.98	6.15	135.03	0.22	2.71	17.60	149.46
11:36:00	25:00	150	25	6.11	134.44	0.21	2.54	17.10	149.51
11:41:00	29:31	150	25.01	6.09	132.35	0.18	2.25	17.00	147.98
11:46:00	34:31	150	25.03	6.09	131.92	0.21	2.34	17.30	146.53
11:51:00	39:31	150	25.03	6.01	130.26	0.22	2.37	17.40	149.50
11:52:00	40:49	150	25.03	6.03	128.80	0.22	2.45	17.50	148.00
11:54:00	42:36	150	25.03	6.00	127.14		2.45	17.60	148.98
11:54:00	43:09	150	25.03	6.00	127.03		2.48	17.40	148.48

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form

Updated : 8/20/2024 5:17:34 PM +00:00

Project Number	30143608	**Well ID**	YGWA-1D			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	49.87	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	78.98	**Gallons in Well**	12.83
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:30	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YGWA-1D	**Sampled by**	David Prouty
Purge Start	11:47	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:10						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:47:00	00:00	100	49.93	7.10	140.92	0.53	4.36	19.80	-64.78
11:52:00	05:00	100	49.93	7.16	154.01	0.63	2.50	19.70	-77.67
11:57:00	10:00	100	49.93	7.21	160.89	1.17	1.54	19.70	-83.86
12:02:00	15:00	100	49.93	7.23	163.49	0.49	0.98	19.30	-86.56
12:07:00	20:00	100	49.93	7.22	166.80	0.79	0.60	18.30	-85.32
12:12:00	25:00	100	49.93	7.18	165.95	1.27	0.46	18.10	-79.16
12:17:00	30:00	100	49.93	7.17	163.82	1.65	0.36	18.50	-73.34
12:22:00	35:00	100	49.93	7.16	160.88	2.42	0.35	18.80	-67.04

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 5:31:58 PM +00:00

Project Number	30113037	**Well ID**	YGWA-3D			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	83.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	33.08	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	101.10	**Gallons in Well**	16.43
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:02	**Well Volumes Purged**	0.05	**Sample ID**	YAT-YGWA-3D	**Sampled by**	Kim Lapszynski
Purge Start	12:40	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:40:00	00:00	150	33.08	6.84	240.01	0.73	2.56	28.70	18.46
12:45:00	05:00	150	33.18	7.32	232.83	1.05	0.35	20.00	-145.62
12:50:00	10:00	150	33.18	7.51	234.66	0.42	0.15	19.90	-147.79
12:55:00	15:00	150	33.18	7.56	234.23	0.25	0.12	20.00	-147.74
13:00:00	20:00	150	33.19	7.59	234.87	0.27	0.12	20.10	-150.23

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 6:29:30 PM +00:00

Project Number	30143623	**Well ID**	YGWA-20S			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Outer Casing	**Screen Setting (ft-bmp)**	19.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.98	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	17.54	**Gallons in Well**	2.85
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:30	**Well Volumes Purged**		**Sample ID**	YGWA-20S	**Sampled by**	Perry Studebaker
Purge Start	14:00	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	14:25						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:00:00	00:00	150	12.17	5.89	54.09	3.66	7.46	19.30	134.23
14:05:00	05:00	150	12.22	5.74	53.14	2.44	7.35	18.60	150.13
14:10:00	10:00	150	12.26	5.81	54.20	1.63	7.31	19.30	150.68
14:15:00	15:00	150	12.3	5.90	54.28	1.48	7.34	20.00	146.84
14:20:00	20:00	150	12.31	5.98	54.67	1.17	7.30	21.10	145.33
14:25:00	25:00	150	12.32	6.00	53.79	1.07	7.16	21.30	147.91

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 7:41:03 PM +00:00

Project Number	30113037	**Well ID**	YGWA-3I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.85	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	52.09	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	6.96	**Gallons in Well**	1.13
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:30	**Well Volumes Purged**	1.40	**Sample ID**	YAT-YGWA-3I	**Sampled by**	Kim Lapszynski
Purge Start	13:39	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:39:00	00:00	150	52.09	7.46	211.54	0.74	7.29	27.50	65.47
13:44:00	05:00	150	52.4	7.43	266.56	0.42	5.50	20.30	83.54
13:49:00	10:00	150	52.54	7.37	291.48	0.34	3.62	19.20	86.77
13:54:00	15:00	150	52.67	7.35	291.08	0.41	2.07	18.80	15.19
13:59:00	20:00	150	52.76	7.36	275.80	0.31	1.52	18.70	-48.30
14:04:00	25:00	100	52.74	7.38	259.06	0.14	1.20	18.60	-72.17
14:09:00	30:00	100	52.68	7.39	252.09	0.19	1.09	20.30	-79.51
14:14:00	35:00	100	52.66	7.42	245.56	0.24	0.95	20.10	-84.80
14:19:00	40:00	100	52.65	7.45	233.23	0.17	0.70	19.90	-93.96
14:24:00	45:00	100	52.65	7.46	226.08	0.10	0.56	19.90	-98.73
14:29:00	50:00	100	52.65	7.47	223.09	0.19	0.55	19.70	-100.82

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, SO4, F	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 8:01:32 PM +00:00

Project Number	30143608	**Well ID**	YGWA-2I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	53.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	45.85	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	17.90	**Gallons in Well**	2.91
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	15:15	**Well Volumes Purged**	0.35	**Sample ID**	YAT-YGWA-2I	**Sampled by**	David Prouty
Purge Start	14:23	**Gallons Purged**	1.01	**Replicate/ Code No.**	YAT-UGRD-FB-1	**Color**	Clear
Purge End	15:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:23:00	00:00	100	45.85	6.59	252.65		7.01	26.80	215.19
14:23:00	00:21	100	46.3	6.59	238.94	1.93	6.88	25.80	216.82
14:28:00	05:21	100	46.71	6.53	223.54	1.39	4.73	21.70	99.84
14:33:00	10:21	80	47.05	6.62	220.34	0.90	2.54	20.80	91.66
14:38:00	15:21	80	47.45	6.65	219.70	1.47	1.51	20.40	158.85
14:43:00	20:21	80	47.86	6.67	220.63	0.74	1.22	20.90	178.36
14:48:00	25:21	80	47.96	6.72	220.01	1.28	1.10	21.50	192.75
14:53:00	30:21	80	48.3	6.78	218.40	1.71	1.01	21.40	189.08
14:58:00	35:21	80	48.5	6.83	217.17	0.61	1.02	21.30	171.59
15:03:00	40:21	80	48.66	6.87	218.02	0.62	1.03	22.20	191.40
15:08:00	45:21	80	48.75	6.91	219.01	1.47	0.98	22.80	188.23

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 8:28:31 PM +00:00

Project Number	30143622	**Well ID**	YGWA-18I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.67	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.73	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	55.24	**Gallons in Well**	8.98
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:22	**Well Volumes Purged**	0.09	**Sample ID**	YGWA-18I	**Sampled by**	Jessica Ware
Purge Start	13:59	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:21						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:59:00	00:00	150	24.73	7.03	108.21	0.88	7.09	21.70	199.15
14:04:00	05:00	150	24.82	5.88	111.35	0.76	4.30	19.50	208.24
14:09:00	10:00	150	24.94	5.75	110.38	0.54	4.17	18.70	217.83
14:14:00	15:00	150	24.89	5.74	110.06	0.66	4.22	18.80	212.32
14:19:00	20:00	150	24.97	5.75	110.27	0.48	4.20	18.70	211.68

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 8:36:30 PM +00:00

Project Number	30113037	**Well ID**	YGWA-14S			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	24.66	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	17.11	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	17.85	**Gallons in Well**	2.90
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:18	**Well Volumes Purged**	0.36	**Sample ID**	YAT-YGWA-14S	**Sampled by**	Kim Lapszynski
Purge Start	15:56	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:16						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:56:00	00:00	200	17.11	6.65	79.67	0.67	8.17	27.70	176.48
16:01:00	05:00	200	17.64	5.59	65.11	0.20	7.52	21.30	179.17
16:06:00	10:00	200	17.65	5.51	63.01	0.34	7.35	21.00	182.28
16:11:00	15:00	200	17.65	5.49	62.72	0.36	7.30	20.60	184.43
16:16:00	20:00	200	17.65	5.49	62.84	0.26	7.25	20.50	187.24

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, SO4, F	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 10:02:39 PM +00:00

Project Number	30113037	**Well ID**	YGWA-30I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.18	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	43.25	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	16.23	**Gallons in Well**	2.64
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:37	**Well Volumes Purged**	0.30	**Sample ID**	YAT-YGWA-30I	**Sampled by**	Kim Lapszynski
Purge Start	17:15	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:35						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:15:00	00:00	150	43.25	6.79	38.00	0.52	8.25	29.70	171.99
17:20:00	05:00	150	43.26	6.13	39.84	0.26	8.15	22.50	175.78
17:25:00	10:00	150	43.27	6.09	40.66	0.24	7.85	21.80	174.68
17:30:00	15:00	150	43.27	6.07	40.72	0.17	7.75	21.60	175.61
17:35:00	20:00	150	43.28	6.07	40.97	0.16	7.81	21.30	175.69

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, SO4, F	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 10:17:49 PM +00:00

Project Number	30143608	**Well ID**	YGWA-47			**Date**	8/20/2024
Project Location	AP-1		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.4	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	34.92	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	24.27	**Gallons in Well**	3.94
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	17:35	**Well Volumes Purged**	0.18	**Sample ID**	YGWA-47	**Sampled by**	David Prouty
Purge Start	17:02	**Gallons Purged**	0.69	**Replicate/ Code No.**		**Color**	Clear
Purge End	18:08						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:02:00	00:00	100	34.92	6.28	205.75	0.93	7.14	25.60	175.70
17:07:00	05:00	100	35.15	5.59	213.74	0.84	3.88	22.00	215.73
17:13:00	11:11	100	35.2	5.48	218.25	0.42	2.76	21.40	229.53
17:18:00	16:11	100	35.2	5.48	218.87	0.29	2.53	21.30	230.81
17:23:00	21:11	100	35.2	5.49	219.21	0.34	2.45	21.20	233.75
17:28:00	26:11	100	35.2	5.49	218.49	0.17	2.42	20.90	236.11

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/21/2024 11:00:08 AM +00:00

Project Number	30143623	**Well ID**	YGWA-21I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	31.93	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	47.97	**Gallons in Well**	7.79
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:40	**Well Volumes Purged**		**Sample ID**	YGWA-21I	**Sampled by**	Perry Studebaker
Purge Start	16:07	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	17:40						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:07:00	00:00	150	34.29	6.64	192.33	4.18	0.61	21.40	-80.47
16:12:00	05:00	150	34.98	6.60	187.26	3.95	0.36	21.00	-101.90
16:17:00	10:00	100	35.71	6.52	177.95	2.66	0.29	21.40	-103.56
16:22:00	15:00	100	36.05	6.52	173.38	2.32	0.31	22.60	-102.44
16:27:00	20:00	50	36.55	6.57	170.60	2.18	0.30	22.70	-105.41
16:32:00	25:00	50	36.67	6.62	172.86	1.60	0.30	23.50	-106.72
16:37:00	30:00	50	36.78	6.67	175.31	1.38	0.33	24.80	-107.58

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Pump rate decreased to 50ml due to drawdown (Geoff Gay approved)

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/21/2024 3:27:13 PM +00:00

Project Number	30143608	**Well ID**	YGWA-18S			**Date**	8/21/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.97	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.7	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	18.27	**Gallons in Well**	2.97
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	09:45	**Well Volumes Purged**	0.36	**Sample ID**	YGWA-18S	**Sampled by**	David Prouty
Purge Start	08:56	**Gallons Purged**	1.06	**Replicate/ Code No.**	YAT-UGRD-FD-2	**Color**	Clear
Purge End	11:16						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
8:56:00	00:00	100	21.92	5.30	56.71	10.60	5.25	19.30	242.23
9:01:00	05:00	100	22.1	5.22	55.97	9.38	3.79	18.60	261.23
9:06:00	10:00	100	22.1	5.24	55.47	7.81	3.58	18.50	264.43
9:11:00	15:00	100	22.05	5.26	55.50	6.61	3.48	18.80	266.12
9:16:00	20:00	100	22.04	5.28	55.15	6.06	3.45	18.90	265.68
9:21:00	25:00	100	22.04	5.27	55.42	6.48	3.37	18.90	267.40
9:26:00	30:00	100	22.03	5.28	55.23	4.89	3.33	18.90	271.20
9:31:00	35:00	100	22.03	5.29	55.13	4.06	3.26	19.00	269.50
9:36:00	40:00	100	22.03	5.29	55.25	3.76	3.23	19.10	269.02

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/21/2024 5:27:41 PM +00:00

Project Number	30143608	**Well ID**	YGWA-39			**Date**	8/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	58.09	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	19.74	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	48.85	**Gallons in Well**	7.94
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:40	**Well Volumes Purged**	0.08	**Sample ID**	YAT-YGWA-39	**Sampled by**	David Prouty
Purge Start	12:08	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:19						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:08:00	00:00	100	19.95	7.32	368.33		6.67	27.20	181.76
12:13:00	05:00	100	19.85	6.00	374.33	1.93	0.86	20.80	58.37
12:18:00	10:00	100	19.92	5.95	376.50	0.47	0.39	20.40	78.83
12:23:00	15:00	100	19.92	5.94	377.38	0.30	0.31	20.30	77.19
12:28:00	20:00	100	19.92	5.94	377.29	0.21	0.25	20.80	81.88
12:33:00	25:00	100	19.92	5.94	378.26	1.90	0.26	21.30	88.94

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/21/2024 7:55:13 PM +00:00

Project Number	30143608	**Well ID**	YGWA-40			**Date**	8/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	37.73	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.97	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	23.26	**Gallons in Well**	3.78
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	15:15	**Well Volumes Purged**	0.17	**Sample ID**	YAT-YGWA-40	**Sampled by**	David Prouty
Purge Start	14:44	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:50						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:44:00	00:00	100	25.3	5.38	106.91	0.94	2.12	23.40	224.98
14:49:00	05:00	100	25.32	4.96	101.77	0.42	0.33	20.70	310.31
14:54:00	10:00	100	25.35	4.94	100.60	0.16	0.20	20.10	355.49
14:59:00	15:00	100	25.38	4.99	99.01	0.22	0.18	19.90	389.94
15:04:00	20:00	100	25.4	5.02	98.74	0.16	0.15	20.00	421.97
15:09:00	25:00	100	25.4	5.03	97.77	0.23	0.14	19.70	459.51

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Collected EB YAT-UGRD-EB-1 at 1525

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/21/2024 8:06:04 PM +00:00

Project Number	30143622	**Well ID**	YGWA-5D			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	76 °F, Sunny, winds at 0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.83	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	20.28	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	108.85	**Gallons in Well**	17.69
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:56	**Well Volumes Purged**	0.04	**Sample ID**	YAT-YGWA-5D	**Sampled by**	Jessica Ware
Purge Start	09:30	**Gallons Purged**	0.79	**Replicate/ Code No.**	YAT-UGRD-FB-2	**Color**	Clear
Purge End	09:56						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:30:00	00:00	100	20.28	7.3	210.47		4.11	20.98	175.88
9:35:00	5	125	20.54	7.27	208.33	2.62	0.7	18.97	265.00
9:40:00	10	125	20.54	7.42	213.36	0.67	0.44	19.00	269.20
9:45:00	15	125	20.54	7.52	216.34	0.97	0.35	19.04	268.50
9:50:00	20	125	20.54	7.56	217.50	0.73	0.32	19.06	269.00
9:55:00	25	125	20.54	7.57	216.57	1.26	0.36	19.16	265.30

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/21/2024 8:06:05 PM +00:00

Project Number	30143622	**Well ID**	YGWA-17S			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**				
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	13.58	**Total Depth (ft-bmp)**	39.85	**Water Column(ft)**	26.27	**Gallons in Well**	4.27
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:45	**Well Volumes Purged**	0.25	**Sample ID**	YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	12:14	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:44						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:14:00	00:00	100	13.58	5.92	101.71	2.96	4.40	21.70	45.62
12:19:00	05:00	175	13.98	5.45	88.41	0.39	2.26	19.70	79.87
12:24:00	10:00	175	14	5.46	88.65	0.40	2.25	19.50	91.69
12:29:00	15:00	175	13.97	5.49	94.90	0.56	2.21	19.10	99.06
12:34:00	20:00	175	14.02	5.49	95.04	0.64	2.11	18.90	101.70
12:39:00	25:00	175	14.02	5.50	95.20		2.07	18.90	107.24

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Last turbidity reading at = 0.62NTU

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

February 2025

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/25/2025

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023326
Turbidity Meter	HACH 2100Q	216557

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 7:30		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	12.13	± 0.1	GWMP
pH (SU)	7.00	7.04	12.98	± 0.1	GWMP
pH (SU)	10.00	10.00	11.93	± 0.1	GWMP
D.O. (%)	N/A	100.00	11.18	± 10%	NA
ORP (mV)	240.0	240.0	11.39	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.0		
	100	99.5		
	800	805		

Calibration Check					
Time Start 12:23		**Time Finish 12:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.95	± 0.1	GWMP
pH (SU)	7.00	7.03	18.26	± 0.1	GWMP
pH (SU)	10.00	10.00	18.12	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.98	± 10% of standard	EPA 2023
	20	20.6		
	100	98.1		
	800	798		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/26/2025

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023326
Turbidity Meter	HACH 2100Q	216557

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 7:20		**Time Finish 7:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	12.73	± 0.1	GWMP
pH (SU)	7.00	7.00	13.70	± 0.1	GWMP
pH (SU)	10.00	10.00	12.12	± 0.1	GWMP
D.O. (%)	N/A	100.00	10.44	± 10%	NA
ORP (mV)	240.0	240.0	11.15	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.2		
	100	99.8		
	800	800		

Calibration Check					
Time Start 12:30		**Time Finish 12:45**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.12	± 0.1	GWMP
pH (SU)	7.00	7.00	23.62	± 0.1	GWMP
pH (SU)	10.00	10.00	24.43	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	21.3		
	100	104		
	800	796		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/27/2025

Calibrated By: Kim Lapszynski

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023326
Turbidity Meter	HACH 2100Q	216557

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 7:35		**Time Finish 7:48**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	15.84	± 0.1	GWMP
pH (SU)	7.00	7.00	16.28	± 0.1	GWMP
pH (SU)	10.00	10.00	16.06	± 0.1	GWMP
D.O. (%)	N/A	100.00	14.58	± 10%	NA
ORP (mV)	240.0	240.0	15.67	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.1		
	100	100		
	800	800		

Calibration Check					
Time Start 12:40		**Time Finish 12:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.25	± 0.1	GWMP
pH (SU)	7.00	7.00	24.41	± 0.1	GWMP
pH (SU)	10.00	10.00	23.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.95	± 10% of standard	EPA 2023
	20	19.8		
	100	101		
	800	798		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/25/2025

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1018751
Turbidity Meter	HACH 2100Q	20131

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 8:20		**Time Finish 8:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	13.00	± 0.1	GWMP
pH (SU)	7.00	7.00	13.27	± 0.1	GWMP
pH (SU)	10.00	10.00	12.89	± 0.1	GWMP
D.O. (%)	N/A	100.00	13.21	± 10%	NA
ORP (mV)	240.0	240.0	13.70	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	19.9		
	100	102		
	800	795		

Calibration Check					
Time Start 13:35:00 PM		**Time Finish 12:48**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.68	± 0.1	GWMP
pH (SU)	7.00	7.00	20.80	± 0.1	GWMP
pH (SU)	10.00	10.05	21.38	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.92	± 10% of standard	EPA 2023
	20	20.3		
	100	99.2		
	800	794		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/26/2025

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1018751
Turbidity Meter	HACH 2100Q	20131

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 7:00		**Time Finish 7:25**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	11.42	± 0.1	GWMP
pH (SU)	7.00	7.00	12.20	± 0.1	GWMP
pH (SU)	10.00	10.00	11.71	± 0.1	GWMP
D.O. (%)	N/A	100.00	9.68	± 10%	NA
ORP (mV)	240.0	240.0	13.16	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	19.8		
	100	101		
	800	795		

Calibration Check					
Time Start 13:00		**Time Finish 13:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.36	± 0.1	GWMP
pH (SU)	7.00	7.00	20.27	± 0.1	GWMP
pH (SU)	10.00	10.00	20.75	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.91	± 10% of standard	EPA 2023
	20	19.8		
	100	102		
	800	801		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/27/2025

Calibrated By: Perry Studebaker

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1018751
Turbidity Meter	HACH 2100Q	20131

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 7:40		**Time Finish 8:05**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	13.94	± 0.1	GWMP
pH (SU)	7.00	7.00	14.32	± 0.1	GWMP
pH (SU)	10.00	10.00	14.02	± 0.1	GWMP
D.O. (%)	N/A	100.00	12.40	± 10%	NA
ORP (mV)	240.0	240.0	13.77	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.98	± 10% of standard	EPA 2023
	20	20.1		
	100	100		
	800	803		

Calibration Check					
Time Start NA		**Time Finish NA**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/25/2025

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1029232
Turbidity Meter	HACH 2100Q	23080D000331

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:50		**Time Finish 8:15**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.09	± 0.1	GWMP
pH (SU)	7.00	7.00	13.77	± 0.1	GWMP
pH (SU)	10.00	10.00	13.76	± 0.1	GWMP
D.O. (%)	N/A	100.00	15.72	± 10%	NA
ORP (mV)	229.0	229.0	15.41	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	101		
	800	NR		

Calibration Check					
Time Start 13:20		**Time Finish 13:40**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.08	± 0.1	GWMP
pH (SU)	7.00	7.00	22.58	± 0.1	GWMP
pH (SU)	10.00	10.00	22.54	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	101		
	800	NR		

Notes:
NR = Not recorded.

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/26/2025

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1029232
Turbidity Meter	HACH 2100Q	23080D000331

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:10		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	10.07	± 0.1	GWMP
pH (SU)	7.00	7.00	11.02	± 0.1	GWMP
pH (SU)	10.00	10.00	9.52	± 0.1	GWMP
D.O. (%)	N/A	100.00	15.48	± 10%	NA
ORP (mV)	229.0	229.0	9.68	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.3	± 10% of standard	EPA 2023
	20	20.2		
	100	101		
	800	NR		

Calibration Check					
Time Start 15:40		**Time Finish 16:20**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.81	± 0.1	GWMP
pH (SU)	7.00	7.00	25.23	± 0.1	GWMP
pH (SU)	10.00	10.00	22.68	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.0		
	100	101		
	800	NR		

Notes:
NR = Not recorded.

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/27/2025

Calibrated By: David Prouty

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1029232
Turbidity Meter	HACH 2100Q	23080D000331

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:40		**Time Finish 8:10**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.90	± 0.1	GWMP
pH (SU)	7.00	7.00	15.16	± 0.1	GWMP
pH (SU)	10.00	10.00	13.96	± 0.1	GWMP
D.O. (%)	N/A	100.00	18.11	± 10%	NA
ORP (mV)	229.0	229.0	13.45	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	100		
	800	NR		

Calibration Check					
Time Start NA		**Time Finish NA**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:
NR = Not recorded.

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/25/2025

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023340
Turbidity Meter	Hach 2100Q	23070D000225

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:30		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	8.32	± 0.1	GWMP
pH (SU)	7.00	7.00	8.39	± 0.1	GWMP
pH (SU)	10.00	10.00	9.69	± 0.1	GWMP
D.O. (%)	N/A	100.00	8.86	± 10%	NA
ORP (mV)	229.0	229.0	11.79	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.93	± 10% of standard	EPA 2023
	20	20.4		
	100	101		
	800	804		

Calibration					
Time Start 11:15		**Time Finish 11:25**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.00	16.77	± 0.1	GWMP
pH (SU)	7.00	7.00	17.65	± 0.1	GWMP
pH (SU)	10.00	10.00	17.18	± 0.1	GWMP

Calibration Check					
Time Start 13:25		**Time Finish 13:40**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	19.33	± 0.1	GWMP
pH (SU)	7.00	7.00	19.98	± 0.1	GWMP
pH (SU)	10.00	10.00	19.32	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.95	± 10% of standard	EPA 2023
	20	20.0		
	100	100		
	800	804		

Notes:
Calibration at 11:15 AM due to replacing the pH sensor on the aquatroll. Replaced and recalibrated pH only.

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/26/2025

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023340
Turbidity Meter	Hach 2100Q	23070D000225

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:30		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	11.97	± 0.1	GWMP
pH (SU)	7.00	7.00	11.82	± 0.1	GWMP
pH (SU)	10.00	10.00	12.24	± 0.1	GWMP
D.O. (%)	N/A	100.00	16.69	± 10%	NA
ORP (mV)	229.0	229.0	14.31	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.2		
	100	100		
	800	796		

Calibration Check					
Time Start 12:35		**Time Finish 12:45**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.53	± 0.1	GWMP
pH (SU)	7.00	7.00	20.90	± 0.1	GWMP
pH (SU)	10.00	10.00	20.63	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.10	± 10% of standard	EPA 2023
	20	19.9		
	100	100		
	800	797		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/27/2025

Calibrated By: Jessica Ware

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023340
Turbidity Meter	Hach 2100Q	23070D000225

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:30		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.50	± 0.1	GWMP
pH (SU)	7.00	7.00	17.35	± 0.1	GWMP
pH (SU)	10.00	10.00	18.46	± 0.1	GWMP
D.O. (%)	N/A	100.00	15.62	± 10%	NA
ORP (mV)	229.0	229.0	16.51	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	19.8		
	100	99.0		
	800	800		

Calibration Check					
Time Start 12:25		**Time Finish 12:40**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.25	± 0.1	GWMP
pH (SU)	7.00	7.00	21.99	± 0.1	GWMP
pH (SU)	10.00	10.00	21.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.2		
	100	100		
	800	800		

Notes:

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-1
Date:	2/24/2025
Sampler:	David Prouty
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-10S	2/24/2025	10:50:00	6.60	16.30	--
PZ-10I	2/24/2025	10:53:00	11.25	46.50	--
YGWC-45	2/24/2025	10:59:00	22.13	73.80	--
YGWC-46A	2/24/2025	11:05:00	37.85	79.22	--
PZ-53	2/24/2025	11:08:00	37.73	72.00	--
YGWC-44	2/24/2025	11:15:00	50.68	89.85	--
PZ-09S	2/24/2025	11:22:00	16.81	57.00	--
PZ-09I	2/24/2025	11:24:00	16.99	77.00	--
YGWC-52	2/24/2025	11:30:00	38.50	70.79	--

February 2025 Well Inspection Results
AP-1 Well Locations
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Location/Identification				Protective Casing				
	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)	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-10S	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-10I	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-9S	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-9I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-45	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-46A	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-44	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-52	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-53	Y	Y	N	Y	Y	Y	Y	Y	Y

February 2025 Well Inspection Results
AP-1 Well Locations
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Surface Pad			Internal Casing			Corrective actions as needed, by date:
	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-10S	Y	Y	Y	Y	Y	Y	
PZ-10I	Y	Y	Y	Y	Y	Y	
PZ-9S	Y	Y	Y	Y	Y	Y	
PZ-9I	Y	Y	Y	Y	Y	Y	
YGWC-45	Y	Y	Y	Y	Y	Y	
YGWC-46A	Y	Y	Y	Y	Y	Y	
YGWC-44	Y	Y	Y	Y	Y	Y	
YGWC-52	Y	Y	Y	Y	Y	Y	
PZ-53	Y	Y	Y	Y	Y	Y	

Groundwater Sampling Form

Updated : 2/26/2025 2:52:49 PM +00:00

Project Number	30143623	**Well ID**	YGWC-52			**Date**	2/26/2025
Project Location	AP-1		**Weather(°F)**				
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	60.79	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	38.85	**Total Depth (ft-bmp)**	70.79	**Water Column(ft)**	31.94	**Gallons in Well**	5.19
MP Elevation	755.86	**Pump Intake (ft-bmp)**	65	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:35	**Well Volumes Purged**		**Sample ID**	YAT-YGWC-52	**Sampled by**	Perry Studebaker
Purge Start	09:15	**Gallons Purged**		**Replicate/ Code No.**	YAT-AP1-FB-1	**Color**	Clear
Purge End	10:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:15:00	00:00	200	38.85	6.98	266.70	1.26	6.91	14.00	194.41
9:20:00	05:00	200	39.24	6.01	263.30	1.87	3.61	16.10	191.86
9:25:00	10:00	200	39.31	5.98	261.27	0.77	3.24	16.30	189.78
9:30:00	15:00	200	39.31	5.97	261.11	0.72	3.15	16.40	186.35
9:35:00	20:00	200	39.31	5.97	260.14	0.48	3.13	16.60	183.77

Constituent Sampled	Container	Number	Preservative
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None

Comments: FB taken at this location previous day while setting up bladder pump, YAT-AP1-FB-1 sampled at 1720 2/25/25

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/26/2025 4:58:00 PM +00:00

Project Number	30143623	**Well ID**	YGWC-45			**Date**	2/26/2025
Project Location	AP-1		**Weather(°F)**	It is . The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	63.8	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	22.55	**Total Depth (ft-bmp)**	73.8	**Water Column(ft)**	51.25	**Gallons in Well**	8.33
MP Elevation	719.36	**Pump Intake (ft-bmp)**	69	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:36	**Well Volumes Purged**		**Sample ID**	YAT-YGWC-45	**Sampled by**	Perry Studebaker
Purge Start	10:46	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	11:56						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:46:00	00:00	200	22.55	6.82	522.25	11.10	5.06	18.10	184.15
10:51:00	05:00	200	23.98	6.33	496.67	47.90	0.91	18.80	61.00
10:56:00	10:00	200	24.42	6.37	501.94	33.40	0.50	19.10	58.98
11:01:00	15:00	200	24.67	6.44	508.71	15.70	0.54	19.20	50.66
11:06:00	20:00	200	24.85	6.49	513.55	11.50	0.55	19.30	43.68
11:11:00	25:00	200	25.07	6.53	516.97	8.11	0.48	19.40	36.53
11:16:00	30:00	200	25.14	6.56	518.15	6.80	0.47	19.40	31.19
11:21:00	35:00	200	25.16	6.60	524.12	5.76	0.38	19.70	23.71
11:26:00	40:00	200	25.22	6.61	525.43	4.41	0.33	19.60	18.07
11:31:00	45:00	200	25.26	6.61	526.84	3.71	0.38	19.90	14.96
11:36:00	50:00	200	25.28	6.63	528.97	2.55	0.37	20.00	12.17

Constituent Sampled	Container	Number	Preservative
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/26/2025 11:25:10 PM +00:00

Project Number	30143623	**Well ID**	YGWC-46A			**Date**	2/26/2025
Project Location	AP-1		**Weather(°F)**	75.7 degrees F and Clear. The wind is blowing S/SW at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	38.36	**Total Depth (ft-bmp)**	79.22	**Water Column(ft)**	40.86	**Gallons in Well**	6.64
MP Elevation	733.04	**Pump Intake (ft-bmp)**	74	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:40	**Well Volumes Purged**		**Sample ID**	YAT-YGWC-46A	**Sampled by**	Perry Studebaker
Purge Start	17:10	**Gallons Purged**		**Replicate/ Code No.**	YAT-AP1-FD-1	**Color**	Clear
Purge End	18:27						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:10:00	00:00	150	38.54	6.70	1370.66	0.42	1.59	20.20	86.95
17:15:00	05:00	150	39.93	6.83	1402.28	0.48	1.03	20.40	-10.38
17:20:00	10:00	150	40.28	6.82	1386.17	0.70	0.48	20.20	-17.77
17:25:00	15:00	150	40.65	6.84	1374.16	0.45	0.33	20.10	-23.46
17:30:00	20:00	150	41	6.84	1371.27	0.66	0.22	19.90	-26.37
17:35:00	25:00	150	41.14	6.85	1368.42	0.41	0.20	19.90	-27.50
17:40:00	30:00	150	41.28	6.85	1356.18	0.45	0.18	19.70	-27.66

Constituent Sampled	Container	Number	Preservative
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None

Comments: Well resampled due to issue with vu situ program falsely stating all parameters stabile

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/10/2025 12:53:35 PM +00:00

Project Number	30143623	**Well ID**	YGWC-44			**Date**	2/26/2025
Project Location	AP-1		**Weather(°F)**	74.1 degrees F and Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	79.95	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	51.02	**Total Depth (ft-bmp)**	89.85	**Water Column(ft)**	38.83	**Gallons in Well**	6.31
MP Elevation	758.35	**Pump Intake (ft-bmp)**	83	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:50	**Well Volumes Purged**		**Sample ID**	YAT-YGWC-44	**Sampled by**	Perry Studebaker
Purge Start	15:20	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	16:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:20:00	00:00	200	51.02	5.99	0.05	1.89	7.85	25.20	151.62
15:25:00	05:00	200	52.72	6.14	0.00	0.54	8.21	22.70	37.38
15:30:00	10:00	200	53.18	6.23	0.00	0.35	8.15	22.40	12.68
15:35:00	15:00	200	53.79	5.77	471.51	0.91	0.38	20.20	72.97
15:40:00	20:00	200	54.25	5.76	470.67	0.47	0.28	20.00	90.81
15:45:00	25:00	110	54.25	5.78	472.76	0.30	0.29	21.20	98.32
15:50:00	30:00	110	54.25	5.78	470.95	0.21	0.22	20.50	105.17

Constituent Sampled	Container	Number	Preservative
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None

Comments: YAT-AP1-EB-1 sampled at 1630 after sampling this well

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Upgradient Wells

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	2/24/2025
Sampler:	David Prouty Jessica Ware
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-2I	2/24/2025	08:45:00	46.68	63.75	--
YGWA-3I	2/24/2025	08:51:00	52.34	59.05	--
YGWA-3D	2/24/2025	08:53:00	5.16	134.18	--
YGWA-1D	2/24/2025	08:55:00	50.35	128.85	--
YGWA-1I	2/24/2025	09:02:00	39.09	53.60	--
YGWA-4I	2/24/2025	09:12:00	24.32	48.81	--
YGWA-5D	2/24/2025	09:21:00	20.46	129.13	--
YGWA-5I	2/24/2025	09:23:00	19.97	58.94	--
YGWA-14S	2/24/2025	09:30:00	15.91	34.96	--
YGWA-30I	2/24/2025	09:39:00	42.97	59.48	--
YGWA-21I	2/24/2025	09:39:00	31.70	79.90	--
YGWA-20S	2/24/2025	09:56:00	11.42	29.52	--
YGWA-17S	2/24/2025	10:26:00	12.19	39.85	--
YGWA-18S	2/24/2025	10:31:00	21.32	39.97	--
YGWA-18I	2/24/2025	10:32:00	24.30	79.97	--
YGWA-47	2/24/2025	11:36:00	35.60	59.19	--
YGWA-40	2/24/2025	12:23:00	24.86	48.23	--
YGWA-39	2/24/2025	12:23:00	20.88	68.59	--

Groundwater Sampling Form

Updated : 2/25/2025 3:16:45 PM +00:00

Project Number	30113037	**Well ID**	YGWA-4I			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	38.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.26	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	24.55	**Gallons in Well**	3.99
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:48	**Well Volumes Purged**	0.35	**Sample ID**	YAT-YGWA-4I	**Sampled by**	Kim Lapszynski
Purge Start	09:10	**Gallons Purged**	1.39	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:45						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:10:00	00:00	150	24.26	6.57	128.74	1.25	10.47	11.20	172.76
9:15:00	05:00	150	25.18	5.91	149.73	0.59	2.47	14.70	178.37
9:20:00	10:00	150	25.27	5.91	150.72	0.63	1.94	14.70	176.39
9:25:00	15:00	150	25.36	5.91	151.69	0.40	1.91	14.90	172.78
9:30:00	20:00	150	25.46	5.93	152.71	0.38	1.61	15.10	170.61
9:35:00	25:00	150	25.63	5.94	152.81	0.44	1.57	15.30	169.64
9:40:00	30:00	150	25.75	5.96	152.88	0.60	1.50	15.30	167.57
9:45:00	35:00	150	25.83	5.98	152.22	0.31	1.56	15.40	166.76

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, SO4, F	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____
Condition of Well: _____
Well Completion: _____
Well Locked at Arrival: _____
Well Locked at Departure: _____
Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/25/2025 4:29:53 PM +00:00

Project Number	30113037	**Well ID**	YGWA-5I			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.64	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	19.92	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	39.02	**Gallons in Well**	6.34
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:57	**Well Volumes Purged**	0.13	**Sample ID**	YAT-YGWA-5I	**Sampled by**	Kim Lapszynski
Purge Start	10:35	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:55						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:35:00	00:00	150	19.92	6.51	94.61	2.68	9.57	13.80	143.43
10:40:00	05:00	150	20.04	5.76	87.62	1.32	6.00	16.60	154.48
10:45:00	10:00	150	20.17	5.76	87.52	0.74	5.88	16.60	155.81
10:50:00	15:00	150	20.22	5.77	87.88	1.76	5.80	16.60	157.24
10:55:00	20:00	150	20.23	5.77	88.91	0.52	5.81	16.70	157.96

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/25/2025 5:14:12 PM +00:00

Project Number	30143622	**Well ID**	YGWA-18I			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	61.0 degrees F and Clear. The wind is blowing NW at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.67	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.24	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	55.73	**Gallons in Well**	9.06
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:10	**Well Volumes Purged**	0.12	**Sample ID**	YAT-YGWA-18I	**Sampled by**	Jessica Ware
Purge Start	11:49	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:10						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:49:00	00:00	200	24.3	7.21	115.55	1.17	7.18	20.50	94.89
11:54:00	05:00	200	24.53	6.07	107.29	0.62	4.57	17.20	124.32
11:59:00	10:00	200	24.56	6.04	107.51	0.74	4.48	17.10	132.09
12:04:00	15:00	200	24.62	6.02	107.71	1.01	4.49	16.90	138.25
12:09:00	20:00	200	24.57	6.00	107.69	0.82	4.54	16.90	143.34

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/25/2025 5:14:13 PM +00:00

Project Number	30143622	**Well ID**	YGWA-18S			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.97	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.29	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	18.68	**Gallons in Well**	3.04
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:12	**Well Volumes Purged**	0.71	**Sample ID**	YAT-YGWA-18S	**Sampled by**	Jessica Ware
Purge Start	09:13	**Gallons Purged**	2.17	**Replicate/ Code No.**	YAT-UGRD-FD-2	**Color**	Clear
Purge End	10:11						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:13:00	00:00	150	21.35	5.52	61.35	6.60	7.31	13.50	199.36
9:18:00	05:00	150	22.59	4.51	58.37	6.46	4.12	15.10	188.65
9:23:00	10:00	150	22.66	5.94	57.58	3.11	3.63	15.60	184.06
9:28:00	15:00	150	22.75	6.39	58.54	2.27	3.54	15.70	183.32
9:33:00	20:00	150	22.83	7.11	57.33	1.68	3.49	15.90	184.13
9:38:00	25:00	150	22.87	6.04	58.07	1.43	3.51	15.90	191.31
9:43:00	30:00	150	22.88	5.95	56.93	1.70	3.54	16.00	182.39
9:48:00	34:44	150	22.84	5.03	56.87	1.71	3.64	16.00	187.26
9:53:00	39:44	150	22.79	5.21	56.70	1.55	3.72	16.10	186.81
9:58:00	44:44	150	22.75	5.18	56.71	1.65	3.77	16.10	189.68
10:03:00	49:44	150	22.7	5.68	56.88	1.29	3.82	16.10	188.55
10:08:00	54:44	150	22.69	6.26	56.63	1.73	3.86	16.20	190.86

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: pH sensor malfunctioning. Okay to sample from G. Gay. Tested purge water at time of sampling with pH strip: 5 SU

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Well Locked at Arrival: _____

Groundwater Sampling Form

Updated : 2/25/2025 5:47:01 PM +00:00

Project Number	30113037	**Well ID**	YGWA-5D			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	57.7 degrees F and Clear. The wind is blowing NW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.83	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	20.55	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	108.58	**Gallons in Well**	17.64
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:56	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YGWA-5D	**Sampled by**	Kim Lapszynski
Purge Start	11:34	**Gallons Purged**	1.32	**Replicate/ Code No.**	YAT-UGRD-FB-2	**Color**	Clear
Purge End	11:54						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:34:00	00:00	250	20.55	6.82	209.70	1.11	9.20	14.80	147.56
11:39:00	05:00	250	21.24	7.40	224.53	1.10	0.28	16.70	-176.23
11:44:00	10:00	250	21.25	7.40	221.86	1.27	0.16	16.70	-200.63
11:49:00	15:00	250	21.25	7.38	217.55	0.75	0.12	16.80	-214.72
11:54:00	20:00	250	21.25	7.40	215.44	0.34	0.10	16.80	-224.03

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, SO4, F	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Field Blank (YAT-UGRD-FB-2) collected at 1206.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/14/2025 2:32:41 PM -04:00

Project Number	30143623	**Well ID**	YGWA-14S			**Date**	02/25/2025
Project Location	AP-2		**Weather(°F)**	61.0 degrees F and Clear. The wind is blowing NW at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	24.66	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	16.17	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	18.79	**Gallons in Well**	3.05
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:00	**Well Volumes Purged**	0.35	**Sample ID**	YAT-YGWA-14S	**Sampled by**	Perry Studebaker
Purge Start	12:40	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:40:00	00:00	200	16.17	5.66	63.19	0.51	7.56	18.4	97.74
12:45:00	05:00	200	16.62	5.02	64.90	0.24	6.34	18.7	151.54
12:50:00	10:00	200	16.62	5.08	64.90	0.21	6.20	18.8	169.21
12:55:00	15:00	200	16.62	5.13	64.94	0.19	6.15	18.7	180.80
13:00:00	20:00	200	16.62	5.16	65.14	0.33	6.06	18.7	188.94

Constituent Sampled	Container	Number	Preservative
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
Alkalinity (SM2320B)	250 mL Plastic	1	None
Ap III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 3/14/2025 2:33:06 PM -04:00

Project Number	30143623	**Well ID**	YGWA-2I			**Date**	02/25/2025
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	53.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	47.03	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	16.72	**Gallons in Well**	2.72
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:25	**Well Volumes Purged**	1.40	**Sample ID**	YAT-YGWA-2I	**Sampled by**	Perry Studebaker
Purge Start	09:25	**Gallons Purged**	3.82	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:05						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:25:00	00:00	150	47.03	6.95	219.32	0.67	2.42	14.3	50.00
09:30:00	05:00	150	49.62	7.03	219.94	1.22	1.52	14.7	-23.43
09:35:00	10:00	150	50.62	6.97	218.95	0.52	1.26	14.6	-20.63
09:40:00	15:00	150	51.35	6.94	214.06	0.35	1.55	14.5	-15.71
09:45:00	20:00	150	52.33	6.96	209.69	0.37	2.10	14.6	-7.55
09:50:00	25:00	150	53.18	6.96	207.53	0.27	2.56	14.7	-0.50
09:55:00	30:00	150	53.88	6.99	206.21	0.30	2.95	14.8	1.77
10:00:00	35:00	150	54.58	7.00	205.95	0.35	3.29	15.0	2.38
10:05:00	40:00	110	54.85	7.02	205.53	0.38	3.48	14.8	3.71
10:10:00	45:00	110	55.07	7.01	205.81	0.50	3.56	15.1	2.38
10:15:00	50:00	110	55.28	7.03	206.07	0.42	3.61	15.3	-1.59
10:20:00	55:00	110	55.45	7.02	206.47	0.64	3.60	15.4	-0.85
10:25:00	00:00	110	55.63	7.01	210.22	0.43	3.39	15.6	-3.88
10:30:00	05:00	110	55.8	6.97	214.28	0.62	2.96	15.7	-3.16
10:35:00	10:00	110	55.98	6.97	216.37	0.45	2.64	15.8	-6.00
10:40:00	15:00	110	56.14	6.98	217.64	0.53	2.38	16.0	-6.78
10:45:00	20:00	110	56.28	6.98	218.16	0.65	2.07	16.6	-10.42
10:50:00	25:00	110	56.42	7.02	218.52	0.36	1.66	16.8	-12.35
10:55:00	30:00	110	56.56	7.01	218.17	0.28	1.31	17.4	-14.27
11:00:00	35:00	110	56.69	7.02	218.57	0.29	1.07	17.4	-17.36
11:05:00	40:00	110	56.82	7.04	219.35	0.42	0.89	17.8	-22.79
11:10:00	45:00	110	56.96	7.08	221.39	0.28	0.76	18.1	-35.25
11:15:00	50:00	110	57.1	7.11	223.41	0.32	0.64	18.2	-56.03
11:20:00	55:00	110	57.24	7.14	224.68	0.26	0.57	18.3	-76.95
11:22:00	56:48	110	57.3	7.14	225.04	0.26	0.56	18.0	-83.68

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Constituent Sampled	Container	Number	Preservative
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM2540C)	500 mL Plastic	1	None
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3

Comments: Purged well until stable(water level and DO took time to stabilize), then sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/25/2025 8:12:53 PM +00:00

Project Number	30113037	**Well ID**	YGWA-21I			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	61.0 degrees F and Clear. The wind is blowing NW at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	31.68	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	48.22	**Gallons in Well**	7.84
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:15	**Well Volumes Purged**	0.25	**Sample ID**	YGWA-21I	**Sampled by**	Kim Lapszynski
Purge Start	13:09	**Gallons Purged**	1.98	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:14						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:09:00	00:00	150	31.68	7.31	161.14	1.52	9.89	18.10	183.59
13:14:00	05:00	150	32.83	6.60	167.82	1.76	1.75	18.60	-19.59
13:19:00	10:00	150	33.84	6.62	166.36	3.76	0.55	18.40	-56.54
13:24:00	15:00	100	34.59	6.59	162.39	2.71	0.42	18.70	-61.71
13:29:00	20:00	100	35.27	6.56	157.17	1.49	0.36	18.70	-61.48
13:34:00	25:00	100	35.9	6.53	153.28	1.22	0.40	18.80	-57.99
13:39:00	30:00	100	36.37	6.51	151.25	1.15	0.40	19.40	-57.87
13:44:00	35:00	100	36.68	6.50	150.37	1.13	0.38	19.70	-59.35
13:49:00	40:00	100	36.97	6.51	151.62	1.18	0.40	19.60	-61.21
13:54:00	45:00	100	37.28	6.52	153.32	0.63	0.43	19.70	-62.14
13:59:00	50:00	100	37.51	6.52	153.52	0.86	0.41	19.70	-62.57
14:04:00	55:00	100	37.73	6.53	153.98	0.62	0.41	20.20	-64.41
14:09:00	00:00	100	37.89	6.54	155.07	0.66	0.42	20.30	-65.00
14:14:00	05:00	100	38.01	6.55	156.34	0.35	0.42	20.60	-65.02

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 3/14/2025 2:33:59 PM -04:00

Project Number	30143623	**Well ID**	YGWA-30I			**Date**	02/25/2025
Project Location	AP-2		**Weather(°F)**	69.1 degrees F and Clear. The wind is blowing N/NW at 11.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.18	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	43.23	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	16.25	**Gallons in Well**	2.64
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:55	**Well Volumes Purged**	0.40	**Sample ID**	YAT-YGWA-30I	**Sampled by**	Perry Studebaker
Purge Start	14:31	**Gallons Purged**	1.06	**Replicate/ Code No.**	YAT-UGRD-FB-1	**Color**	Clear
Purge End	15:15						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:31:00	00:00	200	43.24	6.14	49.61	0.59	8.20	19.3	172.05
14:36:00	05:00	200	43.24	5.33	46.24	0.20	7.21	19.1	188.94
14:41:00	10:00	200	43.24	5.37	45.05	0.18	7.08	19.1	186.70
14:46:00	15:00	200	43.24	5.40	44.98	0.31	7.05	19.0	187.73
14:51:00	20:00	200	43.24	5.45	44.59	0.20	7.03	19.0	187.02

Constituent Sampled	Container	Number	Preservative
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3

Comments: YAT-UGRD-FB-1 taken at 1535

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/25/2025 9:07:18 PM +00:00

Project Number	30143622	**Well ID**	YGWA-17S			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	61.0 degrees F and Clear. The wind is blowing NW at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	12.22	**Total Depth (ft-bmp)**	39.85	**Water Column(ft)**	27.63	**Gallons in Well**	4.49
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:05	**Well Volumes Purged**	0.24	**Sample ID**	YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	12:43	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:05						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:43:00	00:00	200	12.25	5.65	100.00	1.33	5.90	17.90	142.42
12:48:00	05:00	200	12.61	5.53	96.26	0.62	2.86	17.70	149.54
12:53:00	10:00	200	12.69	5.56	97.92	1.77	2.81	17.70	152.99
12:58:00	15:00	200	12.71	5.58	97.87	1.32	2.81	17.70	156.50
13:03:00	20:00	200	12.65	5.59	98.40	1.36	2.84	17.70	159.56

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/25/2025 9:07:19 PM +00:00

Project Number	30143622	**Well ID**	YGWA-40			**Date**	2/25/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	68.7 degrees F and Clear. The wind is blowing NW at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	37.73	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.74	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	23.49	**Gallons in Well**	3.82
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:21	**Well Volumes Purged**	0.28	**Sample ID**	YAT-YGWA-40	**Sampled by**	Jessica Ware
Purge Start	13:59	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:21						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:59:00	00:00	200	24.3	5.63	154.46	0.72	6.38	18.80	189.28
14:04:00	05:00	200	25.81	4.99	109.49	0.64	0.23	17.80	251.75
14:09:00	10:00	200	25.96	5.02	108.10	1.90	0.15	17.60	378.05
14:14:00	15:00	200	25.99	5.05	108.66	1.17	0.12	17.60	482.06
14:19:00	20:00	200	26.03	5.07	109.16	1.24	0.11	17.60	533.82

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/25/2025 9:07:20 PM +00:00

Project Number	30143622	**Well ID**	YGWA-39			**Date**	2/25/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	71.4 degrees F and Clear. The wind is blowing W at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	58.09	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.13	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	47.46	**Gallons in Well**	7.71
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:22	**Well Volumes Purged**	0.10	**Sample ID**	YAT-YGWA-39	**Sampled by**	Jessica Ware
Purge Start	14:59	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:22						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:59:00	00:00	150	21.44	6.62	359.64	0.58	8.13	19.80	197.65
15:04:00	05:00	150	21.56	5.82	396.04	0.62	0.34	18.90	32.11
15:09:00	10:00	150	21.68	5.82	397.05	0.85	0.14	18.80	24.73
15:14:00	15:00	150	21.72	5.82	395.76	0.45	0.12	18.90	31.58
15:19:00	20:00	150	21.7	5.81	392.07	0.37	0.12	18.80	35.68

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/25/2025 9:24:04 PM +00:00

Project Number	30113037	**Well ID**	YGWA-20S			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	70.0 degrees F and Clear. The wind is blowing W/SW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	19.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.42	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	18.10	**Gallons in Well**	2.94
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:48	**Well Volumes Purged**	0.27	**Sample ID**	YAT-YGWA-20S	**Sampled by**	Kim Lapszynski
Purge Start	15:26	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:26:00	00:00	150	11.42	6.18	70.17	2.62	8.09	20.60	174.07
15:31:00	05:00	150	12	6.03	60.82	5.35	8.16	17.20	167.16
15:36:00	10:00	150	12.01	6.02	60.86	4.72	8.03	17.00	172.70
15:41:00	15:00	150	12.01	6.05	61.02	3.52	8.01	16.80	176.18
15:46:00	20:00	150	12.02	6.07	61.03	2.45	7.97	16.80	180.55

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Collected EB (YAT-UGRD-EB-2) at 1610.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/14/2025 2:34:24 PM -04:00

Project Number	30143623	**Well ID**	YGWA-47			**Date**	02/25/2025
Project Location	AP-1		**Weather(°F)**	72.5 degrees F and Clear. The wind is blowing W at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.4	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	35.89	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	23.3	**Gallons in Well**	3.79
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:55	**Well Volumes Purged**	0.42	**Sample ID**	YAT-YGWA-47	**Sampled by**	Perry Studebaker
Purge Start	16:25	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:15						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:25:00	00:00	200	35.89	5.79	221.74	4.41	6.02	19.2	193.65
16:30:00	05:00	200	36.44	5.46	218.98	0.78	2.39	19.2	191.42
16:35:00	10:00	200	36.44	5.47	218.05	0.35	2.13	19.0	192.07
16:40:00	15:00	200	36.44	5.48	217.88	0.33	1.95	19.1	190.94
16:45:00	20:00	200	36.44	5.51	217.93	0.23	1.83	19.0	189.98
16:50:00	25:00	200	36.44	5.51	217.86	0.18	1.74	19.1	193.15
16:55:00	30:00	200	36.44	5.52	217.85	0.21	1.70	18.9	194.27

Constituent Sampled	Container	Number	Preservative
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 3/10/2025 1:28:52 PM +00:00

Project Number	30113037	**Well ID**	YGWA-3I			**Date**	2/25/2025
Project Location	AP-2		**Weather(°F)**	57.7 degrees F and Clear. The wind is blowing NW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.85	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	51.97	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	7.08	**Gallons in Well**	1.15
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:10	**Well Volumes Purged**	0.92	**Sample ID**	YAT-YGWA-3I	**Sampled by**	David Prouty
Purge Start	11:24	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:24:00	00:00	100	52.3	7.55	184.91	0.49	8.65	18.00	115.98
11:29:00	05:00	100	52.33	7.60	235.78	0.95	4.85	17.50	118.74
11:34:00	10:00	100	52.35	7.55	234.81	1.06	3.29	17.30	58.91
11:39:00	15:00	100	52.35	7.56	224.42	0.64	2.12	17.20	-42.86
11:44:00	20:00	100	52.35	7.56	214.31	0.78	1.47	17.00	-75.36
11:49:00	25:00	100	52.35	7.55	206.35	0.94	1.11	17.10	-89.68
11:54:00	30:00	100	52.35	7.55	199.93	1.11	0.89	17.10	-97.75
11:59:00	35:00	100	52.35	7.55	195.45	0.55	0.78	17.10	-102.50
12:04:00	40:00	100	52.35	7.55	190.89	0.38	0.68	17.20	-105.77

Constituent Sampled	Container	Number	Preservative
Alkalinity	250mL HDPE Plastic	1	None
Cl SO4 F	250mL HDPE Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 3/13/2025 3:04:11 PM -04:00

Project Number	30113037	**Well ID**	YGWA-1I			**Date**	02/25/2025
Project Location	AP-2		**Weather(°F)**	71.4 degrees F and Clear. The wind is blowing W at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	43.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	39.05	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	14.55	**Gallons in Well**	2.36
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	16:40	**Well Volumes Purged**	0.62	**Sample ID**	YAT-YGWA-1I	**Sampled by**	David Prouty
Purge Start	15:39	**Gallons Purged**	1.45	**Replicate/ Code No.**	YAT-UGRD-FD-1	**Color**	Clear
Purge End	17:27						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:39:00	00:00	100	39.82	6.49	61.55	0.63	5.76	17.1	27.30
15:44:00	05:00	100	42.27	6.41	72.97	0.65	2.21	17.3	7.33
15:49:00	10:00	100	42.44	6.17	69.50	0.48	2.33	17.2	35.34
15:54:00	15:00	100	42.55	6.09	66.19	0.42	2.96	17.2	58.06
15:59:00	20:00	100	42.64	6.05	62.05	0.33	2.99	17.1	72.12
16:04:00	25:00	100	42.78	5.97	58.50	0.56	2.68	17.2	87.19
16:09:00	30:00	100	42.81	5.98	55.21	0.49	2.59	17.3	94.45
16:14:00	35:00	100	42.87	5.99	51.97	0.40	3.02	17.2	100.64
16:19:00	40:00	100	42.92	6.02	49.07	0.33	3.68	17.1	104.29
16:24:00	45:00	100	42.95	6.00	47.18	0.32	4.21	17.0	110.98
16:29:00	50:00	100	42.97	6.01	46.04	0.50	4.51	17.1	114.74
16:34:00	55:00	100	42.99	6.02	44.98	0.46	4.69	17.1	118.14

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250mL HDPE Plastic	2	HNO3
Cl SO4 F	250mL HDPE Plastic	1	None
Alkalinity	250mL HDPE Plastic	1	None

Comments: Collected equipment blank YAT-UGRD-EB-1 at 17:30

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Well Locked at Arrival: _____

Groundwater Sampling Form

Updated : 3/10/2025 1:29:27 PM +00:00

Project Number	30113037	**Well ID**	YGWA-3D			**Date**	2/25/2025
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	83.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	34.72	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	99.46	**Gallons in Well**	16.16
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:30	**Well Volumes Purged**	0.05	**Sample ID**	YAT-YGWA-3D	**Sampled by**	David Prouty
Purge Start	09:51	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:51:00	00:00	100	34.75	6.85	218.03	1.55	2.73	17.50	5.17
9:56:00	05:00	100	34.77	7.03	200.52	0.96	0.82	16.20	-128.62
10:01:00	10:00	100	34.77	7.44	201.47	1.66	0.56	16.40	-163.84
10:06:00	15:00	100	34.77	7.60	201.51	2.00	0.48	16.40	-160.70
10:11:00	20:00	100	34.77	7.70	200.87	1.93	0.38	16.50	-156.62
10:16:00	25:00	100	34.77	7.75	200.95	1.09	0.31	16.60	-157.95
10:21:00	30:00	100	34.77	7.79	201.09	0.91	0.27	16.70	-161.74

Constituent Sampled	Container	Number	Preservative
Alkalinity	250mL HDPE Plastic	1	None
Cl SO4 F	250mL HDPE Plastic	1	None
Metals	250mL HDPE Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/10/2025 1:29:34 PM +00:00

Project Number	30113037	**Well ID**	YGWA-1D			**Date**	2/25/2025
Project Location	AP-2		**Weather(°F)**	68.7 degrees F and Clear. The wind is blowing NW at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	50.3	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	78.55	**Gallons in Well**	12.76
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	14:25	**Well Volumes Purged**	0.06	**Sample ID**	YAT-YGWA-1D	**Sampled by**	David Prouty
Purge Start	13:49	**Gallons Purged**	0.76	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:12						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:49:00	00:00	100	50.3	6.94	141.90	1.48	7.43	17.90	229.25
13:54:00	05:00	100	50.38	6.82	147.17	1.01	1.88	17.80	-85.10
13:59:00	10:00	100	50.38	6.99	162.82	0.79	0.99	17.80	-94.23
14:04:00	14:35	100	50.38	7.10	166.38	0.47	0.66	17.60	-97.70
14:11:00	21:47	100	50.38	7.18	164.28	0.36	0.51	17.50	-93.23
14:17:00	27:29	100	50.38	7.19	161.78	0.44	0.53	17.60	-83.00
14:18:00	28:37	100	50.38	7.18	161.30	0.44	0.54	17.70	-81.23

Constituent Sampled	Container	Number	Preservative
Alkalinity VOCs	250mL HDPE Plastic	1	None
Cl SO4 F	250mL HDPE Plastic	1	None
Metals	250mL HDPE Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

February 2025 Well Inspection Results
Upgradient Well Locations
Plant Yates

Well ID	Location/Identification				Protective Casing				
	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)	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
YGWA-3I	Y	Y	Y	Y	Y	Y	Y	Y	Y
YGWA-3D	Y	Y	Y	Y	Y	Y	Y	Y	Y
YGWA-4I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-5I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-5D	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-21I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-20S	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-17S	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-18I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-18S	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-40	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-2I	Y	Y	N	Y	Y	Y	N	Y	Y
YGWA-1D	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-1I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-30I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-47	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-39	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-14S	Y	Y	N	Y	Y	Y	Y	Y	Y

February 2025 Well Inspection Results
Upgradient Well Locations
Plant Yates

Well ID	Surface Pad			Internal Casing			Corrective actions as needed, by date:
	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	
YGWA-3I	Y	Y	Y	Y	Y	Y	Near logging activities.
YGWA-3D	Y	Y	Y	Y	Y	Y	Near logging activities.
YGWA-4I	Y	Y	Y	Y	Y	Y	
YGWA-5I	Y	Y	Y	Y	Y	Y	
YGWA-5D	Y	Y	Y	Y	Y	Y	
YGWA-21I	Y	Y	Y	Y	Y	Y	
YGWA-20S	Y	Y	Y	Y	Y	Y	
YGWA-17S	Y	Y	Y	Y	Y	Y	
YGWA-18I	Y	Y	Y	Y	Y	Y	
YGWA-18S	Y	Y	Y	Y	Y	Y	
YGWA-40	Y	Y	Y	Y	Y	Y	
YGWA-2I	Y	Y	Y	Y	Y	Y	
YGWA-1D	Y	Y	Y	Y	Y	Y	
YGWA-1I	Y	Y	Y	Y	Y	Y	
YGWA-30I	Y	Y	Y	Y	Y	Y	
YGWA-47	Y	Y	Y	Y	Y	Y	
YGWA-39	Y	Y	Y	Y	Y	Y	
YGWA-14S	Y	Y	Y	Y	Y	Y	

Appendix C

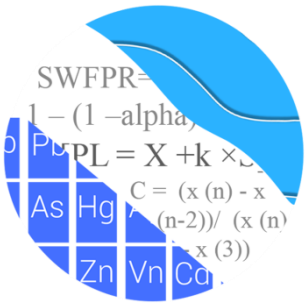
Statistical Analysis

August 2024

Appendix III Statistically Significant Increase Summary (August 2024)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-44, YGWC-45, YGWC-46A
Calcium	YGWC-45, YGWC-46A, YGWC-52
Chloride	YGWC-44, YGWC-46A
Sulfate	YGWC-45, YGWC-46A
Total Dissolved Solids	YGWC-44, YGWC-45, YGWC-46A

GROUNDWATER STATS CONSULTING



February 28, 2025

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Yates Ash Pond 1 (AP-1)
August 2024 Sample Event Analysis

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2024 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016 at most wells. Semi-annual sampling of the majority of constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47
  - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I
  - **Gypsum Landfill:** GWA-2

    - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
  - **Downgradient wells:** YGWC-44, YGWC-45, YGWC-46A, and YGWC-52

Note that downgradient well YGWC-52 was installed in June 2020, and baseline sampling began in August 2020. Well YGWC-46 was abandoned in June 2020, and baseline sampling began at downgradient well YGWC-46A in July 2020 to supplement existing data in downgradient well YGWC-46. In the current analysis, reported observations from the August 2024 sample event at all downgradient wells are compared to interwell prediction limits for Appendix III constituents. Data from downgradient wells YGWC-46 and YGWC-46A were combined and are plotted under well YGWC-46A.

Confidence intervals have been used to evaluate the combined data from wells YGWC-46 and YGWC-46A for the Appendix IV constituents. When a minimum of 8 samples were collected from new well YGWC-46A, the Mann-Whitney test of medians was used to evaluate whether the medians of both wells were statistically different for Appendix IV constituents. In cases where statistically significant differences were identified at the 99% confidence level, the historical record was truncated so that only data from new well YGWC-46A, which may be more representative of present-day groundwater quality, are evaluated with confidence interval comparisons to respective Groundwater Protection Standards (GWPS). This process is described below.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Senior Statistician and Founder of Groundwater Stats Consulting.

The 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

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. For interwell prediction and

tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. During previous events, elevated reporting limits occurred for beryllium, boron, cobalt, and lithium due to higher dilution factors at some wells; therefore, current reporting limits of 0.0005 mg/L, 0.04 mg/L, 0.005 mg/L, and 0.03 mg/L were substituted across all wells for each respective constituent.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. Although upgradient well GWA-2 was not sampled during the August 2024 event, data from this well are plotted on time series and box plots and used to construct interwell prediction limits and upper tolerance limits.

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, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Summary of Statistical Methods – Appendix III and IV Parameters

Based on the April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample

size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after screening for any new outliers. In some cases, the earlier portion of data is deselected 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.

Summary of Background Screening – Appendix III and IV Constituents - Conducted in April 2019

Outlier Analysis

For the original well network which consisted of upgradient well YGWA-47 and downgradient wells YGWC-44, YGWC-45, and YGWC-46, time series plots were used to identify suspected outliers or extreme values that would result in limits that are not representative of the current background data population. All other upgradient well data from neighboring units were previously screened for outliers with their respective reports. Suspected outliers at all wells for Appendix III and IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. Tukey's test results followed the screening.

Using the Tukey box plot method, outliers were identified. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

The reported non-detect value of 0.01 mg/L for cobalt at well YGWC-45 and the detected value of 6.3 s.u. for pH at well YGWA-47 were flagged as outliers because the measurements were higher during a single event compared to all other values at neighboring wells. The high non-detect value for cobalt does not provide any useful information. When any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends can be identified by visual inspection, a quantification of the trend and its statistical significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at upgradient well YGWA-47 and downgradient wells YGWC-44, YGWC-45, and YGWC-46 to identify whether statistically significant increasing or decreasing trends were present. The trend analyses showed a statistically significant increasing trend for lithium in well YGWC-46, but no adjustments to the record were required.

The reports were submitted with the background screening analysis, and all other upgradient wells at neighboring units were evaluated for trends with their respective reports. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. While no records required

adjustment at the time of the screening, if that is necessary in the future, a summary report will be provided to show the date ranges used in construction of the statistical limits.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) is typically used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach (interwell or intrawell). However, only one upgradient well was present at the time of the screening and the ANOVA requires a minimum of two wells. Therefore, the ANOVA was not utilized in the background screening.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Summary of Background Update Conducted in 2024

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. When the most recent value is identified as an outlier, values are not flagged in the database at this time as the measurements may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Using the Tukey's box plot method, several outliers were identified and both Tukey's test and visual screening confirmed values flagged from previous analyses (Figure C). An exception is for one detected value of 6.3 s.u. for pH at upgradient well YGWA-47 that was previously flagged as an outlier because it was high during a single event compared to all other values at neighboring wells. However, when compared among pooled upgradient well data, this value is no longer spurious and was unflagged during this analysis. Although not identified by Tukey's test due to the high percentage of non-detects, elevated concentrations for cobalt at upgradient well GWA-2 remain flagged to reduce variation in the record and maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective.

When any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends can be identified by visual inspection, a quantification of the trend and its statistical significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each upgradient well to identify statistically significant increasing or decreasing trends (Figure D). In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed several statistically significant decreasing and increasing trends for the Appendix III and IV parameters. However, the trends noted were relatively low in magnitude compared to average pooled upgradient concentrations and, therefore, no adjustments were made to the data sets at this time. If the observed decreasing or increasing trends persist over a longer time frame and influence resulting statistical limits, some records may need to be truncated.

Statistical Analysis of Appendix III Parameters – August 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. During the previous analysis, the data were not normally distributed when constructing the statistical limit for TDS; therefore, the highest value observed during the February 2024 event at upgradient well YGWA-5D was flagged for this constituent in order to maintain a statistical limit that is conservative from a regulatory perspective. As mentioned above, a previously flagged value for pH at upgradient well YGWA-47 was unflagged during this analysis. 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 pooled upgradient well data through August 2024 (Figure E). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result. 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 interwell prediction limits follows this letter. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-44, YGWC-45, and YGWC-46A
- Calcium: YGWC-45, YGWC-46A, and YGWC-52
- Chloride: YGWC-44 and YGWC-46A
- Sulfate: YGWC-45 and YGWC-46A
- TDS: YGWC-44, YGWC-45, and YGWC-46A

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 F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of spatial variability in groundwater quality that is unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. The following statistically significant trends were identified:

Increasing

- Boron: YGWA-5D, YGWA-39 (both upgradient), and YGWC-46A
- Calcium: GWA-2, YGWA-1D, YGWA-3I, YGWA-5I, YGWA-17S, YGWA-39 (all upgradient), and YGWC-46A
- Chloride: GWA-2, YGWA-17S, YGWA-18I, YGWA-20S, and YGWA-40 (all upgradient)
- Sulfate: GWA-2, YGWA-1D, YGWA-2I, YGWA-3D, YGWA-3I, and YGWA-5I (all upgradient)
- TDS: YGWA-21I and YGWA-39 (both upgradient)

Decreasing

- Boron: YGWA-40 (upgradient) and YGWC-44
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, YGWA-47 (all upgradient), and YGWC-52
- Chloride: YGWA-3D, YGWA-3I, YGWA-5D, and YGWA-47 (all upgradient)
- Sulfate: YGWA-5D, YGWA-18I, YGWA-39, YGWA-40, YGWA-47 (all upgradient), and YGWC-45
- TDS: YGWA-47 (upgradient)

Statistical Analysis of Appendix IV Parameters – August 2024

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding GWPS. Downgradient well/constituent pairs that have 100% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were substantially higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent natural spatial variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. No additional values were flagged as outliers and a summary of flagged outliers follows this report (Figure C).

Mann-Whitney Test of Medians

During previous analyses, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of observations sampled before July 2020 at abandoned downgradient well YGWC-46 to the medians of the 8 most recent observations sampled at well YGWC-46A, when available, for each Appendix IV parameter. When no variation was present between historical data and compliance samples, which was the case for beryllium, chromium, and selenium, the Mann-Whitney test was not performed. When the populations of the two groups were statistically significantly different at the 99% confidence level (such as barium, cobalt, and lithium), the historical data sampled from abandoned well YGWC-46 were truncated to only use data from well YGWC-46A to construct confidence intervals. The earlier data are shown on the time series as disconnected point and in a lighter font on the data pages. A list of the constituents using truncated records follows this report.

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2024 for Appendix IV constituents (Figure G). 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 H).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through August 2024 were constructed for each of the Appendix IV constituents in each downgradient well with 8 or more samples (Figure I). Beryllium and selenium were 100% non-detects at all downgradient wells.

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 of samples available.

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 of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

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. 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. Since no exceedances were identified, no trend tests were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

A Collins

Andrew T. Collins
Project Manager

Kristina Rayner

Kristina L. Rayner
Senior Statistician

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Date Ranges

Date: 11/6/2024 6:09 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Barium (mg/L)
YGWC-46A overall:7/6/2020-8/21/2024
Cobalt (mg/L)
YGWC-46A overall:7/6/2020-8/21/2024
Lithium (mg/L)
YGWC-46A overall:7/6/2020-8/21/2024

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient

Analysis Run 10/24/2024 3:31 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Antimony (mg/L)
YGWC-52

Beryllium (mg/L)
YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Cadmium (mg/L)
YGWC-44, YGWC-45, YGWC-52

Chromium (mg/L)
YGWC-46A

Lead (mg/L)
YGWC-44

Mercury (mg/L)
YGWC-52

Selenium (mg/L)
YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Thallium (mg/L)
YGWC-45, YGWC-52

Appendix III Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/5/2024, 7:50 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	YGWA-39 (bg)	0.01793	115	81	Yes	20	5	n/a	0.01	NP
Boron, total (mg/L)	YGWA-40 (bg)	-0.01202	-131	-81	Yes	20	0	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5D (bg)	0.0007069	99	98	Yes	23	26.09	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-47 (bg)	-0.8737	-132	-81	Yes	20	5	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-17S (bg)	0.1465	186	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-18S (bg)	-0.06725	-171	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-39 (bg)	2.49	121	81	Yes	20	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5D (bg)	-1.034	-107	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5I (bg)	0.06991	145	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1D (bg)	0.5198	135	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1I (bg)	-0.07033	-126	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3I (bg)	0.478	103	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-47 (bg)	-0.3342	-132	-81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-17S (bg)	0.914	205	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-18I (bg)	0.1003	131	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-20S (bg)	0.09204	163	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-40 (bg)	0.2393	106	81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-5D (bg)	-0.5475	-187	-98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-2 (bg)	0.2946	117	81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3D (bg)	-0.0326	-128	-98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3I (bg)	-0.0226	-105	-98	Yes	23	0	n/a	0.01	NP
Fluoride, total (mg/L)	YGWA-3D (bg)	-0.01072	-141	-124	Yes	27	3.704	n/a	0.01	NP
pH, Field (S.U.)	YGWA-18S (bg)	-0.0383	-183	-124	Yes	27	0	n/a	0.01	NP
pH, Field (S.U.)	YGWA-21I (bg)	0.08208	149	124	Yes	27	0	n/a	0.01	NP
pH, Field (S.U.)	YGWA-39 (bg)	-0.1431	-122	-98	Yes	23	0	n/a	0.01	NP
pH, Field (S.U.)	GWA-2 (bg)	-0.04422	-250	-184	Yes	35	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-47 (bg)	-10.68	-149	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-18I (bg)	-0.09033	-116	-98	Yes	23	21.74	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-39 (bg)	-2.451	-142	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-40 (bg)	-5.801	-141	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5D (bg)	-2.152	-197	-98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5I (bg)	0.0842	177	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-1D (bg)	0.8848	191	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-2I (bg)	1.44	132	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3D (bg)	0.2355	132	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3I (bg)	0.8717	133	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-47 (bg)	-9.336	-108	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-21I (bg)	9.422	118	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-39 (bg)	25.35	110	81	Yes	20	0	n/a	0.01	NP

Appendix IV Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/5/2024, 8:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	GWA-2 (bg)	0	-2.681	-1.96	Yes	41	87.8	n/a	0.05	NP
Barium (mg/L)	YGWA-17S (bg)	0.0005801	208	85	Yes	25	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18I (bg)	-0.001001	-236	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18S (bg)	-0.0006772	-137	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-20S (bg)	-0.0003692	-133	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-39 (bg)	0.0043	150	71	Yes	22	9.091	n/a	0.05	NP
Barium (mg/L)	YGWA-40 (bg)	-0.002482	-103	-71	Yes	22	0	n/a	0.05	NP
Barium (mg/L)	YGWA-4I (bg)	-0.0002834	-107	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-5D (bg)	-0.0001426	-92	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-2I (bg)	-0.0002032	-134	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-3D (bg)	-0.0005074	-250	-90	Yes	26	3.846	n/a	0.05	NP
Beryllium (mg/L)	YGWA-18S (bg)	-0.000006801	-91	-90	Yes	26	42.31	n/a	0.05	NP
Cobalt (mg/L)	YGWA-47 (bg)	-0.0007522	-144	-66	Yes	21	4.762	n/a	0.05	NP
Cobalt (mg/L)	YGWA-39 (bg)	-0.000669	-92	-71	Yes	22	40.91	n/a	0.05	NP
Cobalt (mg/L)	YGWA-30I (bg)	-0.003971	-310	-90	Yes	26	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-21I (bg)	0.1046	112	90	Yes	26	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-40 (bg)	-0.1233	-105	-71	Yes	22	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-5D (bg)	-0.1935	-108	-90	Yes	26	0	n/a	0.05	NP
Fluoride, total (mg/L)	YGWA-39 (bg)	0	-79	-76	Yes	23	65.22	n/a	0.05	NP
Fluoride, total (mg/L)	YGWA-3D (bg)	-0.01072	-141	-96	Yes	27	3.704	n/a	0.05	NP
Lithium (mg/L)	YGWA-47 (bg)	-0.000209	-119	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-18I (bg)	-0.000215	-154	-90	Yes	26	7.692	n/a	0.05	NP
Lithium (mg/L)	YGWA-39 (bg)	0.0009005	122	71	Yes	22	4.545	n/a	0.05	NP
Lithium (mg/L)	YGWA-1D (bg)	-0.0007084	-110	-90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3D (bg)	0.0005738	158	90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3I (bg)	0.001358	190	90	Yes	26	0	n/a	0.05	NP
Selenium (mg/L)	YGWA-17S (bg)	0	124	85	Yes	25	76	n/a	0.05	NP

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/5/2024, 8:20 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)	**YGWC-44**	**0.16**	**n/a**	**8/21/2024**	**0.49**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**YGWC-45**	**0.16**	**n/a**	**8/21/2024**	**0.31**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**YGWC-46A**	**0.16**	**n/a**	**8/21/2024**	**2.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Calcium, total (mg/L)	**YGWC-45**	**37**	**n/a**	**8/21/2024**	**58.3**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**YGWC-46A**	**37**	**n/a**	**8/21/2024**	**124**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**YGWC-52**	**37**	**n/a**	**8/22/2024**	**37.6**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**YGWC-44**	**12.7**	**n/a**	**8/21/2024**	**13.3**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**YGWC-46A**	**12.7**	**n/a**	**8/21/2024**	**39.6**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**YGWC-45**	**160**	**n/a**	**8/21/2024**	**166**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**YGWC-46A**	**160**	**n/a**	**8/21/2024**	**518**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**YGWC-44**	**319**	**n/a**	**8/21/2024**	**320**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**YGWC-45**	**319**	**n/a**	**8/21/2024**	**442**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**YGWC-46A**	**319**	**n/a**	**8/21/2024**	**1060**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/5/2024, 8:20 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)	**YGWC-44**	**0.16**	**n/a**	**8/21/2024**	**0.49**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**YGWC-45**	**0.16**	**n/a**	**8/21/2024**	**0.31**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**YGWC-46A**	**0.16**	**n/a**	**8/21/2024**	**2.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	YGWC-52	0.16	n/a	8/22/2024	0.04ND	No	425	n/a	n/a	52.71	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	YGWC-44	37	n/a	8/21/2024	32.8	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**YGWC-45**	**37**	**n/a**	**8/21/2024**	**58.3**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**YGWC-46A**	**37**	**n/a**	**8/21/2024**	**124**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**YGWC-52**	**37**	**n/a**	**8/22/2024**	**37.6**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**YGWC-44**	**12.7**	**n/a**	**8/21/2024**	**13.3**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	YGWC-45	12.7	n/a	8/21/2024	6.5	No	425	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**YGWC-46A**	**12.7**	**n/a**	**8/21/2024**	**39.6**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	YGWC-52	12.7	n/a	8/22/2024	3	No	425	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	YGWC-44	0.68	n/a	8/21/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-45	0.68	n/a	8/21/2024	0.077J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-46A	0.68	n/a	8/21/2024	0.1	No	494	n/a	n/a	62.96	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-52	0.68	n/a	8/22/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	YGWC-44	8.39	4.4	8/21/2024	5.8	No	505	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-45	8.39	4.4	8/21/2024	6.54	No	505	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-46A	8.39	4.4	8/21/2024	7.41	No	505	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-52	8.39	4.4	8/22/2024	6.01	No	505	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-44	160	n/a	8/21/2024	121	No	425	n/a	n/a	6.118	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**YGWC-45**	**160**	**n/a**	**8/21/2024**	**166**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**YGWC-46A**	**160**	**n/a**	**8/21/2024**	**518**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	YGWC-52	160	n/a	8/22/2024	87.1	No	425	n/a	n/a	6.118	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**YGWC-44**	**319**	**n/a**	**8/21/2024**	**320**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**YGWC-45**	**319**	**n/a**	**8/21/2024**	**442**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**YGWC-46A**	**319**	**n/a**	**8/21/2024**	**1060**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	YGWC-52	319	n/a	8/22/2024	232	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/24/2024, 3:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	YGWC-44	-0.01632	-92	-81	Yes	20	0	n/a	0.01	NP
Boron, total (mg/L)	YGWA-39 (bg)	0.01793	115	81	Yes	20	5	n/a	0.01	NP
Boron, total (mg/L)	YGWA-40 (bg)	-0.01202	-131	-81	Yes	20	0	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5D (bg)	0.0007069	99	98	Yes	23	26.09	n/a	0.01	NP
Boron, total (mg/L)	YGWC-46A	0.08703	118	105	Yes	24	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-47 (bg)	-0.8737	-132	-81	Yes	20	5	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-17S (bg)	0.1465	186	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-18S (bg)	-0.06725	-171	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-39 (bg)	2.49	121	81	Yes	20	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5D (bg)	-1.034	-107	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5I (bg)	0.06991	145	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1D (bg)	0.5198	135	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1I (bg)	-0.07033	-126	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3I (bg)	0.478	103	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWC-46A	4.007	148	105	Yes	24	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWC-52	-5.623	-48	-38	Yes	12	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-47 (bg)	-0.3342	-132	-81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-17S (bg)	0.914	205	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-18I (bg)	0.1003	131	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-20S (bg)	0.09204	163	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-40 (bg)	0.2393	106	81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-5D (bg)	-0.5475	-187	-98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-2 (bg)	0.2946	117	81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3D (bg)	-0.0326	-128	-98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3I (bg)	-0.0226	-105	-98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-47 (bg)	-10.68	-149	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWC-45	-4.01	-86	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-18I (bg)	-0.09033	-116	-98	Yes	23	21.74	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-39 (bg)	-2.451	-142	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-40 (bg)	-5.801	-141	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5D (bg)	-2.152	-197	-98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5I (bg)	0.0842	177	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-1D (bg)	0.8848	191	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-2I (bg)	1.44	132	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3D (bg)	0.2355	132	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3I (bg)	0.8717	133	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-47 (bg)	-9.336	-108	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-21I (bg)	9.422	118	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-39 (bg)	25.35	110	81	Yes	20	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/24/2024, 3:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	YGWA-47 (bg)	-0.0002753	-20	-81	No	20	10	n/a	0.01	NP
Boron, total (mg/L)	**YGWC-44**	**-0.01632**	**-92**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	YGWC-45	-0.0002647	-12	-81	No	20	0	n/a	0.01	NP
Boron, total (mg/L)	YGWA-17S (bg)	0.0006852	91	98	No	23	21.74	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18I (bg)	0	-6	-98	No	23	82.61	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18S (bg)	0.001019	79	98	No	23	30.43	n/a	0.01	NP
Boron, total (mg/L)	YGWA-20S (bg)	0	-1	-98	No	23	91.3	n/a	0.01	NP
Boron, total (mg/L)	YGWA-21I (bg)	0	-14	-98	No	23	60.87	n/a	0.01	NP
Boron, total (mg/L)	**YGWA-39 (bg)**	**0.01793**	**115**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**YGWA-40 (bg)**	**-0.01202**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	YGWA-4I (bg)	0	25	98	No	23	73.91	n/a	0.01	NP
Boron, total (mg/L)	**YGWA-5D (bg)**	**0.0007069**	**99**	**98**	**Yes**	**23**	**26.09**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	YGWA-5I (bg)	0	3	98	No	23	69.57	n/a	0.01	NP
Boron, total (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron, total (mg/L)	YGWA-14S (bg)	-0.0003528	-52	-98	No	23	8.696	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1D (bg)	0.001231	72	98	No	23	43.48	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1I (bg)	0	-15	-98	No	23	69.57	n/a	0.01	NP
Boron, total (mg/L)	YGWA-2I (bg)	0	10	98	No	23	82.61	n/a	0.01	NP
Boron, total (mg/L)	YGWA-30I (bg)	0	-7	-98	No	23	86.96	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3D (bg)	0	32	98	No	23	65.22	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3I (bg)	0	-9	-98	No	23	91.3	n/a	0.01	NP
Boron, total (mg/L)	**YGWC-46A**	**0.08703**	**118**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**YGWA-47 (bg)**	**-0.8737**	**-132**	**-81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWC-45	-0.03813	-6	-81	No	20	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-17S (bg)**	**0.1465**	**186**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWA-18I (bg)	0.07089	76	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-18S (bg)**	**-0.06725**	**-171**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWA-20S (bg)	0.0333	76	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-21I (bg)	0.4708	89	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-39 (bg)**	**2.49**	**121**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWA-40 (bg)	-0.194	-49	-81	No	20	5	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-4I (bg)	0.07686	35	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-5D (bg)**	**-1.034**	**-107**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**YGWA-5I (bg)**	**0.06991**	**145**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**GWA-2 (bg)**	**2.258**	**92**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWA-14S (bg)	0.0116	52	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-1D (bg)**	**0.5198**	**135**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**YGWA-1I (bg)**	**-0.07033**	**-126**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWA-2I (bg)	0.2349	40	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-30I (bg)	0.02573	95	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3D (bg)	0.2967	79	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-3I (bg)**	**0.478**	**103**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**YGWC-46A**	**4.007**	**148**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**YGWC-52**	**-5.623**	**-48**	**-38**	**Yes**	**12**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**YGWA-47 (bg)**	**-0.3342**	**-132**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWC-44	0.06062	37	81	No	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	**YGWA-17S (bg)**	**0.914**	**205**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**YGWA-18I (bg)**	**0.1003**	**131**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWA-18S (bg)	0.09349	79	98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	**YGWA-20S (bg)**	**0.09204**	**163**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWA-21I (bg)	-0.05993	-61	-98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-39 (bg)	0.4784	81	81	No	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	**YGWA-40 (bg)**	**0.2393**	**106**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWA-4I (bg)	0.08971	97	98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	**YGWA-5D (bg)**	**-0.5475**	**-187**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/24/2024, 3:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Chloride, Total (mg/L)	YGWA-5I (bg)	0.02938	38	98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWA-14S (bg)	0.08864	65	98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1D (bg)	0	-52	-98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1I (bg)	-0.01344	-54	-98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-2I (bg)	-0.01855	-67	-98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-30I (bg)	-0.02934	-82	-98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	**YGWA-3D (bg)**	**-0.0326**	**-128**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**YGWA-3I (bg)**	**-0.0226**	**-105**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWC-46A	0.4437	31	105	No	24	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-47 (bg)**	**-10.68**	**-149**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**YGWC-45**	**-4.01**	**-86**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-17S (bg)	-0.02522	-31	-98	No	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-18I (bg)**	**-0.09033**	**-116**	**-98**	**Yes**	**23**	**21.74**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-18S (bg)	-0.1025	-92	-98	No	23	8.696	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-20S (bg)	0	66	98	No	23	73.91	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-21I (bg)	-0.1633	-78	-98	No	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-39 (bg)**	**-2.451**	**-142**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**YGWA-40 (bg)**	**-5.801**	**-141**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-4I (bg)	0.04104	35	98	No	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-5D (bg)**	**-2.152**	**-197**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**YGWA-5I (bg)**	**0.0842**	**177**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**GWA-2 (bg)**	**9.755**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-14S (bg)	0	4	98	No	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-1D (bg)**	**0.8848**	**191**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-1I (bg)	-0.0608	-23	-98	No	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-2I (bg)**	**1.44**	**132**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-30I (bg)	-0.05021	-71	-98	No	23	8.696	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-3D (bg)**	**0.2355**	**132**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**YGWA-3I (bg)**	**0.8717**	**133**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWC-46A	-17.44	-71	-105	No	24	4.167	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**YGWA-47 (bg)**	**-9.336**	**-108**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	YGWC-44	-2.41	-31	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-45	1.317	22	81	No	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-17S (bg)	1.977	61	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18I (bg)	0	0	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18S (bg)	1.351	37	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-20S (bg)	3.147	79	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**YGWA-21I (bg)**	**9.422**	**118**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**YGWA-39 (bg)**	**25.35**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	YGWA-40 (bg)	-4.535	-52	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-4I (bg)	2.511	47	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-5D (bg)	-6.667	-55	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-5I (bg)	0.3453	16	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GWA-2 (bg)	12.15	73	81	No	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-14S (bg)	1.387	58	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1D (bg)	3.259	87	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1I (bg)	0.5267	11	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-2I (bg)	0.4303	17	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-30I (bg)	1.995	62	98	No	23	8.696	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3D (bg)	3.614	60	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3I (bg)	3.381	54	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-46A	-4.791	-7	-105	No	24	0	n/a	0.01	NP

Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/24/2024, 3:29 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	447	n/a	n/a	88.14	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	495	n/a	n/a	75.35	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	495	n/a	n/a	2.222	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	479	n/a	n/a	80.17	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	479	n/a	n/a	94.99	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	447	n/a	n/a	82.33	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	489	n/a	n/a	68.92	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	474	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	0.68	494	n/a	n/a	62.96	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	449	n/a	n/a	87.75	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	474	n/a	n/a	27.43	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	403	n/a	n/a	89.58	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	438	n/a	n/a	61.19	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	477	n/a	n/a	92.87	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	413	n/a	n/a	97.58	n/a	n/a	NaN	NP Inter(NDs)

YATES ASH POND 1 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/6/2024, 6:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-44	0.003	0.0023	0.006	No	19	0.002963	0.0001606	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-45	0.003	0.0017	0.006	No	19	0.002932	0.0002982	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-46A	0.003	0.00029	0.006	No	22	0.002877	0.0005778	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-44	0.005	0.00097	0.01	No	21	0.003906	0.001839	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-45	0.005	0.0028	0.01	No	21	0.004072	0.001754	76.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-46A	0.005	0.001	0.01	No	24	0.002688	0.001878	37.5	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-52	0.005	0.0044	0.01	No	12	0.00495	0.0001732	91.67	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-44	0.1076	0.08756	2	No	21	0.09757	0.01815	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-45	0.06668	0.05499	2	No	21	0.06083	0.01059	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-46A	0.04624	0.04069	2	No	13	0.04346	0.003733	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-52	0.01979	0.01754	2	No	12	0.01867	0.001435	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-46A	0.0005	0.00012	0.005	No	21	0.0004448	0.0001387	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-44	0.005	0.0021	0.1	No	19	0.004847	0.0006653	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-45	0.0061	0.0006	0.1	No	19	0.004594	0.001433	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-52	0.005	0.00086	0.1	No	12	0.003402	0.002002	58.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-44	0.003085	0.001505	0.035	No	21	0.002731	0.00247	4.762	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-45	0.0007951	0.0006149	0.035	No	20	0.000705	0.0001587	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-46A	0.002142	0.0008178	0.035	No	13	0.001562	0.00112	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	YGWC-52	0.001775	0.0008531	0.035	No	12	0.001314	0.0005876	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-44	0.8506	0.3014	6.92	No	21	0.6502	0.5817	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-45	1.429	0.9673	6.92	No	21	1.198	0.4185	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-46A	1.752	1.184	6.92	No	24	1.468	0.5566	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-52	0.862	0.268	6.92	No	11	0.6055	0.2913	0	None	No	0.006	NP (normality)
Fluoride, total (mg/L)	YGWC-44	0.1	0.07	4	No	22	0.09305	0.01865	77.27	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	YGWC-45	0.1541	0.07845	4	No	22	0.1825	0.1548	18.18	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	YGWC-46A	0.17	0.11	4	No	25	0.1531	0.09538	20	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	YGWC-52	0.1	0.059	4	No	12	0.08967	0.01879	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-45	0.001	0.0001	0.015	No	19	0.0009526	0.0002065	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-46A	0.001	0.000044	0.015	No	22	0.0009565	0.0002038	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-52	0.001	0.000064	0.015	No	12	0.0006919	0.0004551	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-44	0.01337	0.0124	0.04	No	21	0.01289	0.0008794	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-45	0.01356	0.01186	0.04	No	21	0.01277	0.001623	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	YGWC-46A	0.01357	0.0115	0.04	No	13	0.01254	0.001391	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-52	0.004429	0.003688	0.04	No	12	0.004058	0.0004719	0	None	No	0.01	Param.
Mercury (mg/L)	YGWC-44	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-45	0.0002	0.000071	0.002	No	17	0.0001924	0.00003129	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-46A	0.0002	0.00007	0.002	No	19	0.0001932	0.00002982	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-44	0.01	0.0005	0.1	No	21	0.009548	0.002073	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-45	0.0018	0.0011	0.1	No	21	0.001845	0.00136	14.29	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-46A	0.003236	0.002014	0.1	No	24	0.002625	0.001198	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-52	0.01	0.00083	0.1	No	12	0.009236	0.002647	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-44	0.001	0.00008	0.002	No	19	0.0009516	0.0002111	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-46A	0.001	0.000073	0.002	No	21	0.0009559	0.0002023	95.24	None	No	0.01	NP (NDs)

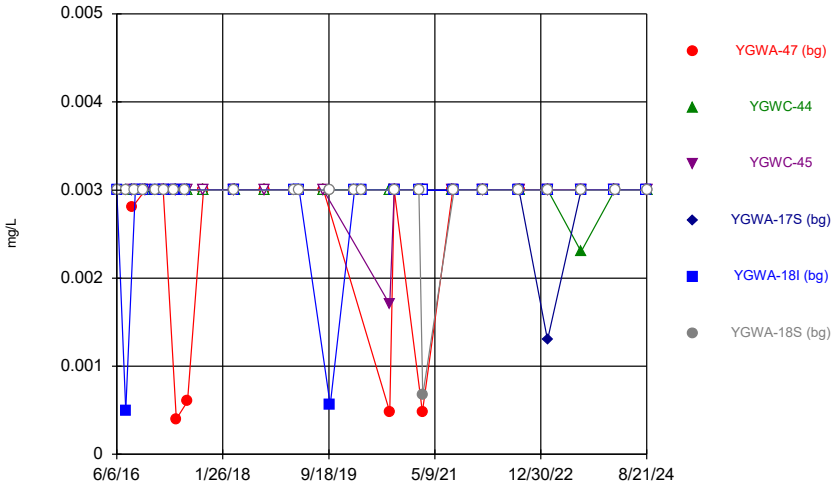
Table of Contents

Figure A. Time Series	26
Figure B. Box Plots	219
Figure C. Tukey's Outlier Test & Outlier Summary	241
Figure D. Appendix III & IV Upgradient Wells Trend Tests	251
Figure E. Appendix III Interwell Prediction Limits	272
Figure F. Appendix III Trend Tests	346
Figure G. Upper Tolerance Limits	377
Figure H. Groundwater Protection Standards	398
Figure I. Confidence Intervals	400

FIGURE A.

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

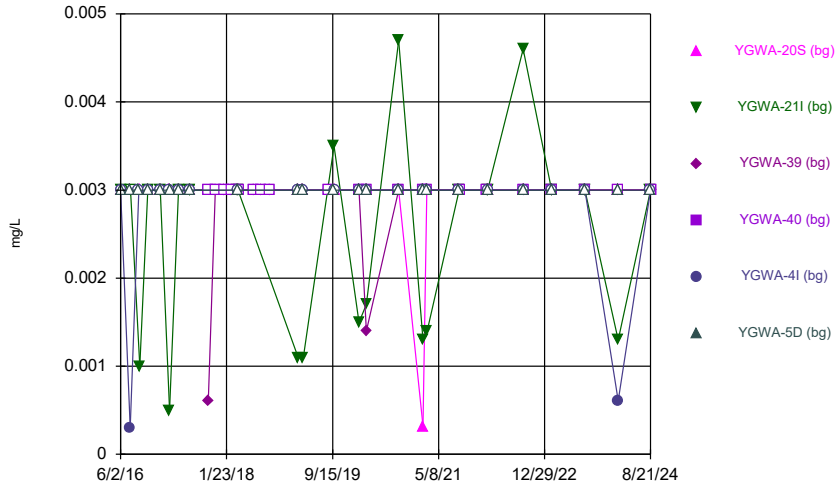
Time Series



Constituent: Antimony Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

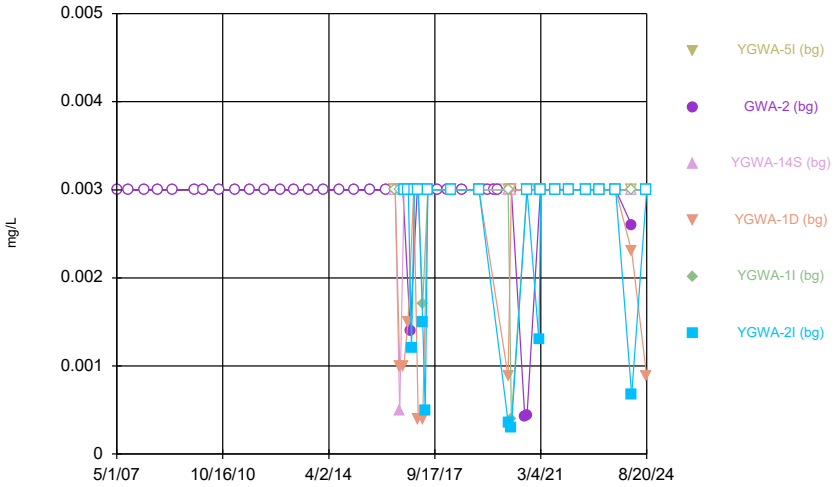
Time Series



Constituent: Antimony Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

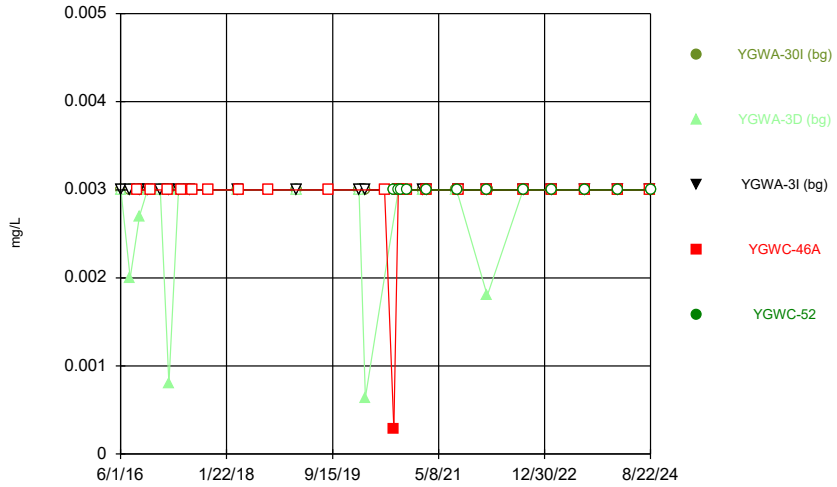
Time Series



Constituent: Antimony Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

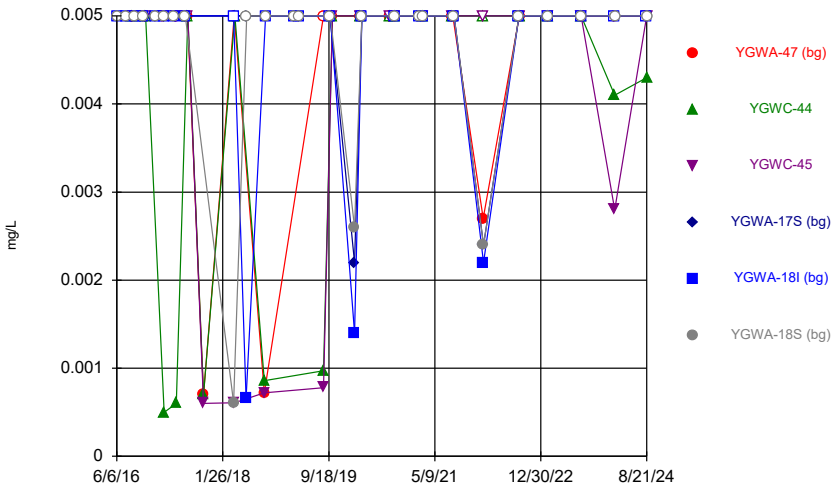
Time Series



Constituent: Antimony Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

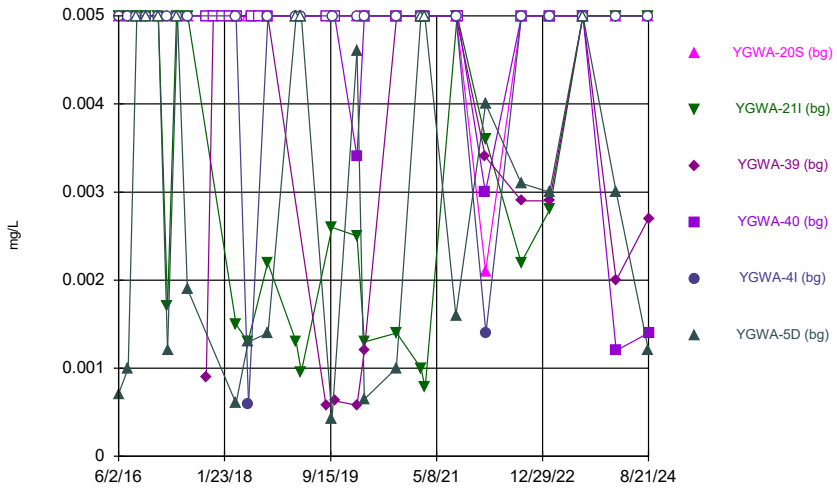
Time Series



Constituent: Arsenic Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

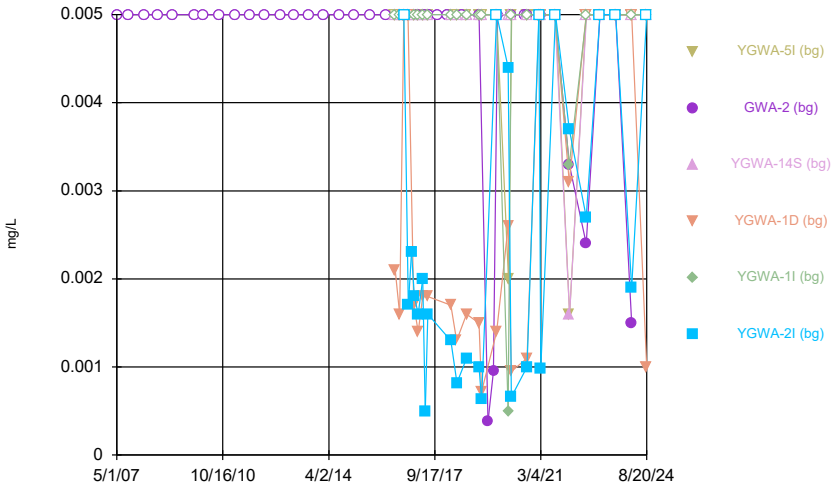
Time Series



Constituent: Arsenic Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

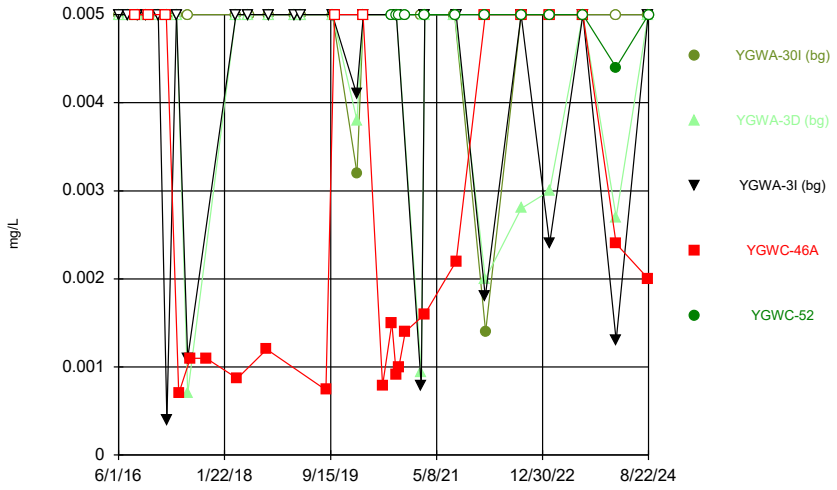
Time Series



Constituent: Arsenic Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

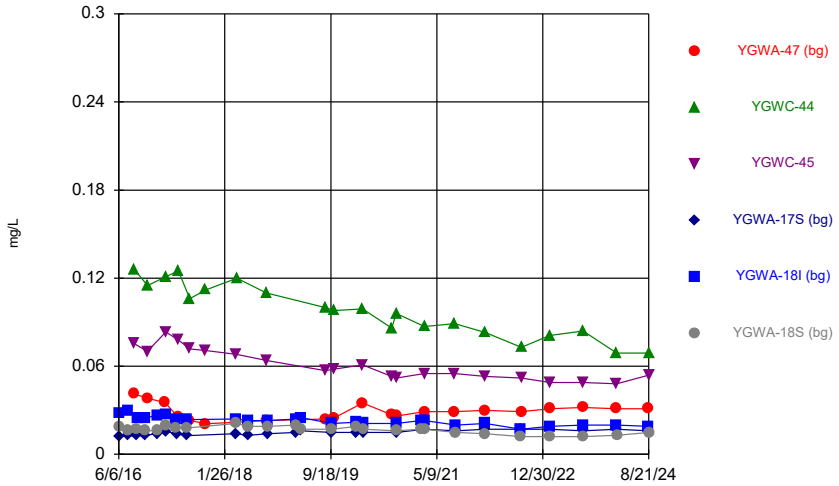
Time Series



Constituent: Arsenic Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



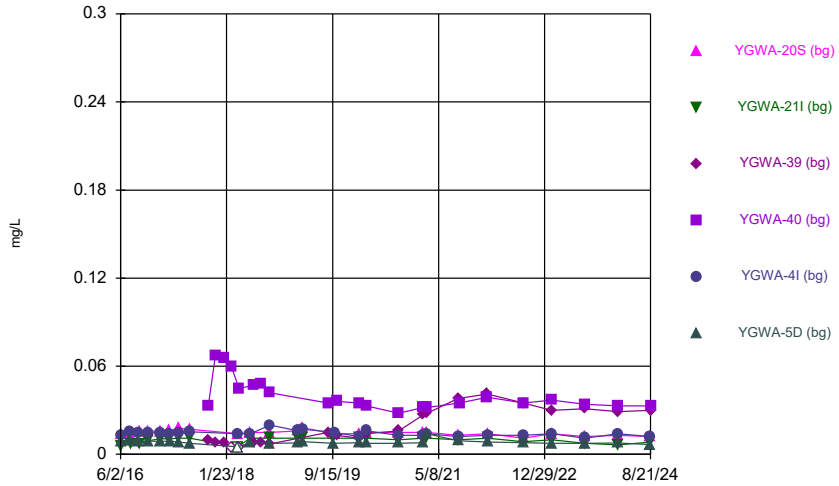
Constituent: Barium Analysis Run 11/6/2024 6:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



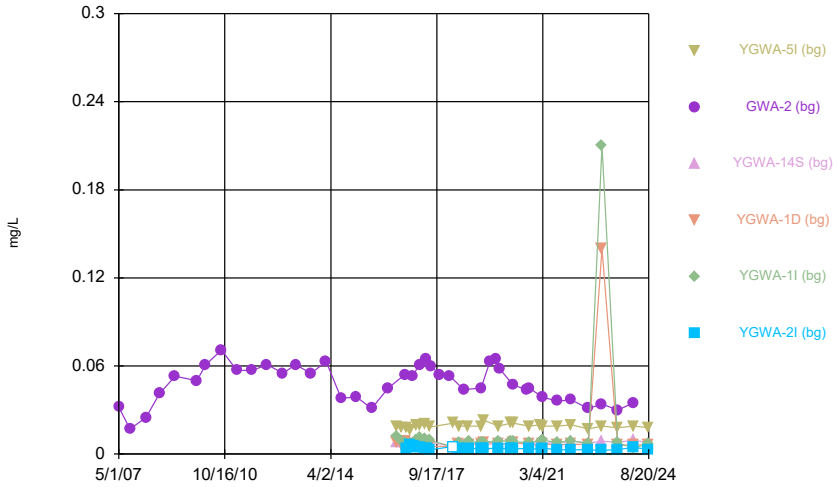
Constituent: Barium Analysis Run 11/6/2024 6:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



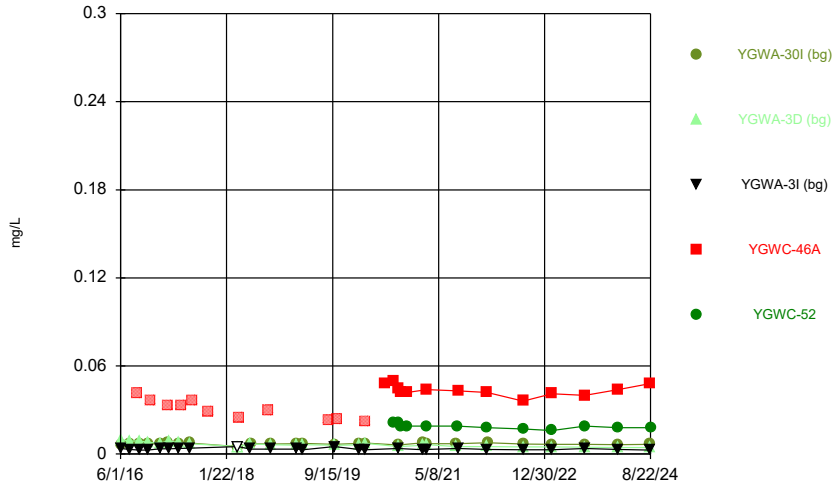
Constituent: Barium Analysis Run 11/6/2024 6:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

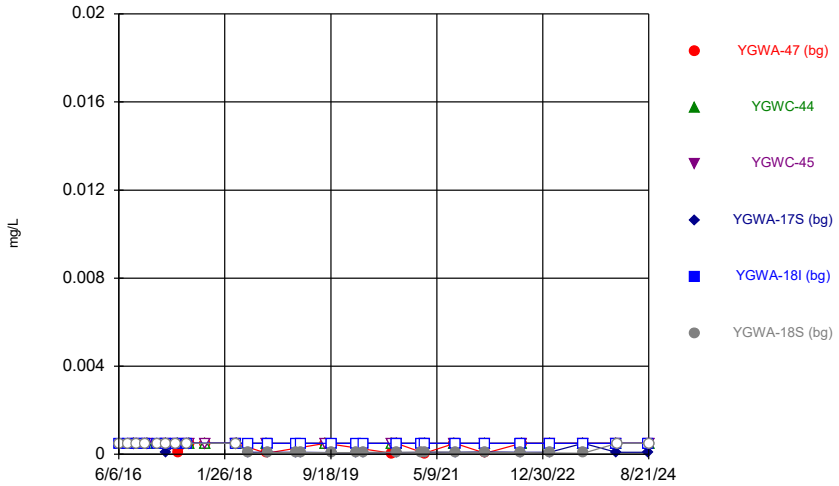


Constituent: Barium Analysis Run 11/6/2024 6:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

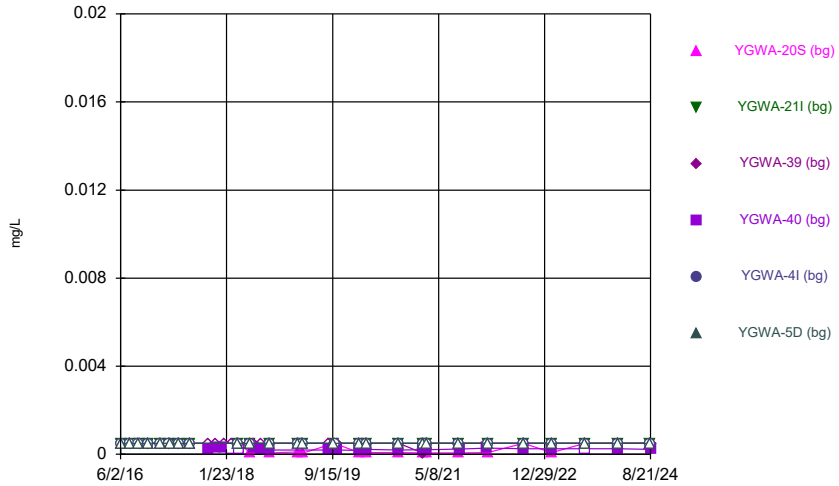
Time Series



Constituent: Beryllium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

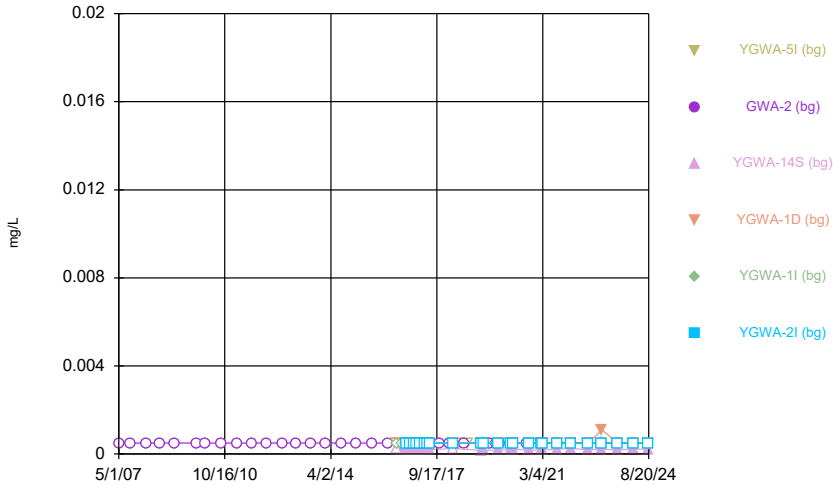
Time Series



Constituent: Beryllium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

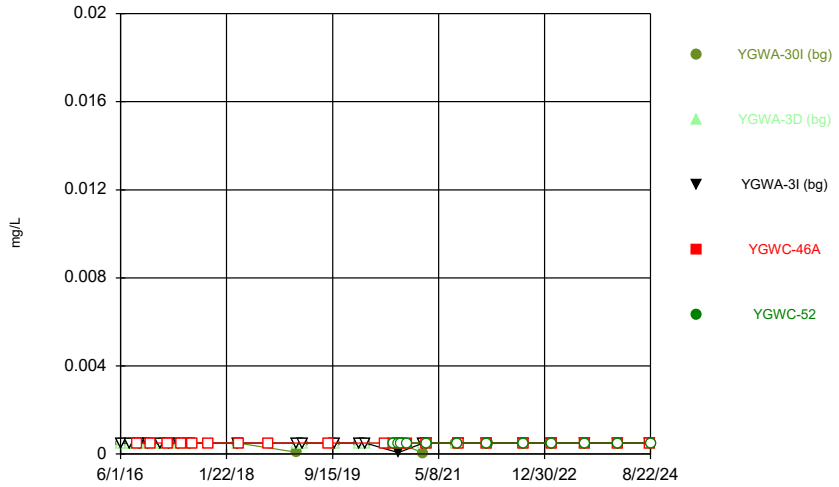
Time Series



Constituent: Beryllium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

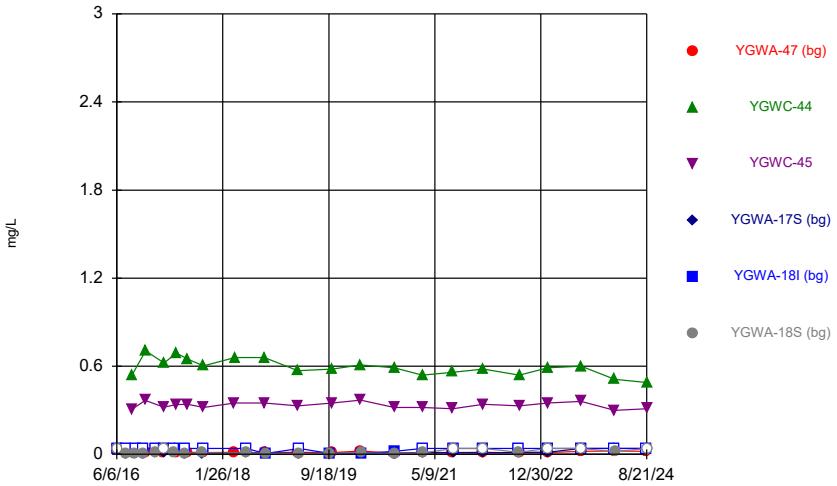
Time Series



Constituent: Beryllium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

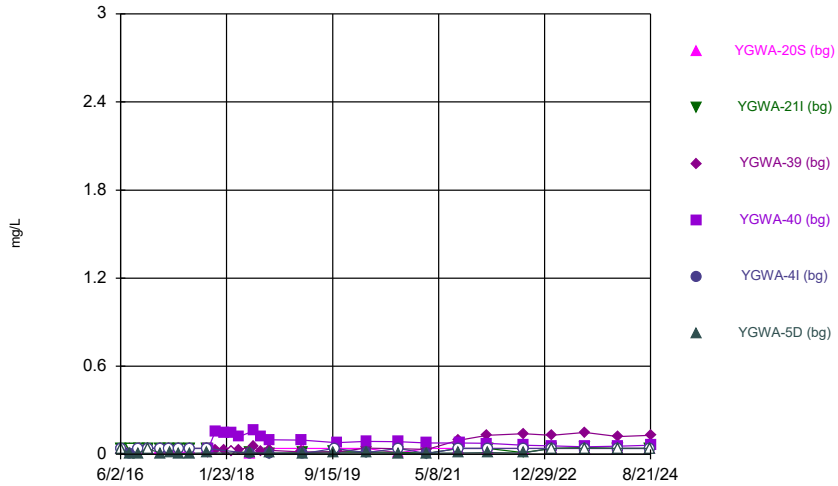
Time Series



Constituent: Boron, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

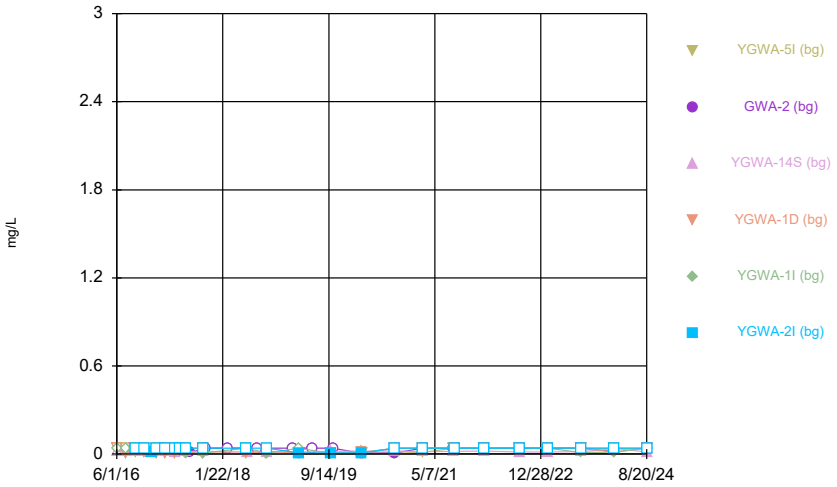
Time Series



Constituent: Boron, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

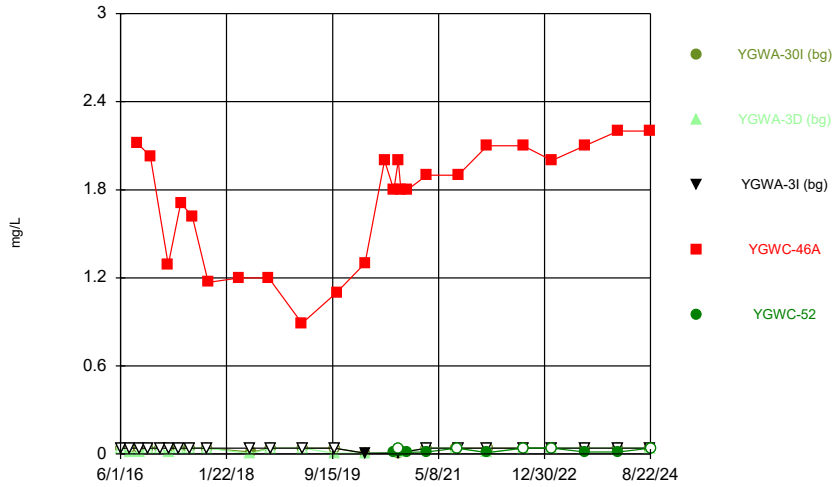
Time Series



Constituent: Boron, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

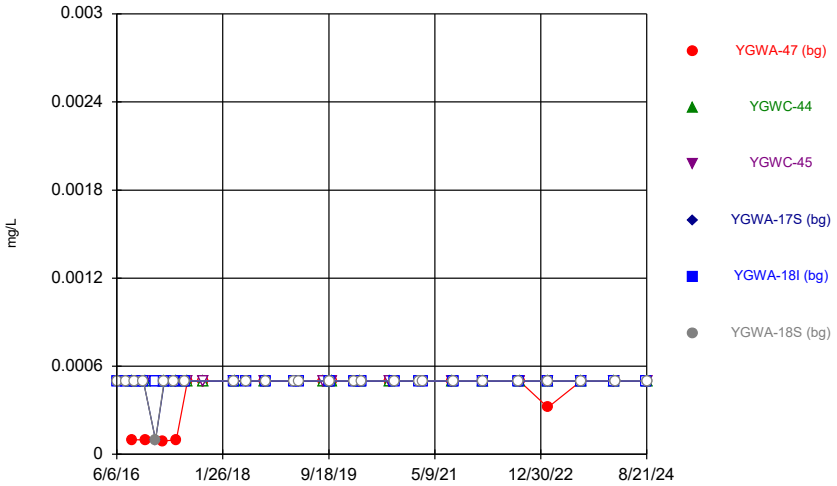
Time Series



Constituent: Boron, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

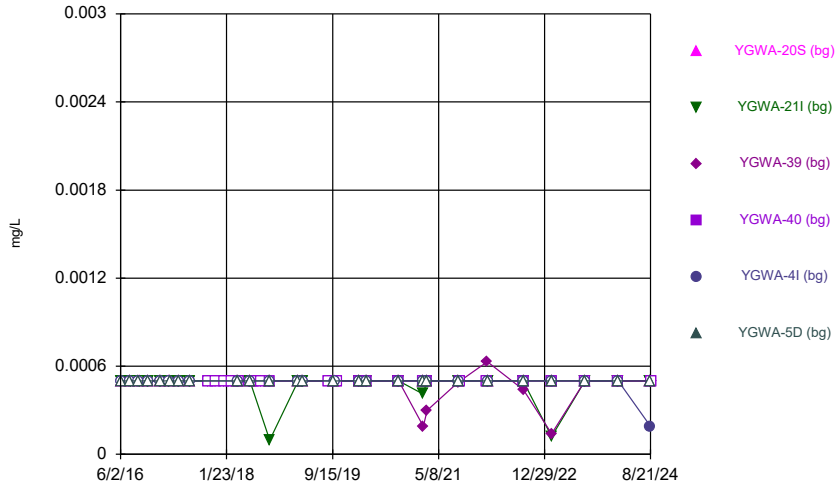
Time Series



Constituent: Cadmium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

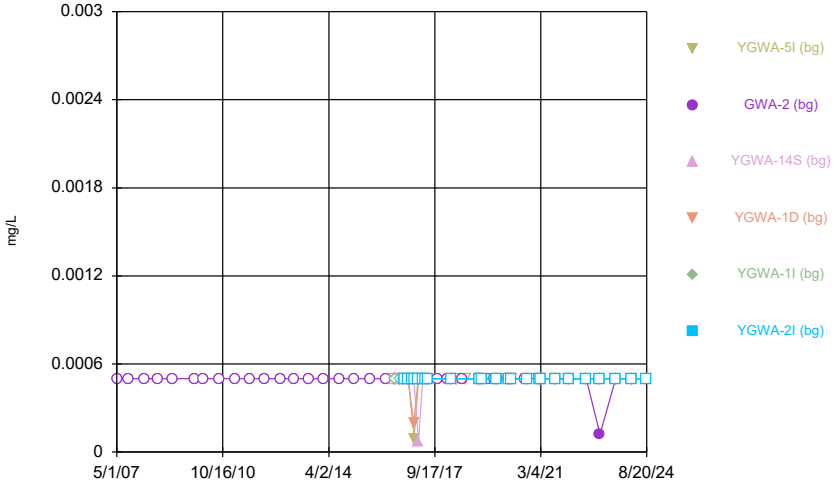
Time Series



Constituent: Cadmium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

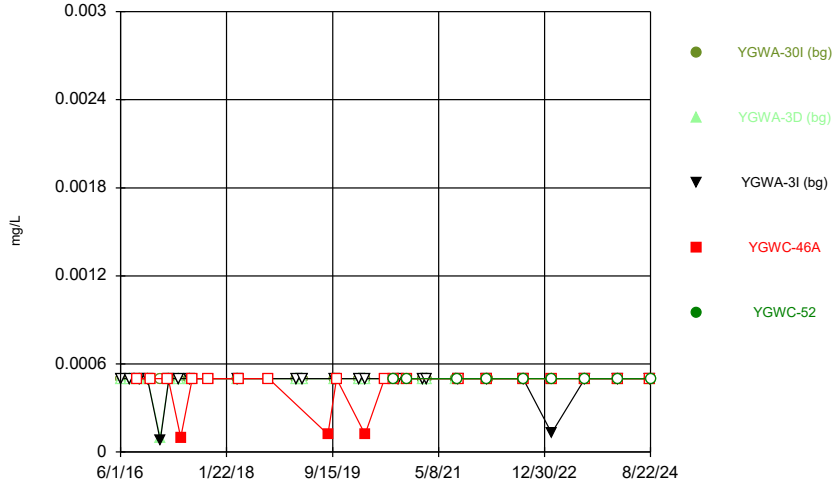
Time Series



Constituent: Cadmium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

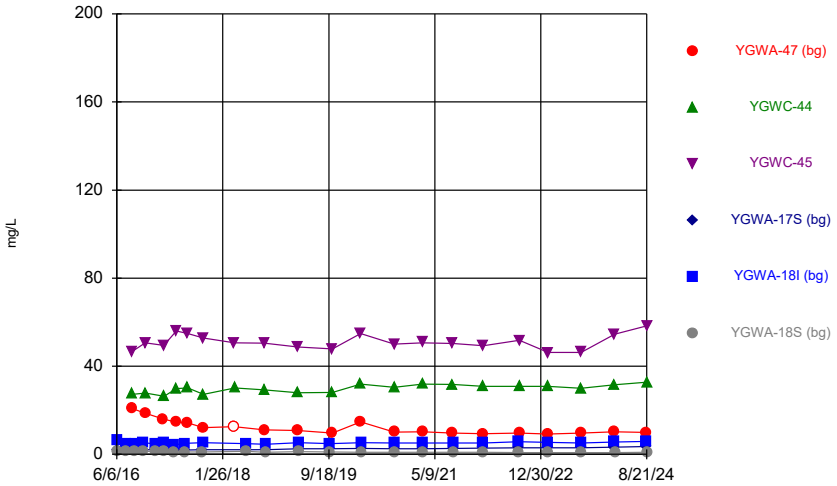
Time Series



Constituent: Cadmium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

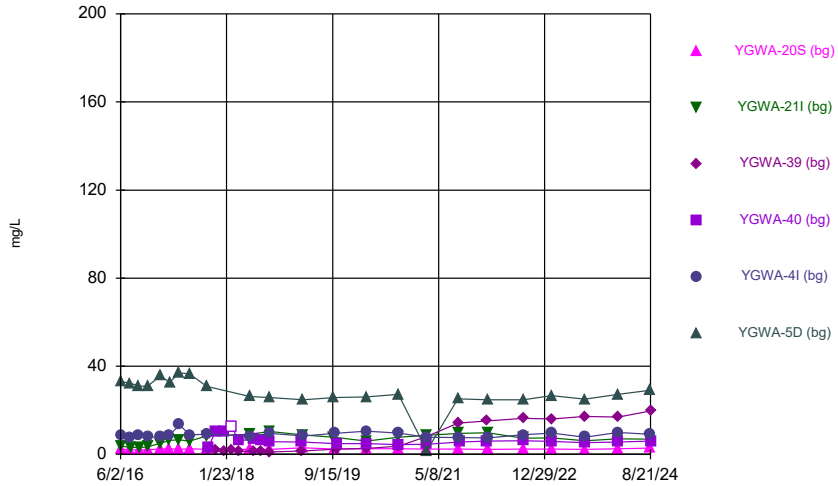
Time Series



Constituent: Calcium, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

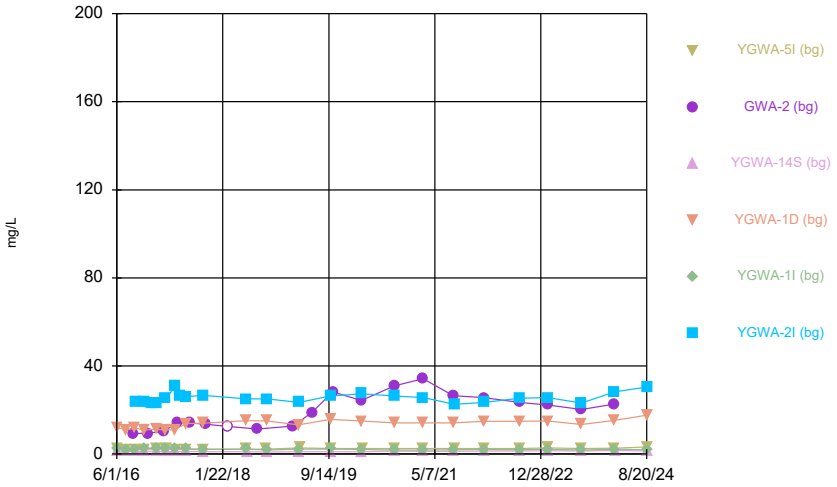
Time Series



Constituent: Calcium, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

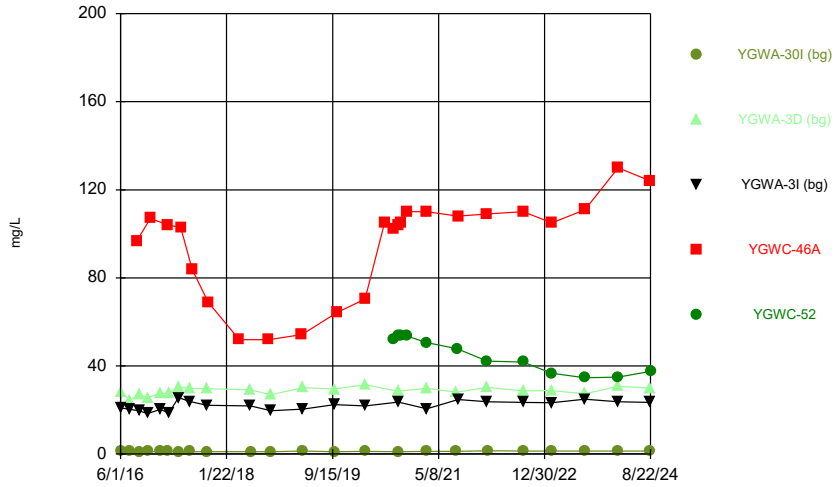
Time Series



Constituent: Calcium, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

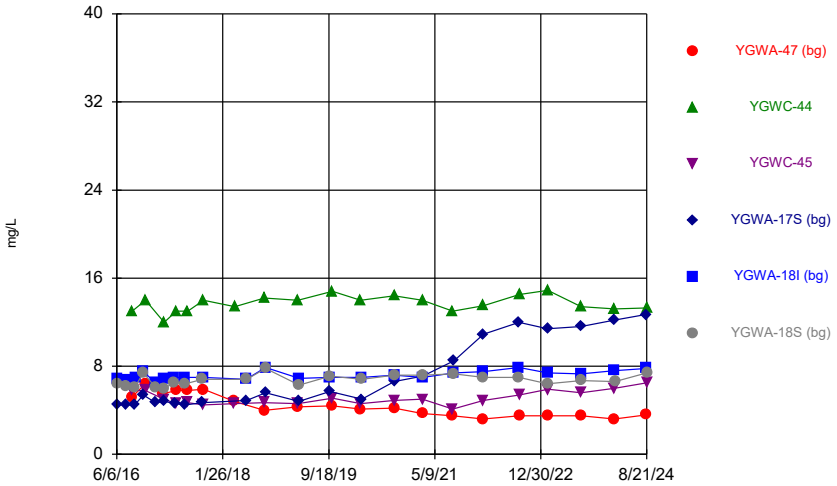
Time Series



Constituent: Calcium, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

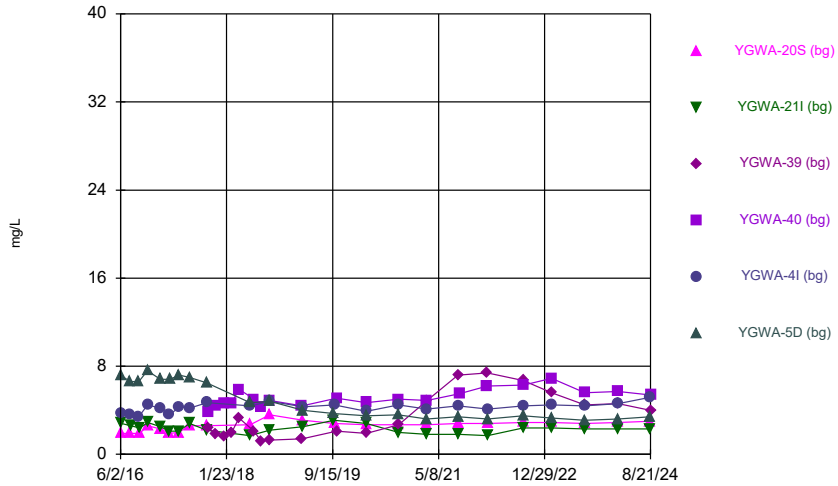
Time Series



Constituent: Chloride, Total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

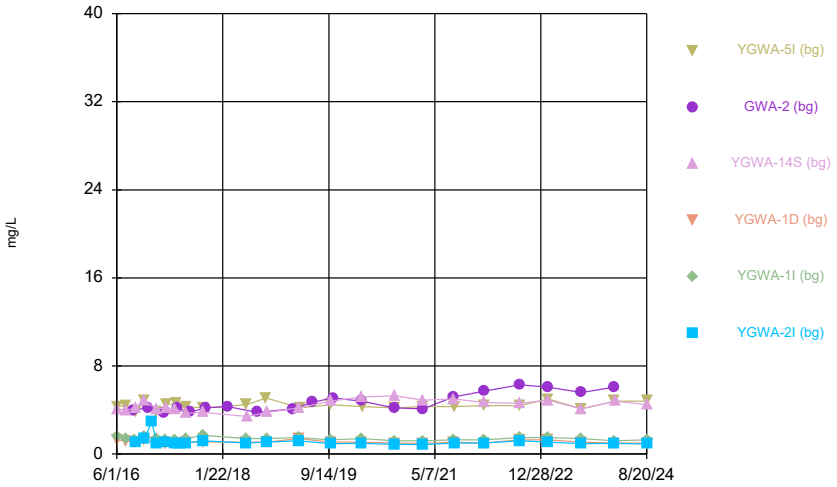
Time Series



Constituent: Chloride, Total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

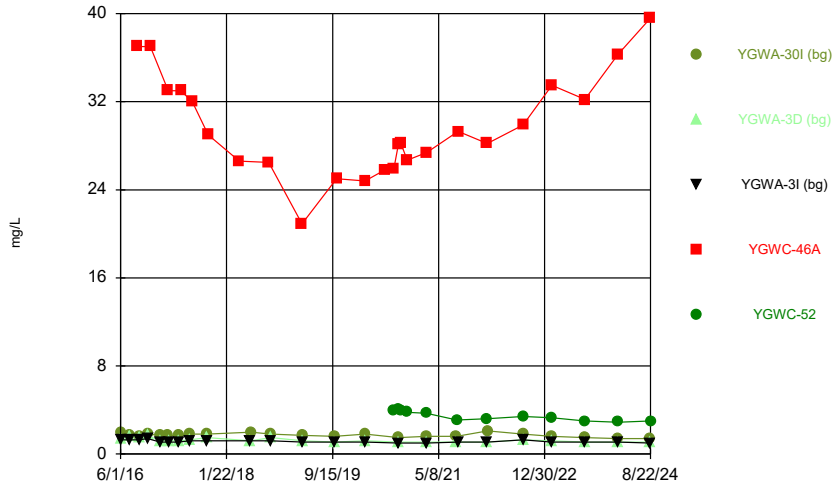
Time Series



Constituent: Chloride, Total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

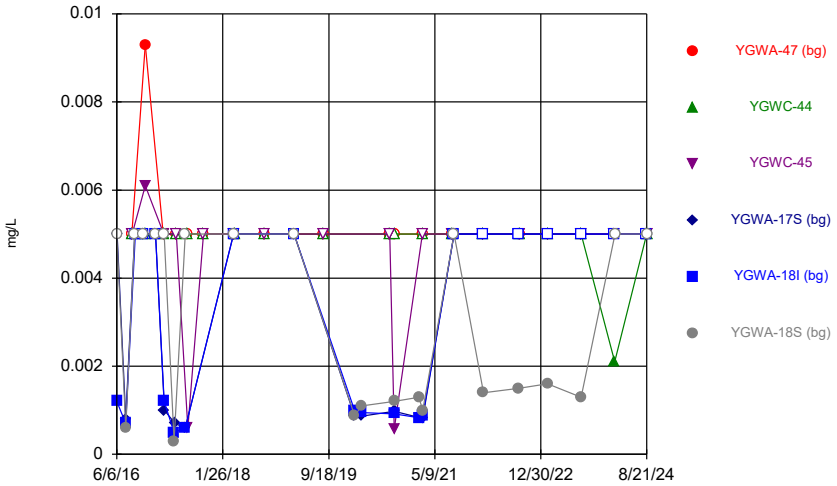
Time Series



Constituent: Chloride, Total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

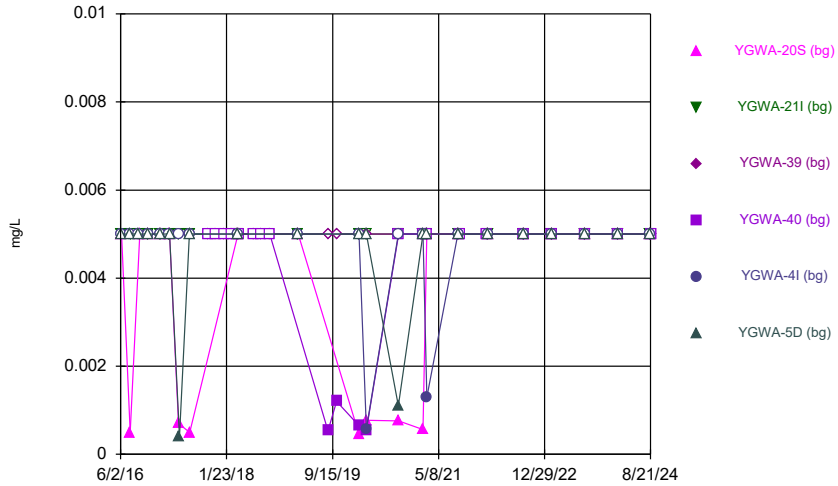
Time Series



Constituent: Chromium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

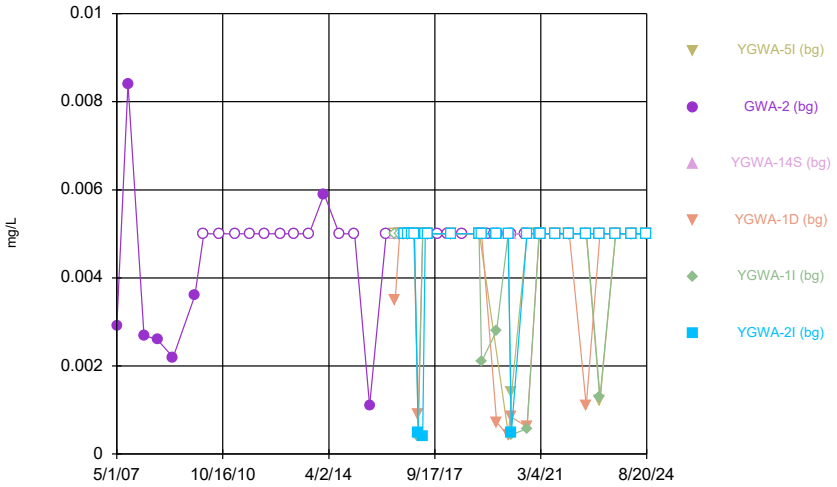
Time Series



Constituent: Chromium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

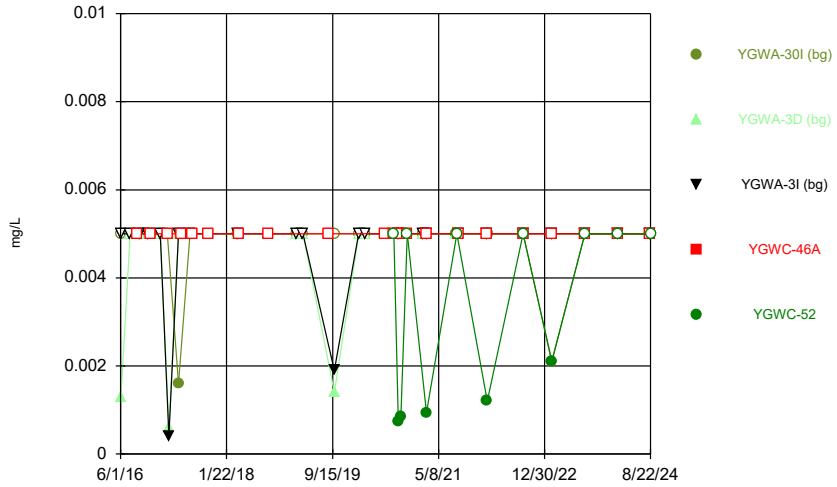
Time Series



Constituent: Chromium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

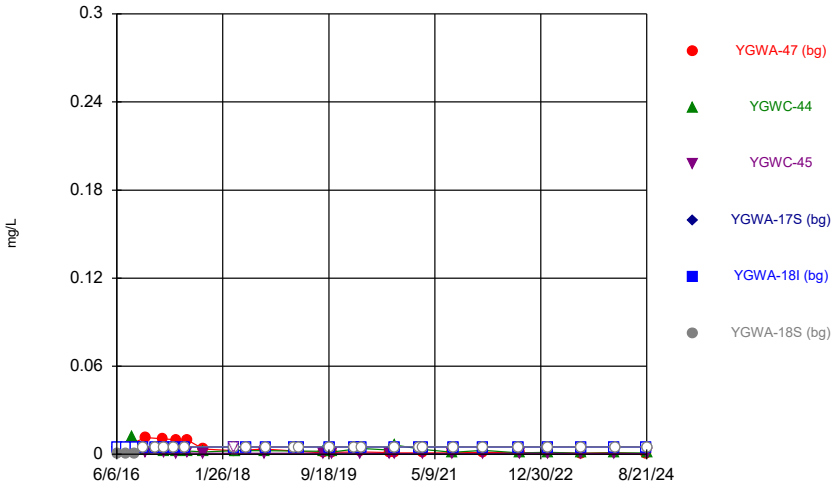
Time Series



Constituent: Chromium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

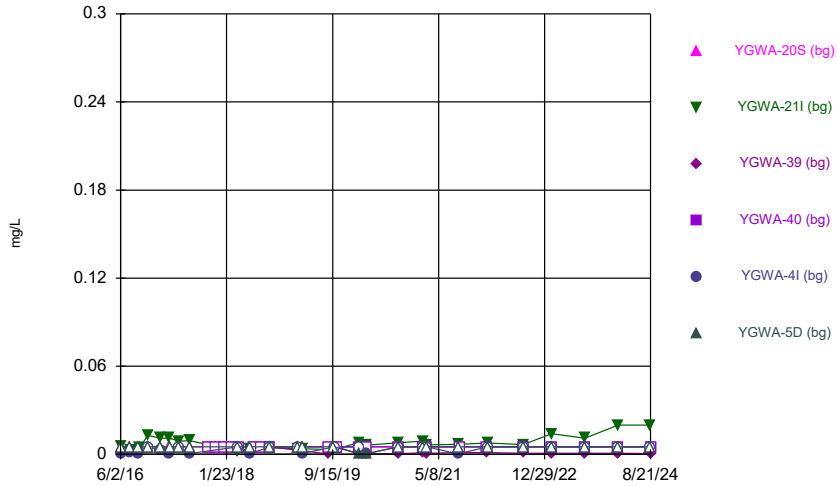
Time Series



Constituent: Cobalt Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

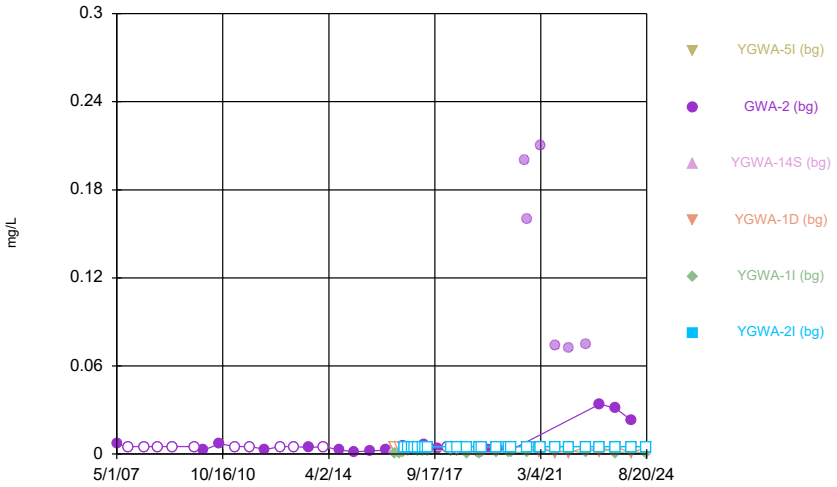
Time Series



Constituent: Cobalt Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

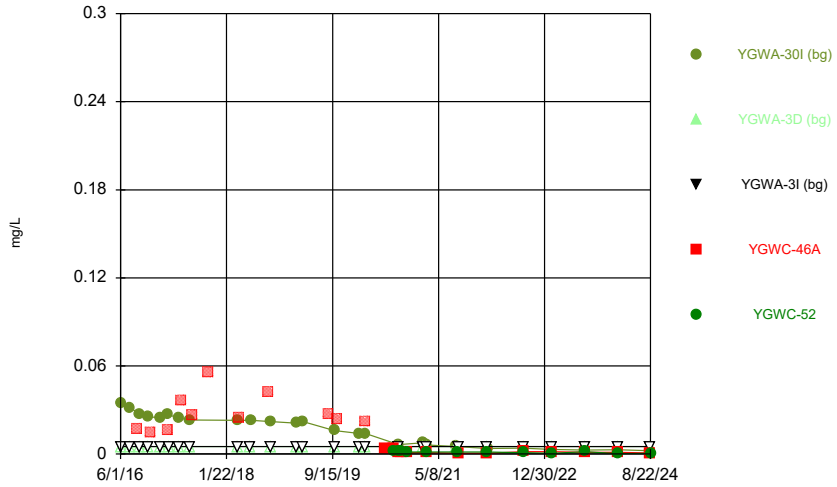
Time Series



Constituent: Cobalt Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

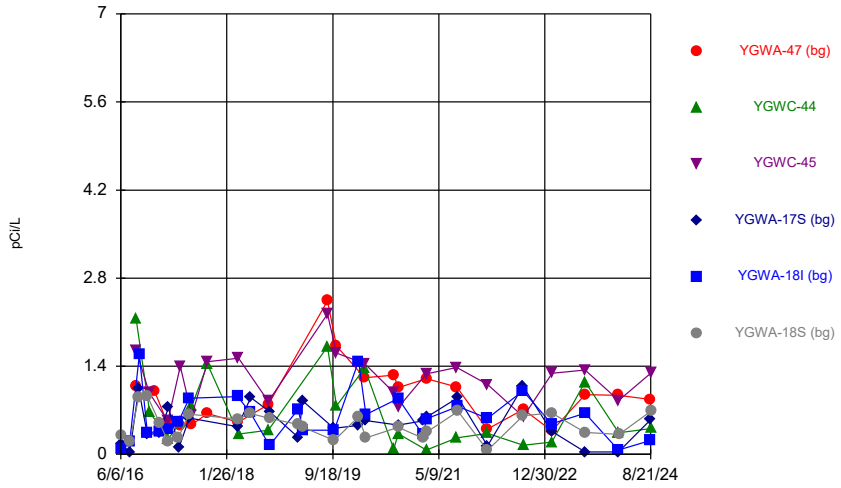
Time Series



Constituent: Cobalt Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

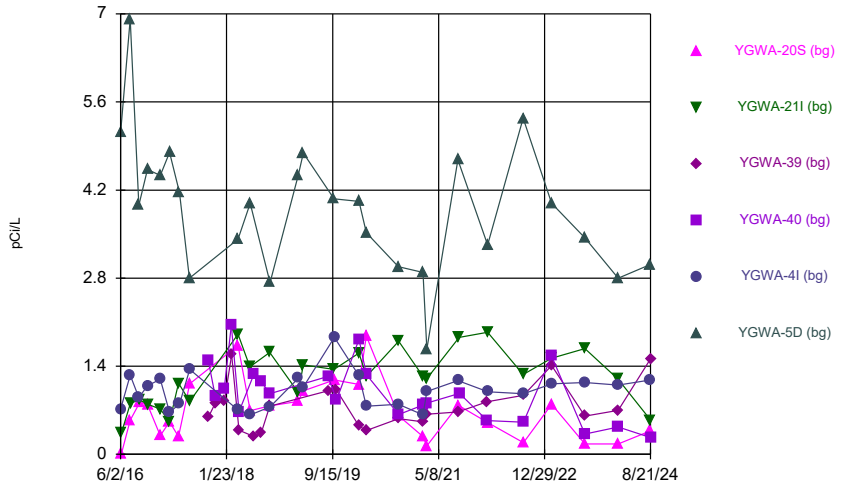


Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

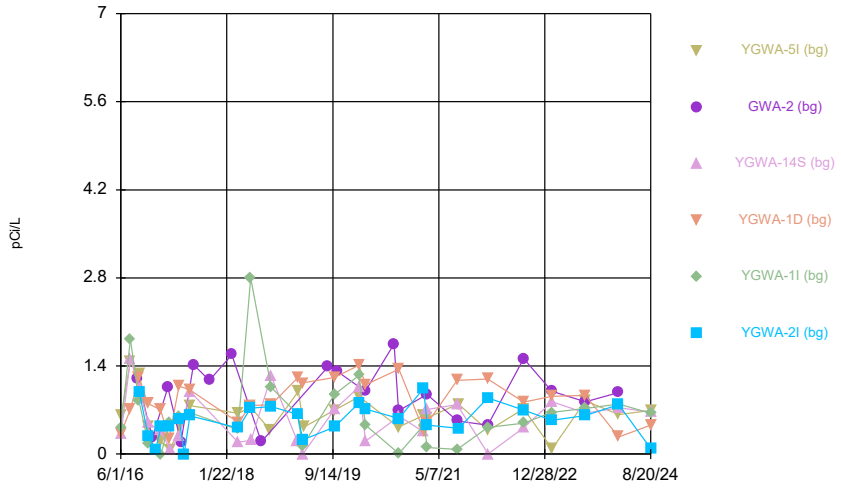


Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

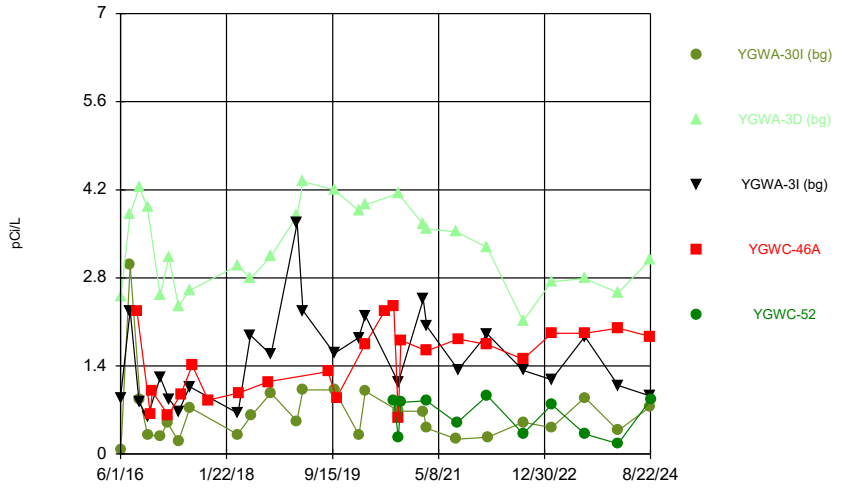


Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

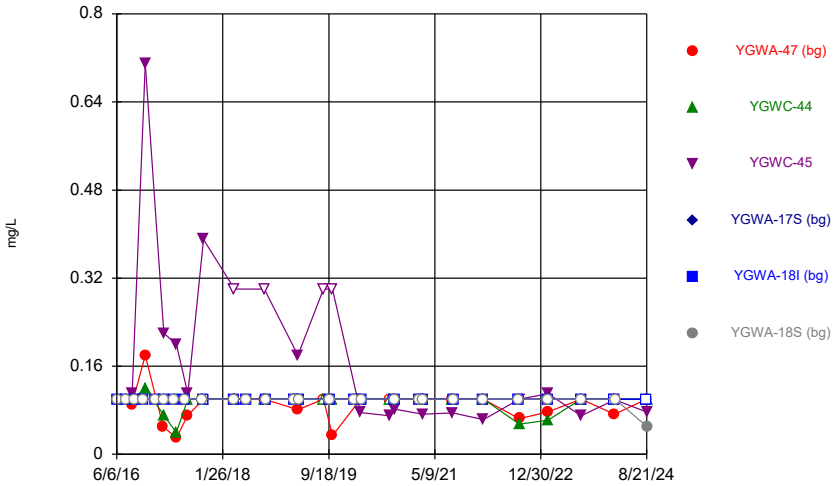


Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

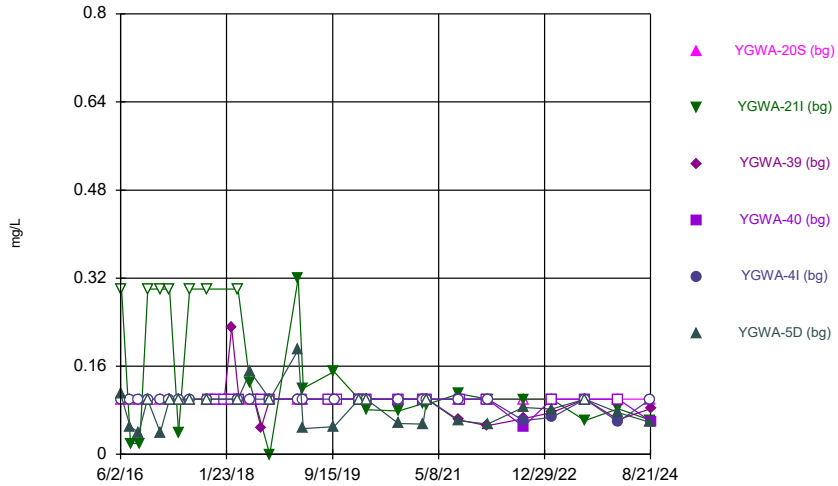
Time Series



Constituent: Fluoride, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

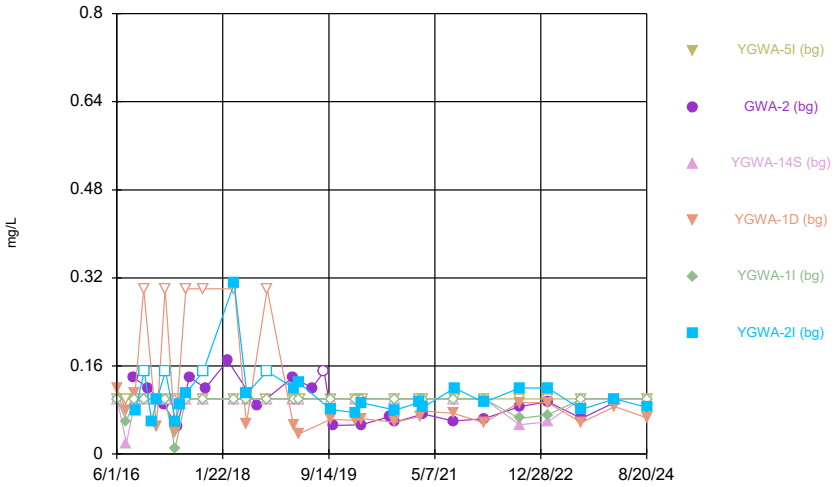
Time Series



Constituent: Fluoride, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

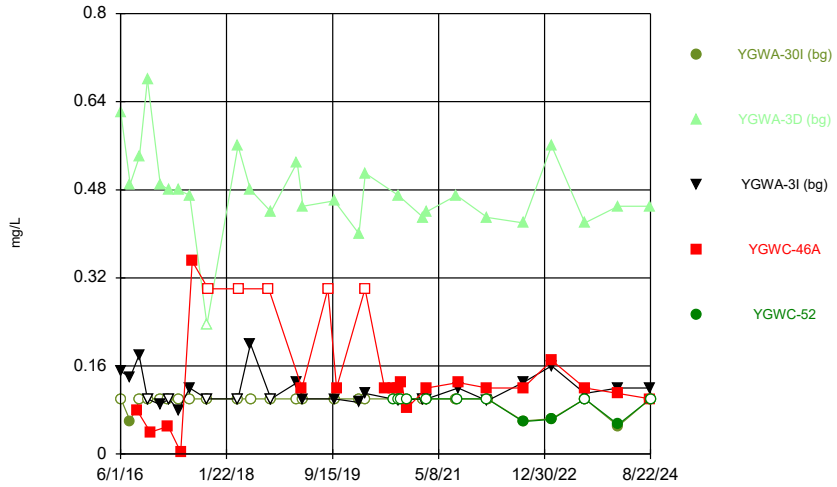
Time Series



Constituent: Fluoride, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

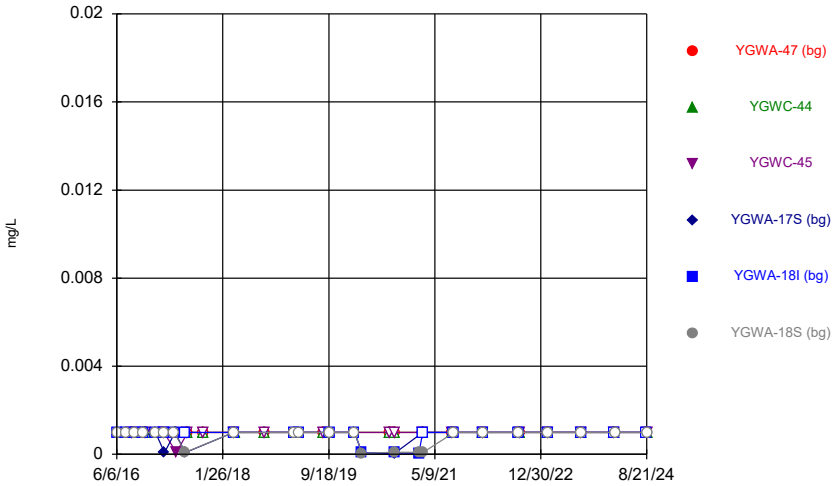
Time Series



Constituent: Fluoride, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

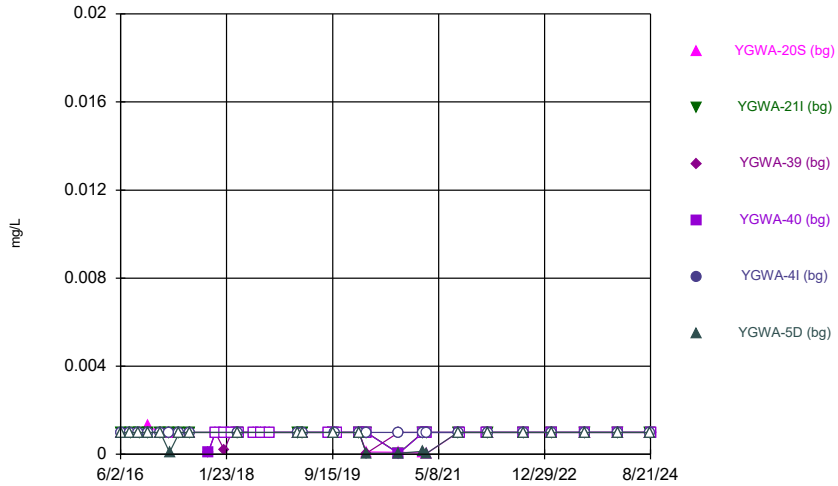
Time Series



Constituent: Lead Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

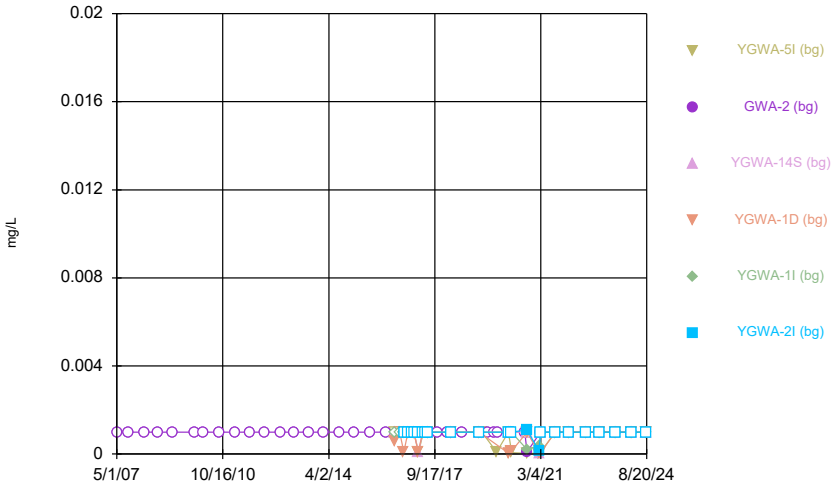
Time Series



Constituent: Lead Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

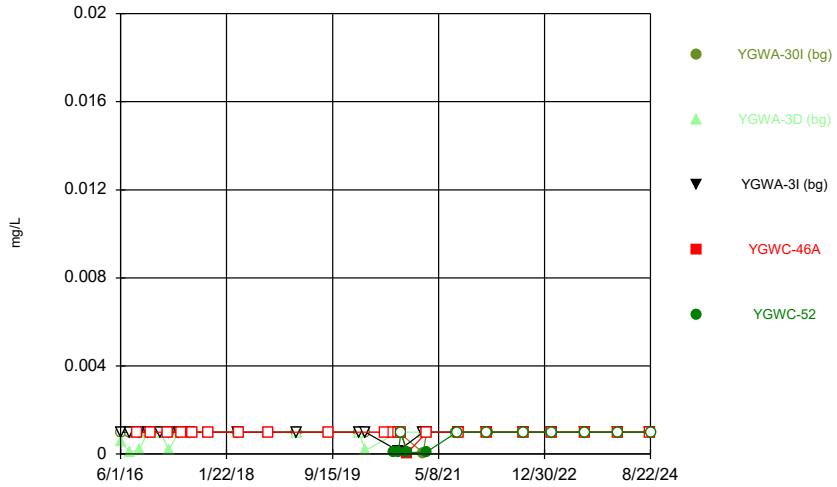
Time Series



Constituent: Lead Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

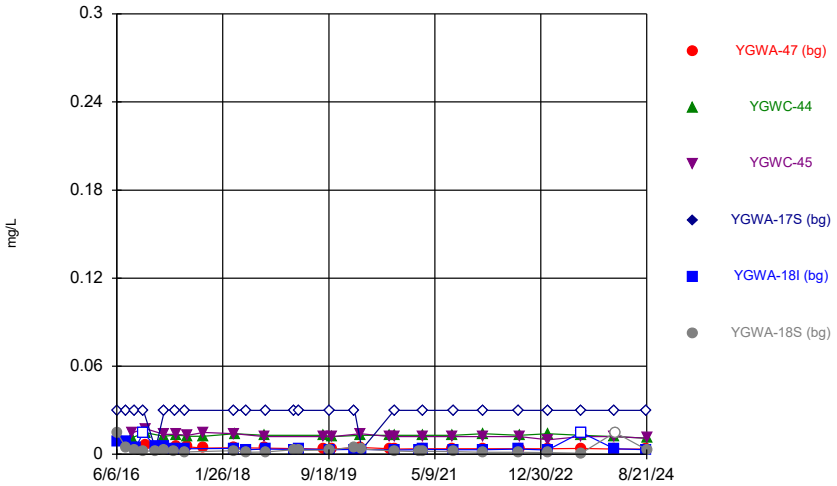
Time Series



Constituent: Lead Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

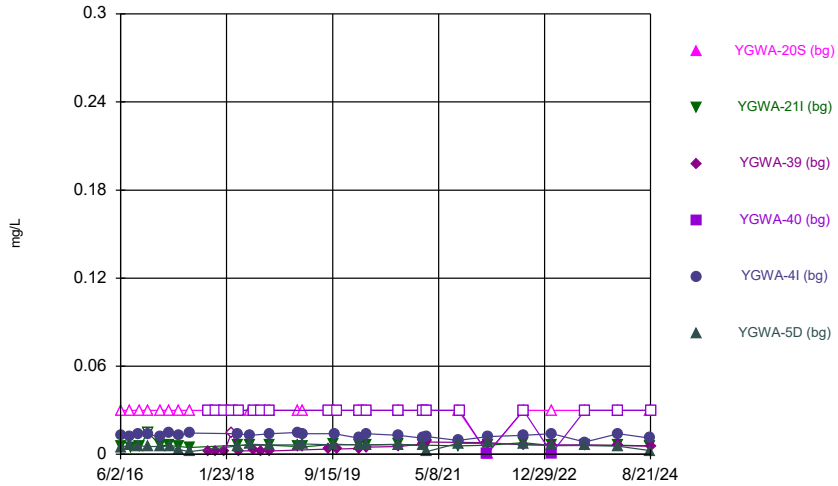
Time Series



Constituent: Lithium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

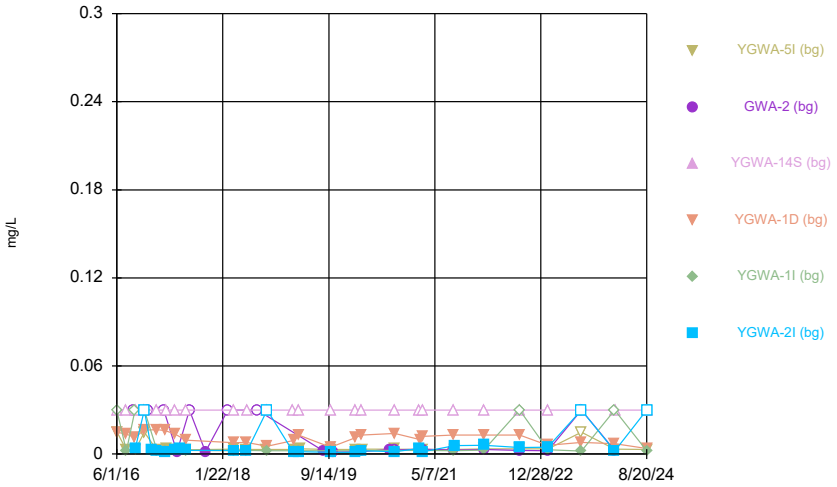
Time Series



Constituent: Lithium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

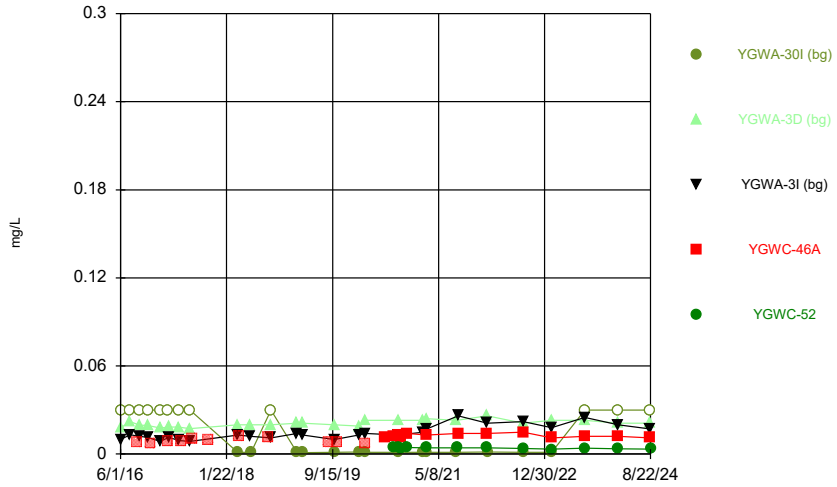
Time Series



Constituent: Lithium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

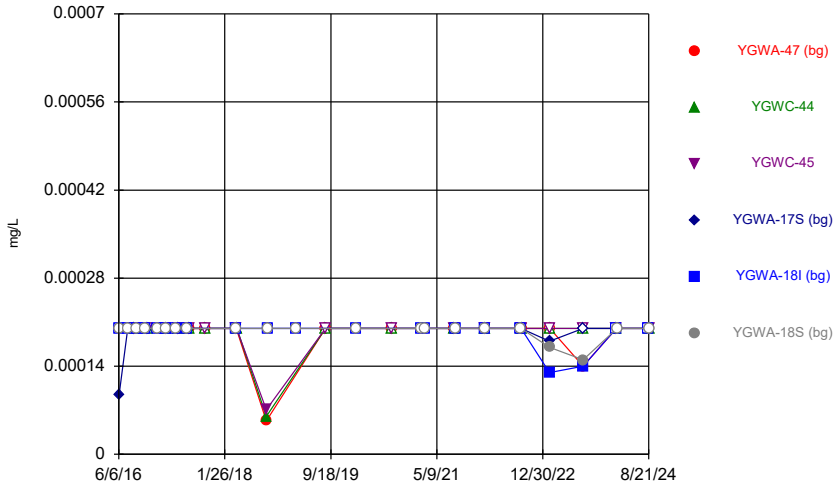
Time Series



Constituent: Lithium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

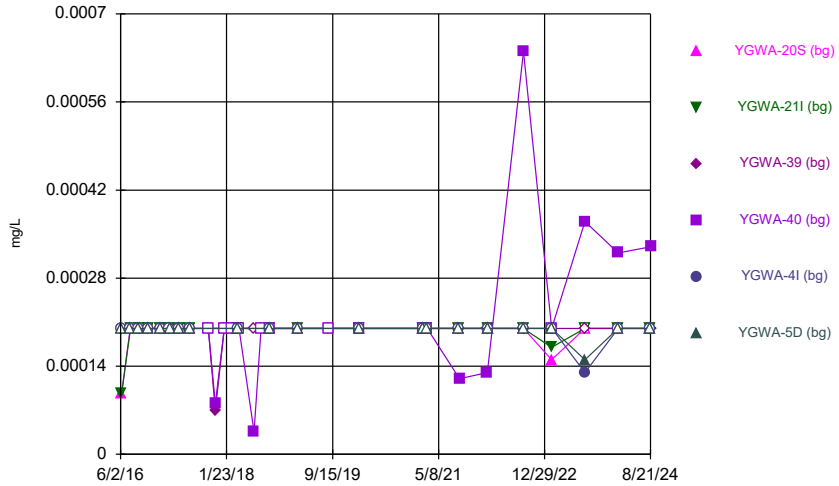
Time Series



Constituent: Mercury Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

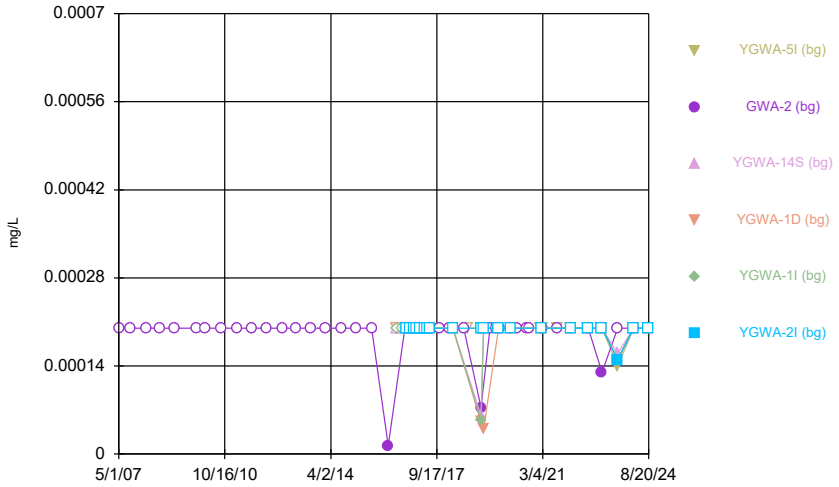
Time Series



Constituent: Mercury Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

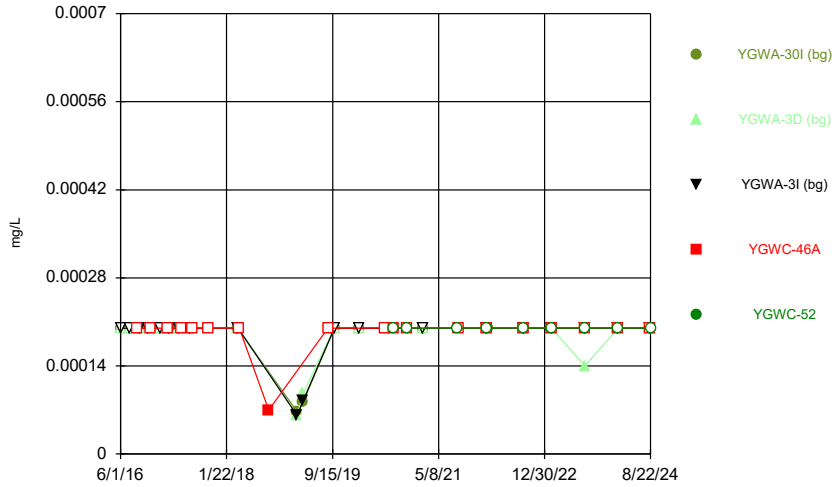
Time Series



Constituent: Mercury Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

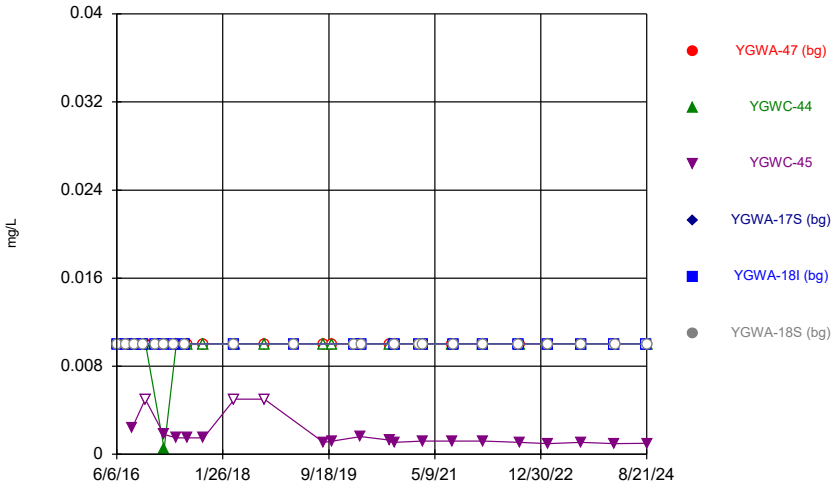
Time Series



Constituent: Mercury Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

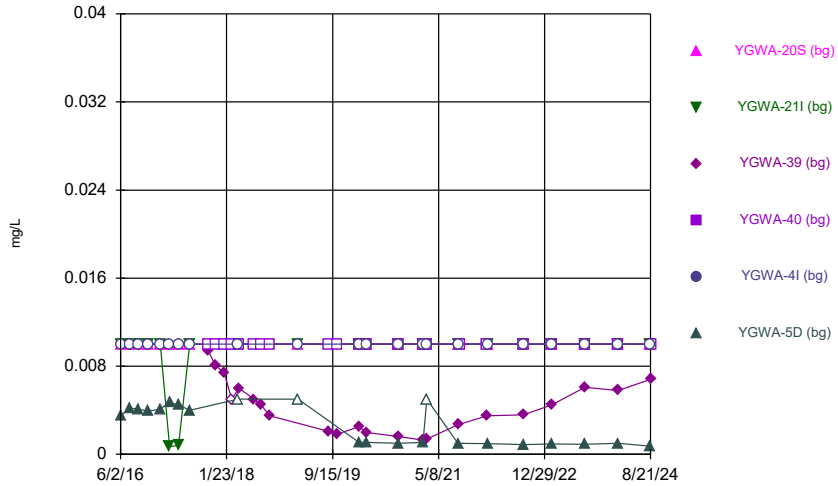
Time Series



Constituent: Molybdenum Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

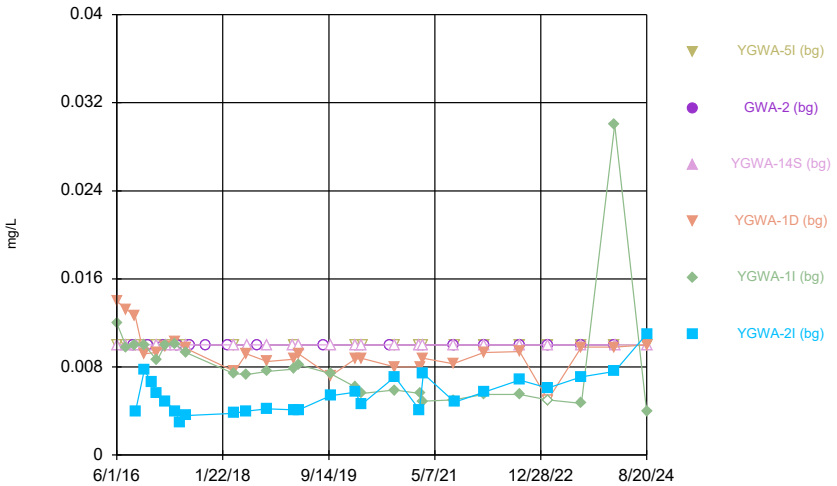
Time Series



Constituent: Molybdenum Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

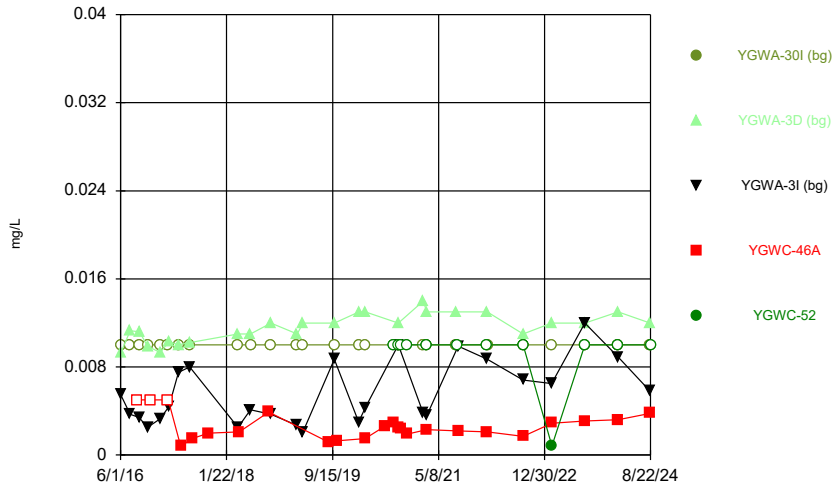
Time Series



Constituent: Molybdenum Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

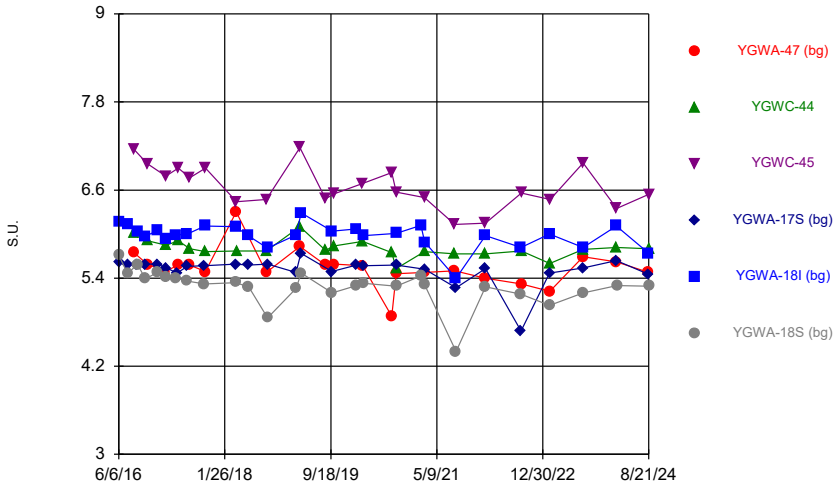
Time Series



Constituent: Molybdenum Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

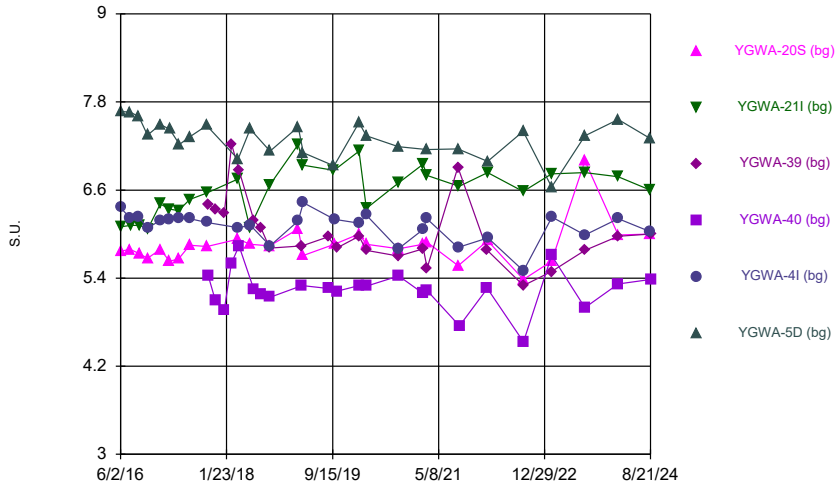
Time Series



Constituent: pH, Field Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

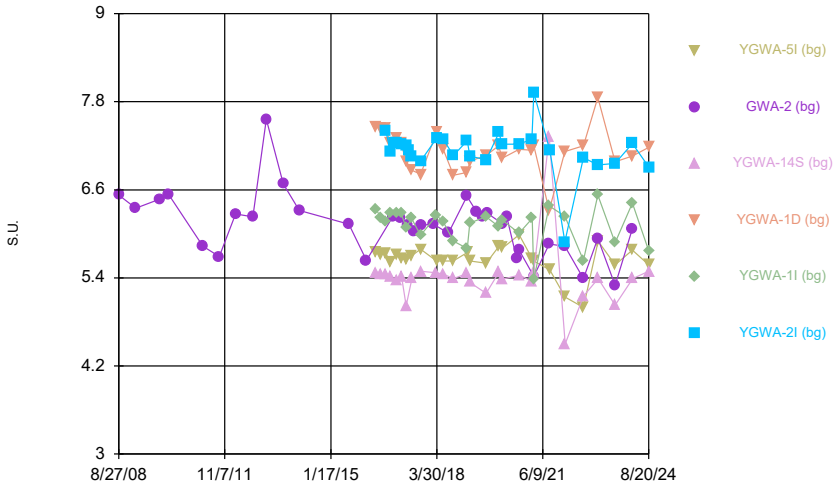
Time Series



Constituent: pH, Field Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

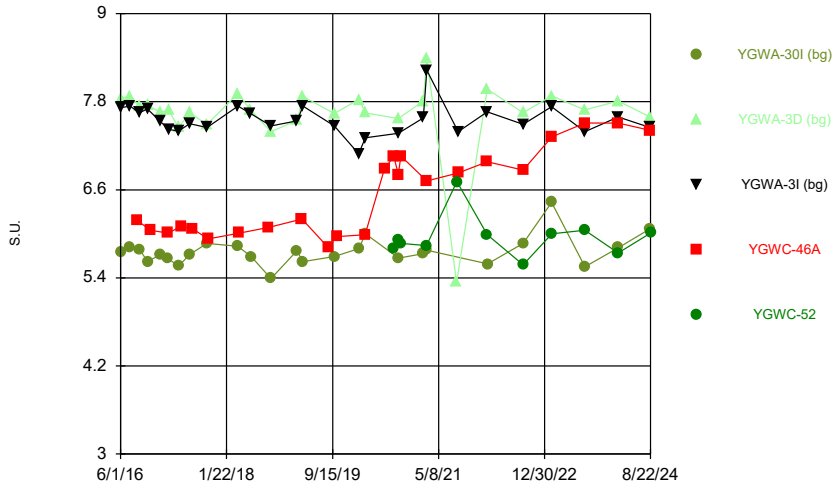
Time Series



Constituent: pH, Field Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

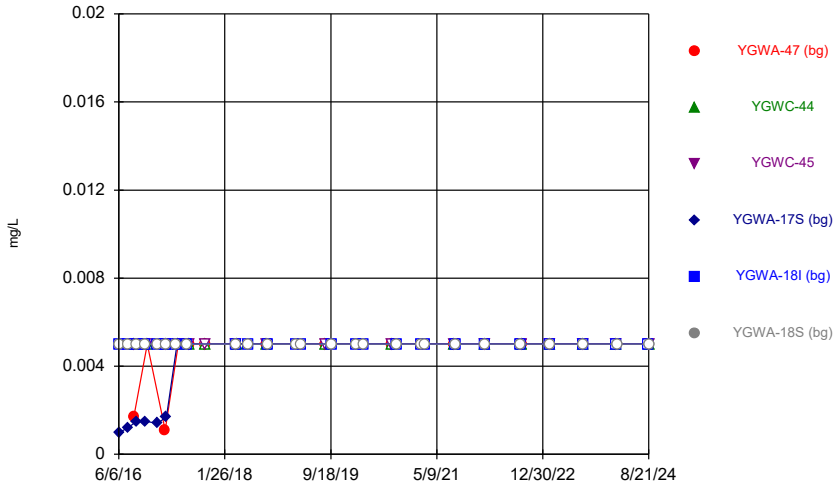
Time Series



Constituent: pH, Field Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

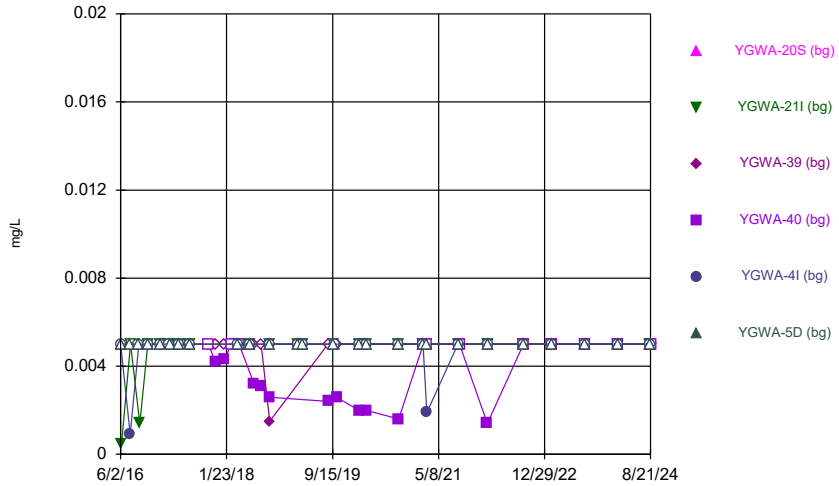
Time Series



Constituent: Selenium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

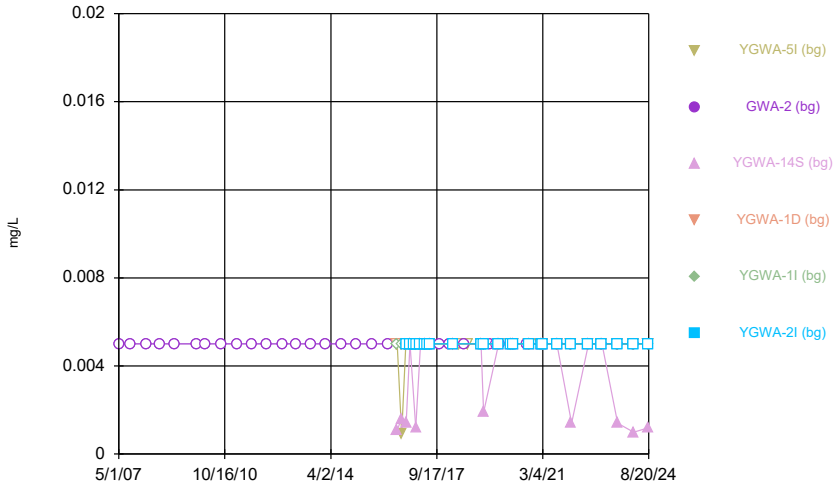
Time Series



Constituent: Selenium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

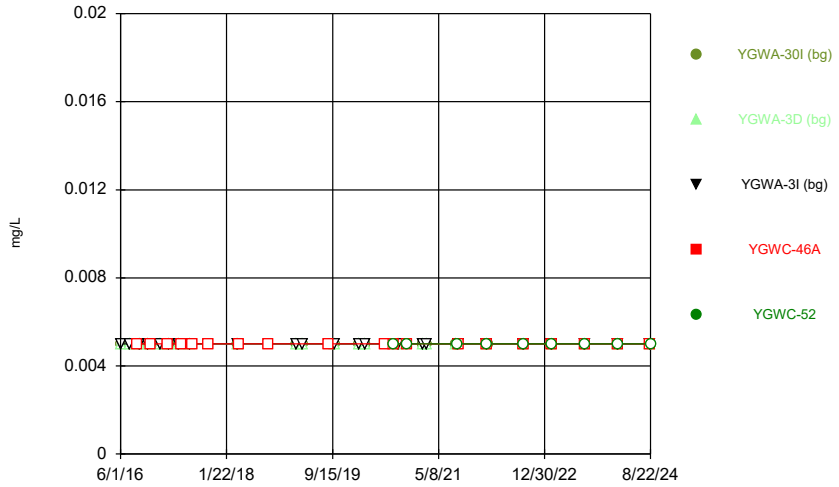
Time Series



Constituent: Selenium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

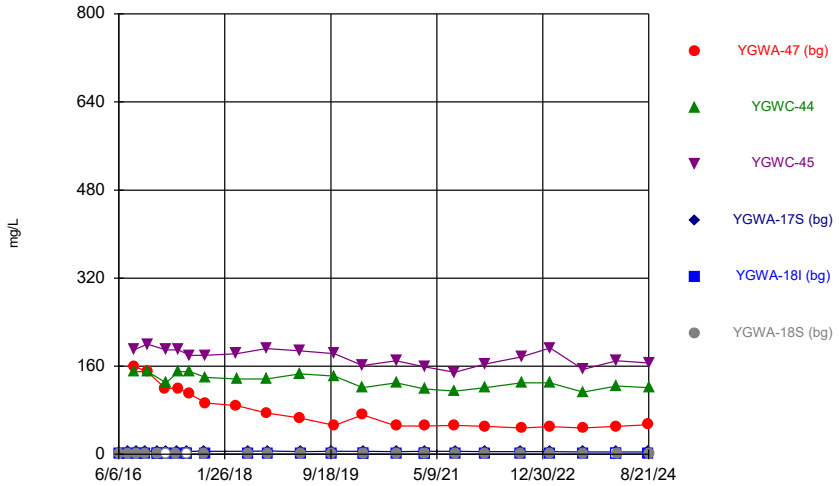
Time Series



Constituent: Selenium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

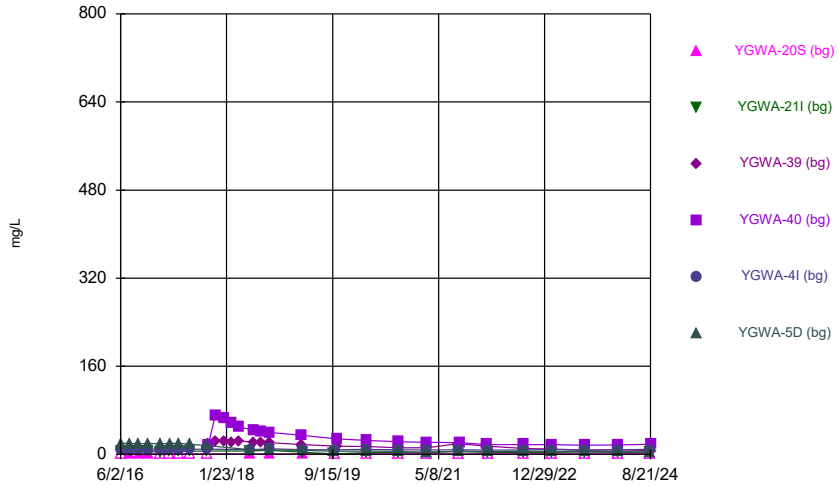
Time Series



Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

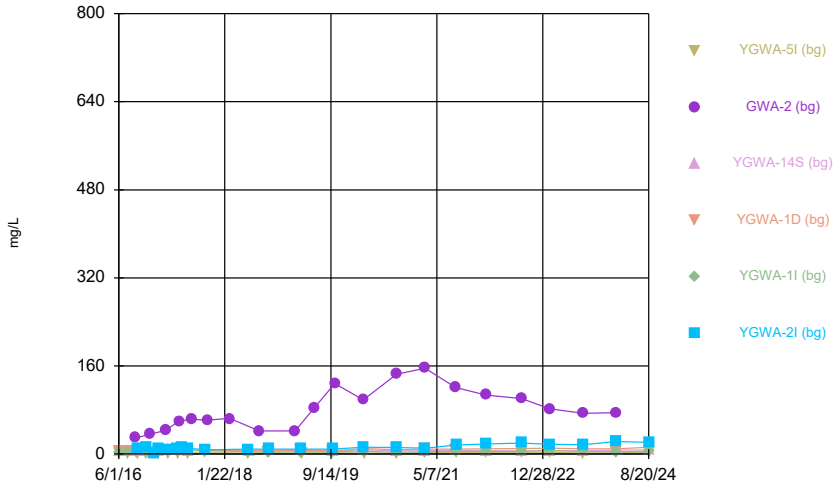
Time Series



Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

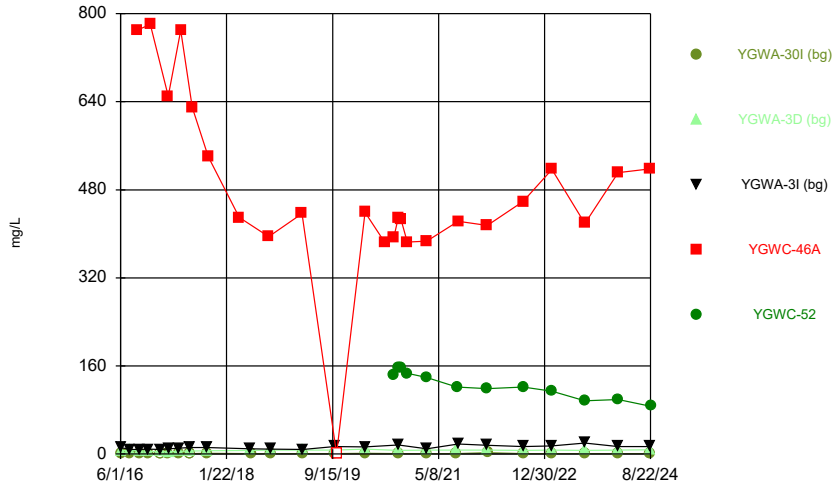
Time Series



Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

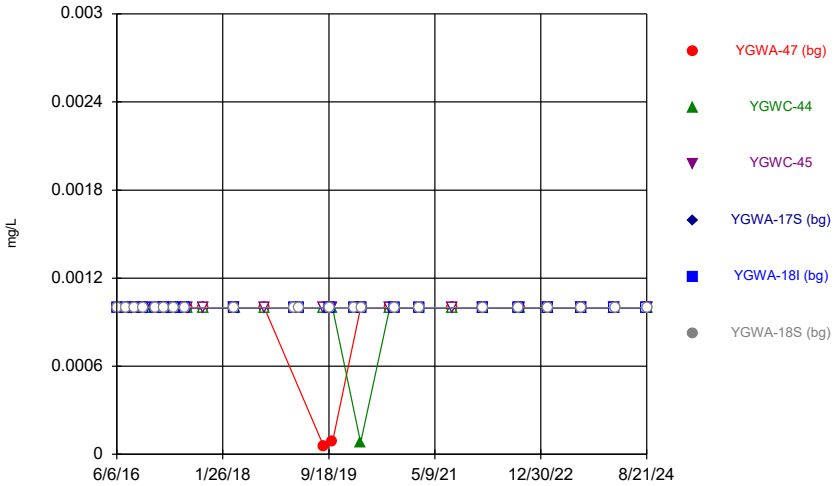
Time Series



Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

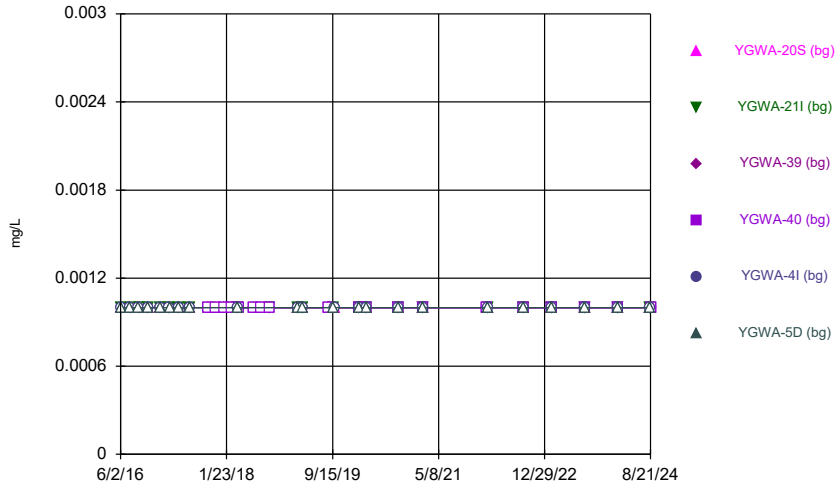
Time Series



Constituent: Thallium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

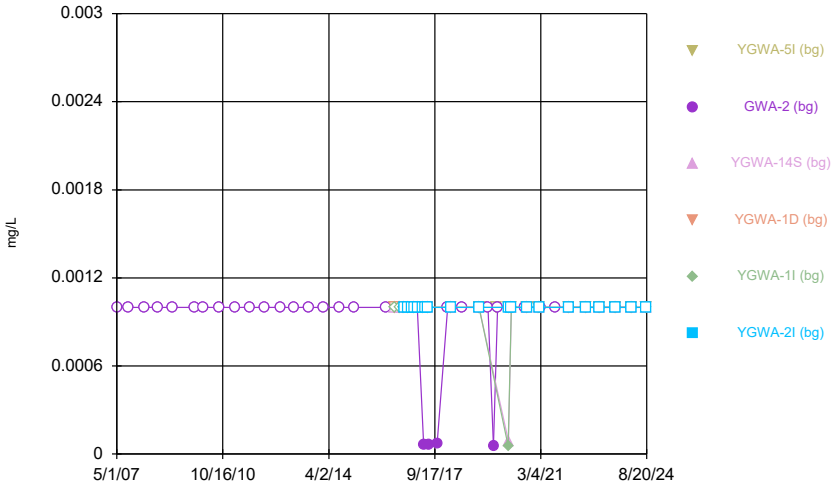
Time Series



Constituent: Thallium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

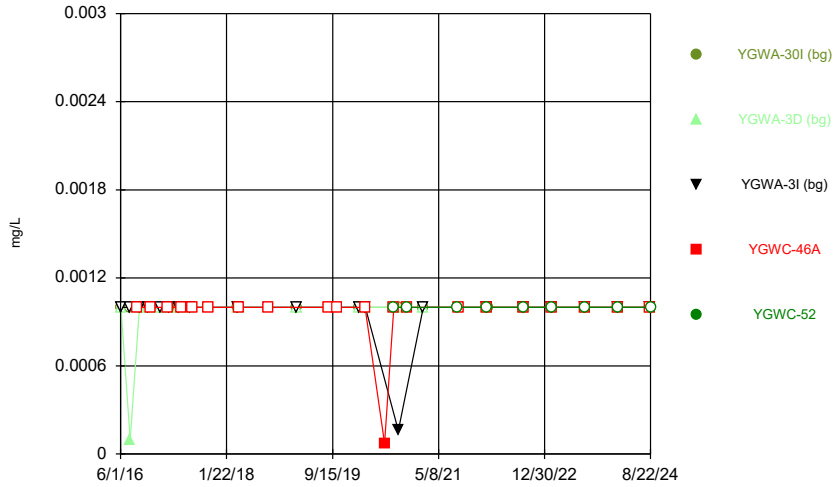
Time Series



Constituent: Thallium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

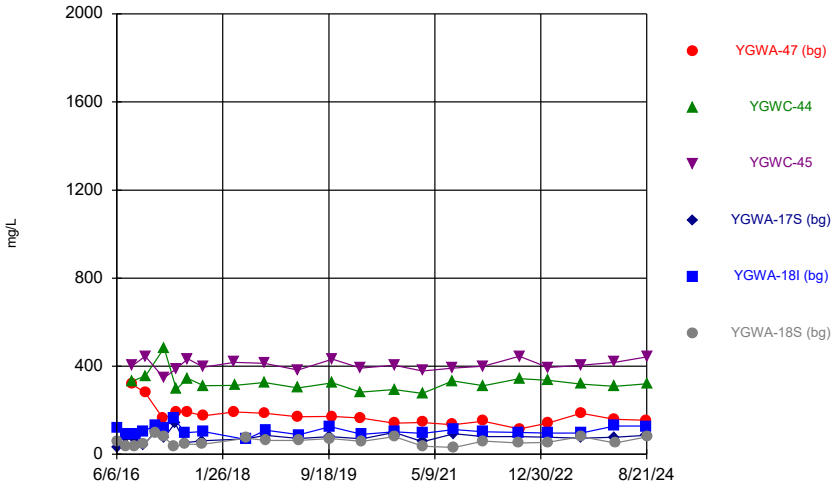
Time Series



Constituent: Thallium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

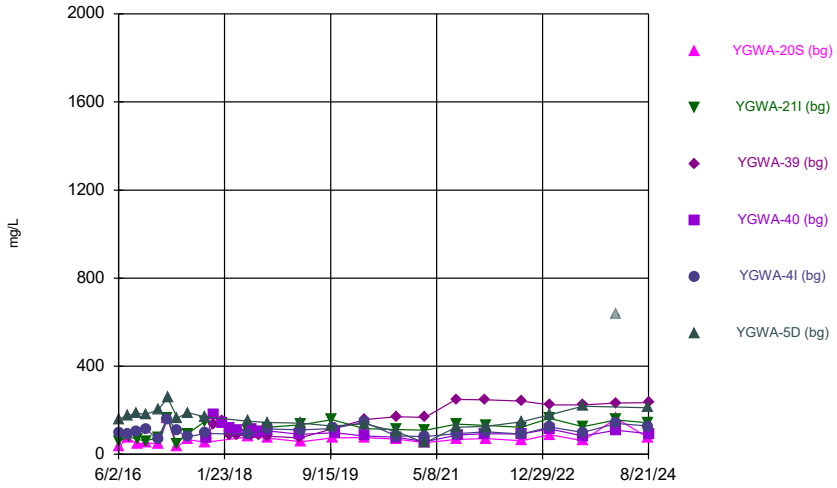


Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:11 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

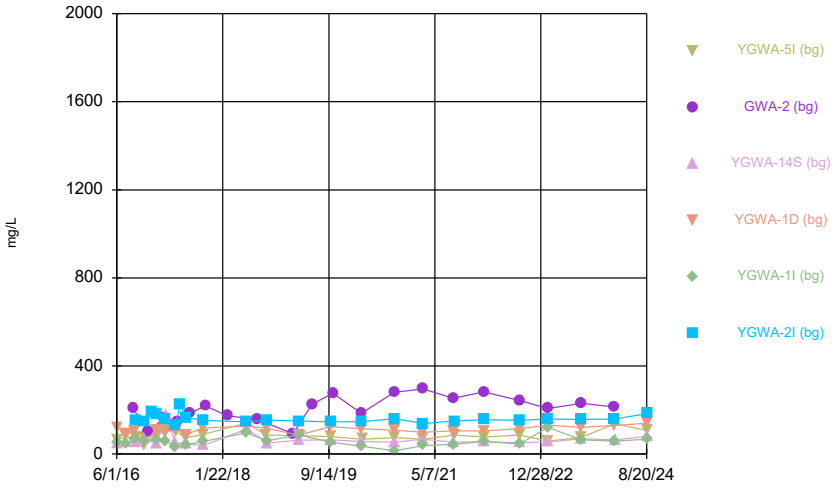


Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:11 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



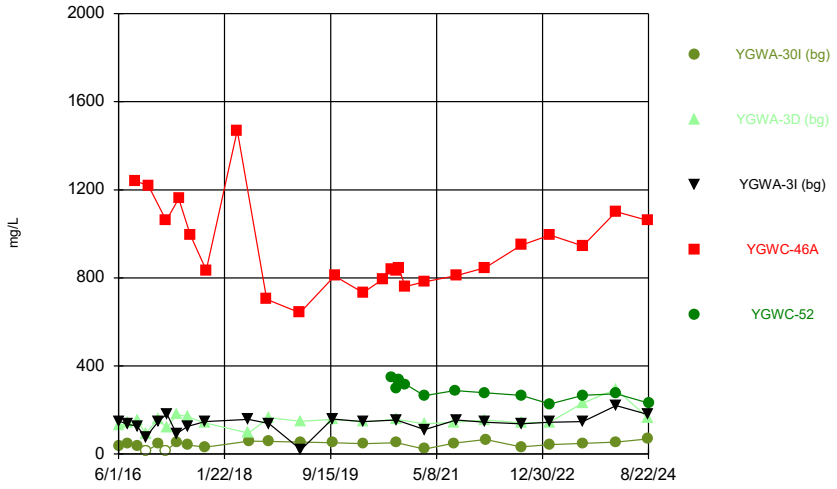
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:11 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:11 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2024 6:11 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.003	<0.003
6/7/2016				<0.003		
7/27/2016				<0.003	0.0005 (J)	<0.003
8/30/2016	0.0028 (J)					
8/31/2016		<0.003	<0.003			
9/16/2016				<0.003		<0.003
9/19/2016					<0.003	
11/3/2016				<0.003	<0.003	<0.003
11/14/2016	<0.003		<0.003			
11/15/2016		<0.003				
1/11/2017				<0.003	<0.003	<0.003
2/24/2017	<0.003					
2/27/2017			<0.003			
2/28/2017		<0.003				
3/1/2017					<0.003	<0.003
3/2/2017				<0.003		
4/26/2017					<0.003	<0.003
5/2/2017				<0.003		
5/8/2017	0.0004 (J)	<0.003				
5/9/2017			<0.003			
6/28/2017					<0.003	<0.003
6/29/2017				<0.003		
7/11/2017	0.0006 (J)					
7/13/2017		<0.003	<0.003			
10/10/2017	<0.003	<0.003	<0.003			
3/28/2018				<0.003	<0.003	<0.003
4/2/2018	<0.003					
4/3/2018			<0.003			
4/4/2018		<0.003				
9/19/2018	<0.003	<0.003	<0.003			
3/5/2019				<0.003		<0.003
3/6/2019					<0.003	
4/2/2019				<0.003		
4/3/2019					<0.003	<0.003
8/20/2019	<0.003	<0.003	<0.003			
9/25/2019				<0.003		
9/26/2019					0.00056 (J)	<0.003
2/11/2020				<0.003	<0.003	<0.003
3/24/2020				<0.003	<0.003	<0.003
8/27/2020	0.00048 (J)	<0.003				
8/28/2020			0.0017 (J)			
9/22/2020	<0.003	<0.003				
9/23/2020			<0.003	<0.003	<0.003	<0.003
2/9/2021					<0.003	<0.003
3/1/2021	0.00048 (J)	<0.003	<0.003			
3/3/2021				<0.003	<0.003	0.00067 (J)
8/19/2021	<0.003	<0.003	<0.003			
8/26/2021						<0.003
8/27/2021				<0.003	<0.003	
2/8/2022	<0.003					
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2022				<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2024 6:11 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/31/2022	<0.003	<0.003	<0.003			
2/7/2023				0.0013 (J)	<0.003	<0.003
2/8/2023	<0.003	<0.003				
2/9/2023			<0.003			
8/15/2023	<0.003	0.0023 (J)	<0.003	<0.003	<0.003	<0.003
2/20/2024	<0.003			<0.003	<0.003	
2/21/2024		<0.003	<0.003			
2/23/2024						<0.003
8/20/2024	<0.003			<0.003	<0.003	
8/21/2024		<0.003	<0.003			<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2024 6:11 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.003	<0.003
6/7/2016	<0.003	<0.003				
7/26/2016					0.0003 (J)	<0.003
7/27/2016	<0.003					
7/28/2016		<0.003				
9/14/2016					<0.003	<0.003
9/19/2016	<0.003	0.001 (J)				
11/2/2016	<0.003				<0.003	<0.003
11/3/2016		<0.003				
1/12/2017						<0.003
1/13/2017	<0.003	<0.003			<0.003	
3/6/2017	<0.003	0.0005 (J)			<0.003	
3/7/2017						<0.003
4/26/2017	<0.003	<0.003				
5/1/2017					<0.003	<0.003
6/27/2017						<0.003
6/29/2017	<0.003	<0.003			<0.003	
10/11/2017			0.0006 (J)			
10/12/2017				<0.003		
11/20/2017			<0.003	<0.003		
1/10/2018				<0.003		
1/11/2018			<0.003			
2/19/2018				<0.003		
2/20/2018			<0.003			
3/29/2018	<0.003	<0.003			<0.003	<0.003
4/3/2018			<0.003	<0.003		
6/28/2018			<0.003	<0.003		
8/7/2018			<0.003	<0.003		
9/24/2018			<0.003	<0.003		
3/4/2019					<0.003	<0.003
3/5/2019	<0.003	0.0011 (J)				
4/2/2019		0.0011 (J)				
4/3/2019	<0.003				<0.003	<0.003
8/21/2019			<0.003	<0.003		
9/24/2019		0.0035				<0.003
9/25/2019	<0.003				<0.003	
2/12/2020	<0.003	0.0015 (J)	<0.003	<0.003	<0.003	<0.003
3/24/2020	<0.003	0.0017 (J)		<0.003		<0.003
3/25/2020			0.0014 (J)		<0.003	
9/22/2020					<0.003	<0.003
9/24/2020	<0.003	0.0047	<0.003	<0.003		
2/8/2021						<0.003
2/9/2021	0.00032 (J)	0.0013 (J)			<0.003	
2/10/2021			<0.003	<0.003		
3/2/2021						<0.003
3/3/2021	<0.003				<0.003	
3/4/2021		0.0014 (J)	<0.003	<0.003		
8/26/2021			<0.003		<0.003	<0.003
8/27/2021	<0.003					
9/1/2021		<0.003				
9/3/2021				<0.003		
2/8/2022			<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2024 6:11 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/9/2022	<0.003	<0.003				
2/10/2022						<0.003
2/11/2022					<0.003	
8/30/2022		0.0046				<0.003
8/31/2022	<0.003		<0.003	<0.003	<0.003	
2/7/2023	<0.003	<0.003	<0.003			<0.003
2/8/2023				<0.003		
2/9/2023					<0.003	
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/20/2024	<0.003	0.0013 (J)	<0.003	<0.003	0.00061 (J)	<0.003
8/20/2024	<0.003	<0.003			<0.003	<0.003
8/21/2024			<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2024 6:11 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.003				
9/11/2007		<0.003				
3/20/2008		<0.003				
8/27/2008		<0.003				
3/3/2009		<0.003				
11/18/2009		<0.003				
3/3/2010		<0.003				
9/8/2010		<0.003				
3/10/2011		<0.003				
9/8/2011		<0.003				
3/5/2012		<0.003				
9/10/2012		<0.003				
2/6/2013		<0.003				
8/12/2013		<0.003				
2/5/2014		<0.003				
8/5/2014		<0.003				
2/4/2015		<0.003				
8/3/2015		<0.003				
2/16/2016		<0.003				
6/1/2016				<0.003	<0.003	
6/2/2016	<0.003		<0.003			
7/25/2016					<0.003	
7/26/2016	<0.003		0.0005 (J)	0.001 (J)		
8/31/2016		<0.003				
9/13/2016				0.001 (J)	<0.003	
9/14/2016	<0.003					<0.003
9/15/2016			<0.003			
11/1/2016				0.0015 (J)		
11/2/2016			<0.003			
11/4/2016	<0.003				<0.003	<0.003
11/28/2016		0.0014 (J)				
12/15/2016						0.0012 (J)
1/10/2017			<0.003			
1/11/2017				<0.003		
1/12/2017	<0.003					
1/16/2017					<0.003	<0.003
2/22/2017		<0.003				
3/2/2017				0.0004 (J)	<0.003	
3/3/2017						<0.003
3/7/2017	<0.003					
3/8/2017			<0.003			
4/26/2017			<0.003			
4/27/2017				0.0004 (J)	0.0017 (J)	
4/28/2017						0.0015 (J)
5/2/2017	<0.003					
5/8/2017		<0.003				
5/26/2017						0.0005 (J)
6/27/2017	<0.003			<0.003	<0.003	
6/28/2017						<0.003
6/30/2017			<0.003			
7/17/2017		<0.003				
10/16/2017		<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2024 6:11 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.003				
3/27/2018			<0.003		<0.003	
3/28/2018						<0.003
3/29/2018	<0.003			<0.003		
8/6/2018		<0.003				
2/25/2019		<0.003				
2/26/2019			<0.003			
2/27/2019				<0.003	<0.003	<0.003
3/4/2019	<0.003					
4/3/2019	<0.003					
6/12/2019		<0.003				
8/19/2019		<0.003				
9/24/2019	<0.003					
10/8/2019		<0.003				
2/10/2020				0.00088 (J)	<0.003	
2/11/2020						0.00036 (J)
2/12/2020	<0.003		<0.003			
3/17/2020		<0.003				
3/18/2020			<0.003		0.0004 (J)	
3/19/2020				<0.003		0.0003 (J)
3/24/2020	<0.003					
8/26/2020		0.00042 (J)				
9/22/2020	<0.003	0.00044 (J)				
9/23/2020				<0.003	<0.003	<0.003
9/25/2020			<0.003			
2/8/2021	<0.003					
2/10/2021			<0.003			0.0013 (J)
2/12/2021				<0.003	<0.003	
3/2/2021	<0.003	<0.003	<0.003			
3/3/2021				<0.003	<0.003	<0.003
8/19/2021			<0.003	<0.003	<0.003	
8/20/2021		<0.003				
8/26/2021	<0.003					
8/27/2021						<0.003
2/8/2022		<0.003				
2/9/2022				<0.003	<0.003	<0.003
2/10/2022	<0.003		<0.003			
8/30/2022	<0.003	<0.003		<0.003		<0.003
8/31/2022			<0.003		<0.003	
2/7/2023		<0.003		<0.003	<0.003	<0.003
2/8/2023			<0.003			
2/9/2023	<0.003					
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/20/2024	<0.003	0.0026 (J)		0.0023 (J)	<0.003	0.00067 (J)
2/23/2024			<0.003			
8/20/2024	<0.003		<0.003	0.00088 (J)	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.003		
6/2/2016	<0.003	<0.003			
7/25/2016	<0.003		<0.003		
7/26/2016		0.002 (J)			
9/1/2016				<0.003	
9/14/2016			<0.003		
9/15/2016		0.0027 (J)			
9/19/2016	<0.003				
11/1/2016	<0.003	<0.003	<0.003		
11/16/2016				<0.003	
1/11/2017		<0.003	<0.003		
1/16/2017	<0.003				
2/21/2017	<0.003				
2/27/2017				<0.003	
3/1/2017			<0.003		
3/2/2017		0.0008 (J)			
4/26/2017	<0.003	<0.003	<0.003		
5/8/2017				<0.003	
6/28/2017		<0.003	<0.003		
6/30/2017	<0.003				
7/13/2017				<0.003	
10/11/2017				<0.003	
3/27/2018	<0.003				
3/28/2018		<0.003	<0.003		
4/4/2018				<0.003	
9/19/2018				<0.003	
2/26/2019	<0.003				
2/27/2019		<0.003	<0.003		
8/21/2019				<0.003	
2/11/2020			<0.003		
2/12/2020	<0.003	<0.003			
3/19/2020	<0.003	0.00064 (J)	<0.003		
7/6/2020				<0.003	
8/27/2020					<0.003
8/28/2020				0.00029 (J)	
9/22/2020					<0.003
9/23/2020		<0.003	<0.003	<0.003	
9/24/2020	<0.003				
10/7/2020				<0.003	<0.003
11/12/2020				<0.003	<0.003
2/10/2021		<0.003	<0.003		
2/11/2021	<0.003				
3/1/2021	<0.003				<0.003
3/2/2021				<0.003	
3/3/2021		<0.003	<0.003		
8/19/2021	<0.003	<0.003			
8/20/2021					<0.003
8/27/2021			<0.003	<0.003	
2/9/2022		0.0018 (J)	<0.003	<0.003	<0.003
2/11/2022	<0.003				
8/31/2022	<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2023	<0.003	<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
2/10/2023				<0.003	<0.003
8/15/2023		<0.003		<0.003	<0.003
8/16/2023	<0.003		<0.003		
2/20/2024	<0.003	<0.003	<0.003		
2/21/2024				<0.003	<0.003
8/20/2024	<0.003	<0.003	<0.003		
8/21/2024				<0.003	
8/22/2024					<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.005	<0.005
6/7/2016				<0.005		
7/27/2016				<0.005	<0.005	<0.005
8/30/2016	<0.005					
8/31/2016		<0.005	<0.005			
9/16/2016				<0.005		<0.005
9/19/2016					<0.005	
11/3/2016				<0.005	<0.005	<0.005
11/14/2016	<0.005		<0.005			
11/15/2016		<0.005				
1/11/2017				<0.005	<0.005	<0.005
2/24/2017	<0.005					
2/27/2017			<0.005			
2/28/2017		0.0005 (J)				
3/1/2017					<0.005	<0.005
3/2/2017				<0.005		
4/26/2017					<0.005	<0.005
5/2/2017				<0.005		
5/8/2017	<0.005	0.0006 (J)				
5/9/2017			<0.005			
6/28/2017					<0.005	<0.005
6/29/2017				<0.005		
7/11/2017	<0.005					
7/13/2017		<0.005	<0.005			
10/10/2017	0.0007 (J)	0.0007 (J)	0.0006 (J)			
3/28/2018				<0.005	<0.005	0.00061 (J)
4/2/2018	<0.005					
4/3/2018			0.00061 (J)			
4/4/2018		<0.005				
6/7/2018					0.00066 (J)	
6/11/2018				<0.005		<0.005
9/19/2018	0.00072 (J)	0.00086 (J)	0.00072 (J)			
9/25/2018				<0.005	<0.005	<0.005
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
4/2/2019				<0.005		
4/3/2019					<0.005	<0.005
8/20/2019	<0.005	0.00097 (J)	0.00078 (J)			
9/25/2019				<0.005		
9/26/2019					<0.005	<0.005
10/8/2019	<0.005	<0.005				
10/9/2019			<0.005			
2/11/2020				0.0022 (J)	0.0014 (J)	0.0026 (J)
3/17/2020	<0.005	<0.005	<0.005			
3/24/2020				<0.005	<0.005	<0.005
8/27/2020	<0.005	<0.005				
8/28/2020			<0.005			
9/22/2020	<0.005	<0.005				
9/23/2020			<0.005	<0.005	<0.005	<0.005
2/9/2021					<0.005	<0.005
3/1/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	<0.005	<0.005	<0.005			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	0.0027 (J)					
2/9/2022		<0.005	<0.005	0.0024 (J)	0.0022 (J)	0.0024 (J)
8/30/2022				<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005			
2/7/2023				<0.005	<0.005	<0.005
2/8/2023	<0.005	<0.005				
2/9/2023			<0.005			
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005			<0.005	<0.005	
2/21/2024		0.0041 (J)	0.0028 (J)			
2/23/2024						<0.005
8/20/2024	<0.005			<0.005	<0.005	
8/21/2024		0.0043 (J)	<0.005			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.005	0.00071 (J)
6/7/2016	<0.005	<0.005				
7/26/2016					<0.005	0.001 (J)
7/27/2016	<0.005					
7/28/2016		<0.005				
9/14/2016					<0.005	<0.005
9/19/2016	<0.005	<0.005				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		<0.005				
1/12/2017						<0.005
1/13/2017	<0.005	<0.005			<0.005	
3/6/2017	<0.005	0.0017 (J)			<0.005	
3/7/2017						0.0012 (J)
4/26/2017	<0.005	<0.005				
5/1/2017					<0.005	<0.005
6/27/2017						0.0019 (J)
6/29/2017	<0.005	<0.005			<0.005	
10/11/2017			0.0009 (J)			
10/12/2017				<0.005		
11/20/2017			<0.005	<0.005		
1/10/2018				<0.005		
1/11/2018			<0.005			
2/19/2018				<0.005		
2/20/2018			<0.005			
3/29/2018	<0.005	0.0015 (J)			<0.005	0.0006 (J)
4/3/2018			<0.005	<0.005		
6/5/2018		0.0013 (J)				
6/6/2018	<0.005					0.0013 (J)
6/7/2018					0.00059 (J)	
6/28/2018			<0.005	<0.005		
8/7/2018			<0.005	<0.005		
9/24/2018			<0.005	<0.005		
9/25/2018	<0.005	0.0022 (J)				
9/26/2018					<0.005	0.0014 (J)
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	0.0013 (J)				
4/2/2019		0.00096 (J)				
4/3/2019	<0.005				<0.005	<0.005
8/21/2019			0.00058 (J)	<0.005		
9/24/2019		0.0026 (J)				0.00043 (J)
9/25/2019	<0.005				<0.005	
10/9/2019			0.00063 (J)	<0.005		
2/12/2020	<0.005	0.0025 (J)	0.00058 (J)	0.0034 (J)	<0.005	0.0046 (J)
3/24/2020	<0.005	0.0013 (J)		<0.005		0.00065 (J)
3/25/2020			0.0012 (J)		<0.005	
9/22/2020					<0.005	0.001 (J)
9/24/2020	<0.005	0.0014 (J)	<0.005	<0.005		
2/8/2021						<0.005
2/9/2021	<0.005	0.001 (J)			<0.005	
2/10/2021			<0.005	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.00078 (J)	<0.005	<0.005		
8/26/2021			<0.005		<0.005	0.0016 (J)
8/27/2021	<0.005					
9/1/2021		<0.005				
9/3/2021				<0.005		
2/8/2022			0.0034 (J)	0.003 (J)		
2/9/2022	0.0021 (J)	0.0036 (J)				
2/10/2022						0.004 (J)
2/11/2022					0.0014 (J)	
8/30/2022		0.0022 (J)				0.0031 (J)
8/31/2022	<0.005		0.0029 (J)	<0.005	<0.005	
2/7/2023	<0.005	0.0028 (J)	0.0029 (J)			0.003 (J)
2/8/2023				<0.005		
2/9/2023					<0.005	
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005	0.002 (J)	0.0012 (J)	<0.005	0.003 (J)
8/20/2024	<0.005	<0.005			<0.005	0.0012 (J)
8/21/2024			0.0027 (J)	0.0014 (J)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.005				
9/11/2007		<0.005				
3/20/2008		<0.005				
8/27/2008		<0.005				
3/3/2009		<0.005				
11/18/2009		<0.005				
3/3/2010		<0.005				
9/8/2010		<0.005				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		<0.005				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		<0.005				
2/5/2014		<0.005				
8/5/2014		<0.005				
2/4/2015		<0.005				
8/3/2015		<0.005				
2/16/2016		<0.005				
6/1/2016				0.0021	<0.005	
6/2/2016	<0.005		<0.005			
7/25/2016					<0.005	
7/26/2016	<0.005		<0.005	0.0016 (J)		
8/31/2016		<0.005				
9/13/2016				<0.005	<0.005	
9/14/2016	<0.005					<0.005
9/15/2016			<0.005			
11/1/2016				<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				<0.005	0.0017 (J)
11/28/2016		<0.005				
12/15/2016						0.0023 (J)
1/10/2017			<0.005			
1/11/2017				0.0017 (J)		
1/12/2017	<0.005					
1/16/2017					<0.005	0.0018 (J)
2/22/2017		<0.005				
3/2/2017				0.0014 (J)	<0.005	
3/3/2017						0.0016 (J)
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				0.0018 (J)	<0.005	
4/28/2017						0.002 (J)
5/2/2017	<0.005					
5/8/2017		<0.005				
5/26/2017						0.0005 (J)
6/27/2017	<0.005			0.0018 (J)	<0.005	
6/28/2017						0.0016 (J)
6/30/2017			<0.005			
7/17/2017		<0.005				
10/16/2017		<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						0.0013 (J)
3/29/2018	<0.005			0.0017 (J)		
6/5/2018				0.0013 (J)		
6/6/2018					<0.005	
6/7/2018	<0.005					0.00082 (J)
6/8/2018			<0.005			
8/6/2018		<0.005				
9/26/2018	<0.005					
10/1/2018			<0.005	0.0016 (J)	<0.005	0.0011 (J)
2/25/2019		<0.005				
2/26/2019			<0.005			
2/27/2019				0.0015 (J)	<0.005	0.001 (J)
3/4/2019	<0.005					
3/28/2019				0.00072 (J)	<0.005	
3/29/2019			<0.005			0.00063 (J)
4/3/2019	<0.005					
6/12/2019		0.00038 (J)				
8/19/2019		0.00095 (J)				
9/24/2019	<0.005			0.0014 (J)	<0.005	<0.005
9/25/2019			<0.005			
10/8/2019		<0.005				
2/10/2020				0.0026 (J)	0.0005 (J)	
2/11/2020						0.0044 (J)
2/12/2020	0.002 (J)		<0.005			
3/17/2020		<0.005				
3/18/2020			<0.005		<0.005	
3/19/2020				0.00095 (J)		0.00066 (J)
3/24/2020	<0.005					
8/26/2020		<0.005				
9/22/2020	<0.005	<0.005				
9/23/2020				0.0011 (J)	<0.005	0.001 (J)
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				<0.005	<0.005	
3/2/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	0.00098 (J)
8/19/2021			<0.005	<0.005	<0.005	
8/20/2021		<0.005				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		0.0033 (J)				
2/9/2022				0.0031 (J)	0.0033 (J)	0.0037 (J)
2/10/2022	0.0016 (J)		0.0016 (J)			
8/30/2022	<0.005	0.0024 (J)		<0.005		0.0027 (J)
8/31/2022			<0.005		<0.005	
2/7/2023		<0.005		<0.005	<0.005	<0.005
2/8/2023			<0.005			
2/9/2023	<0.005					
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/20/2024	<0.005	0.0015 (J)		<0.005	<0.005	0.0019 (J)
2/23/2024			<0.005			
8/20/2024	<0.005		<0.005	0.00099 (J)	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	<0.005	<0.005			
7/25/2016	<0.005		<0.005		
7/26/2016		<0.005			
9/1/2016				<0.005	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	<0.005				
11/1/2016	<0.005	<0.005	<0.005		
11/16/2016				<0.005	
1/11/2017		<0.005	<0.005		
1/16/2017	<0.005				
2/21/2017	<0.005				
2/27/2017				<0.005	
3/1/2017			0.0004 (J)		
3/2/2017		<0.005			
4/26/2017	<0.005	<0.005	<0.005		
5/8/2017				0.0007 (J)	
6/28/2017		0.0007 (J)	0.0011 (J)		
6/30/2017	<0.005				
7/13/2017				0.0011 (J)	
10/11/2017				0.0011 (J)	
3/27/2018	<0.005				
3/28/2018		<0.005	<0.005		
4/4/2018				0.00087 (J)	
6/7/2018		<0.005			
6/8/2018			<0.005		
6/11/2018	<0.005				
9/19/2018				0.0012 (J)	
10/1/2018		<0.005	<0.005		
10/2/2018	<0.005				
2/26/2019	<0.005				
2/27/2019		<0.005	<0.005		
4/1/2019	<0.005	<0.005	<0.005		
8/21/2019				0.00074 (J)	
9/25/2019	<0.005	<0.005	<0.005		
10/9/2019				<0.005	
2/11/2020			0.0041 (J)		
2/12/2020	0.0032 (J)	0.0038 (J)			
3/17/2020				<0.005	
3/19/2020	<0.005	<0.005	<0.005		
7/6/2020				0.00079 (J)	
8/27/2020					<0.005
8/28/2020				0.0015 (J)	
9/22/2020					<0.005
9/23/2020		<0.005	<0.005	0.00091 (J)	
9/24/2020	<0.005				
10/7/2020				0.001 (J)	<0.005
11/12/2020				0.0014 (J)	<0.005
2/10/2021		0.00094 (J)	0.00078 (J)		
2/11/2021	<0.005				
3/1/2021	<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.0016 (J)	
3/3/2021		<0.005	<0.005		
8/19/2021	<0.005	<0.005			
8/20/2021					<0.005
8/27/2021			<0.005	0.0022 (J)	
2/9/2022		0.002 (J)	0.0018 (J)	<0.005	<0.005
2/11/2022	0.0014 (J)				
8/31/2022	<0.005	0.0028 (J)	<0.005	<0.005	<0.005
2/8/2023	<0.005	0.003 (J)	0.0024 (J)		
2/10/2023				<0.005	<0.005
8/15/2023		<0.005		<0.005	<0.005
8/16/2023	<0.005		<0.005		
2/20/2024	<0.005	0.0027 (J)	0.0013 (J)		
2/21/2024				0.0024 (J)	0.0044 (J)
8/20/2024	<0.005	<0.005	<0.005		
8/21/2024				0.002 (J)	
8/22/2024					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.028	0.019
6/7/2016				0.012		
7/27/2016				0.0126	0.0294	0.0167
8/30/2016	0.0413					
8/31/2016		0.126	0.0754			
9/16/2016				0.0127		0.0168
9/19/2016					0.0247	
11/3/2016				0.0128	0.0248	0.0159
11/14/2016	0.0383		0.0701			
11/15/2016		0.115				
1/11/2017				0.0142	0.0266	0.0162
2/24/2017	0.0351					
2/27/2017			0.0834			
2/28/2017		0.121				
3/1/2017					0.0275	0.0195
3/2/2017				0.0155		
4/26/2017					0.024	0.0182
5/2/2017				0.0138		
5/8/2017	0.0251	0.125				
5/9/2017			0.0779			
6/28/2017					0.0237	0.018
6/29/2017				0.0128		
7/11/2017	0.0233					
7/13/2017		0.106	0.0719			
10/10/2017	0.0207	0.112	0.0708			
3/28/2018				0.014	0.024	0.021
4/2/2018	0.022					
4/3/2018			0.068			
4/4/2018		0.12				
6/7/2018					0.023	
6/11/2018				0.013		0.019
9/19/2018	0.023	0.11	0.064			
9/25/2018				0.014	0.023	0.019
3/5/2019				0.015		0.02
3/6/2019					0.024	
4/2/2019				0.016		
4/3/2019					0.025	0.017
8/20/2019	0.024	0.1	0.057			
9/25/2019				0.015		
9/26/2019					0.021	0.017
10/8/2019	0.025	0.098				
10/9/2019			0.058			
2/11/2020				0.015	0.022	0.019
3/17/2020	0.035	0.099	0.061			
3/24/2020				0.015	0.021	0.017
8/27/2020	0.027	0.086				
8/28/2020			0.053			
9/22/2020	0.026	0.096				
9/23/2020			0.052	0.015	0.021	0.016
2/9/2021					0.023	0.017
3/1/2021	0.029	0.087	0.055			
3/3/2021				0.017	0.023	0.017

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	0.029	0.089	0.055			
8/26/2021						0.015
8/27/2021				0.016	0.02	
2/8/2022	0.03					
2/9/2022		0.083	0.053	0.017	0.021	0.014
8/30/2022				0.017	0.017	0.012
8/31/2022	0.029	0.073	0.052			
2/7/2023				0.017	0.019	0.012
2/8/2023	0.031	0.081				
2/9/2023			0.049			
8/15/2023	0.032	0.084	0.049	0.016	0.02	0.012
2/20/2024	0.031			0.017	0.02	
2/21/2024		0.069	0.048			
2/23/2024						0.013
8/20/2024	0.031			0.016	0.019	
8/21/2024		0.069	0.054			0.015

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.013	0.0084
6/7/2016	0.014	0.0058				
7/26/2016					0.0158	0.01
7/27/2016	0.0141					
7/28/2016		0.0068 (J)				
9/14/2016					0.0143	0.0085 (J)
9/19/2016	0.0155	0.0071 (J)				
11/2/2016	0.0157				0.0148	0.0091 (J)
11/3/2016		0.0092 (J)				
1/12/2017						0.0089 (J)
1/13/2017	0.0158	0.0105			0.0146	
3/6/2017	0.0163	0.0105			0.0141	
3/7/2017						0.009 (J)
4/26/2017	0.0177	0.011				
5/1/2017					0.0149	0.0083 (J)
6/27/2017						0.0074 (J)
6/29/2017	0.017	0.0109			0.0154	
10/11/2017			0.0092 (J)			
10/12/2017				0.0328		
11/20/2017			0.0081 (J)	0.0671		
1/10/2018				0.0656		
1/11/2018			0.0077 (J)			
2/19/2018				0.0598		
2/20/2018			<0.01			
3/29/2018	0.014	<0.01			0.014	<0.01
4/3/2018			<0.01	0.045		
6/5/2018		0.011				
6/6/2018	0.015					0.008 (J)
6/7/2018					0.014	
6/28/2018			0.0078 (J)	0.047		
8/7/2018			0.0078 (J)	0.048		
9/24/2018			0.0071 (J)	0.042		
9/25/2018	0.015	0.011				
9/26/2018					0.02	0.0075 (J)
3/4/2019					0.016	0.0077 (J)
3/5/2019	0.016	0.011				
4/2/2019		0.011				
4/3/2019	0.018				0.017	0.0087 (J)
8/21/2019			0.015	0.035		
9/24/2019		0.011				0.0075 (J)
9/25/2019	0.014				0.015	
10/9/2019			0.013	0.036		
2/12/2020	0.014	0.011	0.011	0.035	0.012	0.0079 (J)
3/24/2020	0.015	0.011		0.033		0.0076 (J)
3/25/2020			0.014		0.016	
9/22/2020					0.013	0.0076 (J)
9/24/2020	0.015	0.01	0.016	0.028		
2/8/2021						0.0079 (J)
2/9/2021	0.015	0.011			0.013	
2/10/2021			0.027	0.032		
3/2/2021						0.014
3/3/2021	0.015				0.014	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.011	0.028	0.032		
8/26/2021			0.038		0.012	0.0092
8/27/2021	0.013					
9/1/2021		0.0099				
9/3/2021				0.035		
2/8/2022			0.041	0.039		
2/9/2022	0.014	0.011				
2/10/2022						0.0084
2/11/2022					0.013	
8/30/2022		0.0085				0.0079
8/31/2022	0.011		0.035	0.035	0.013	
2/7/2023	0.014	0.01	0.03			0.0075
2/8/2023				0.037		
2/9/2023					0.014	
8/15/2023	0.012	0.0075	0.031	0.034	0.011	0.0074
2/20/2024	0.013	0.0065	0.029	0.033	0.014	0.0078
8/20/2024	0.012	0.0083			0.012	0.0066
8/21/2024			0.03	0.033		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		0.032				
9/11/2007		0.017				
3/20/2008		0.025				
8/27/2008		0.041				
3/3/2009		0.053				
11/18/2009		0.05				
3/3/2010		0.061				
9/8/2010		0.071				
3/10/2011		0.057				
9/8/2011		0.057				
3/5/2012		0.061				
9/10/2012		0.055				
2/6/2013		0.061				
8/12/2013		0.055				
2/5/2014		0.063				
8/5/2014		0.038				
2/4/2015		0.039				
8/3/2015		0.031				
2/16/2016		0.045				
6/1/2016				0.008	0.012	
6/2/2016	0.019		0.0081			
7/25/2016					0.0091 (J)	
7/26/2016	0.0179		0.0082 (J)	0.006 (J)		
8/31/2016		0.0542				
9/13/2016				0.0084 (J)	0.008 (J)	
9/14/2016	0.0181					0.0037 (J)
9/15/2016			0.0087 (J)			
11/1/2016				0.0062 (J)		
11/2/2016			0.0082 (J)			
11/4/2016	0.0165				0.0067 (J)	0.0059 (J)
11/28/2016		0.0529				
12/15/2016						0.0056 (J)
1/10/2017			0.0086 (J)			
1/11/2017				0.0069 (J)		
1/12/2017	0.0199					
1/16/2017					0.0096 (J)	0.0049 (J)
2/22/2017		0.0607				
3/2/2017				0.0071 (J)	0.0112	
3/3/2017						0.0046 (J)
3/7/2017	0.0196					
3/8/2017			0.0088 (J)			
4/26/2017			0.0085 (J)			
4/27/2017				0.0064 (J)	0.0106	
4/28/2017						0.0039 (J)
5/2/2017	0.0202					
5/8/2017		0.065				
5/26/2017						0.0034 (J)
6/27/2017	0.0184			0.0054 (J)	0.0092 (J)	
6/28/2017						0.003 (J)
6/30/2017			0.0081 (J)			
7/17/2017		0.06				
10/16/2017		0.0542				

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		0.0533				
3/27/2018			<0.01		<0.01	
3/28/2018						<0.01
3/29/2018	0.021			<0.01		
6/5/2018				0.0069 (J)		
6/6/2018					0.0082 (J)	
6/7/2018	0.019					0.0037 (J)
6/8/2018			0.007 (J)			
8/6/2018		0.044				
9/26/2018	0.019					
10/1/2018			0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)
2/25/2019		0.045				
2/26/2019			0.0067 (J)			
2/27/2019				0.0074 (J)	0.008 (J)	0.0035 (J)
3/4/2019	0.019					
3/28/2019				0.0082 (J)	0.0082 (J)	
3/29/2019			0.0066 (J)			0.0039 (J)
4/3/2019	0.023					
6/12/2019		0.063				
8/19/2019		0.065				
9/24/2019	0.019			0.0072 (J)	0.0086 (J)	0.0038 (J)
9/25/2019			0.0071 (J)			
10/8/2019		0.058				
2/10/2020				0.0066 (J)	0.0091 (J)	
2/11/2020						0.0036 (J)
2/12/2020	0.021		0.007 (J)			
3/17/2020		0.047				
3/18/2020			0.0076 (J)		0.0084 (J)	
3/19/2020				0.0076 (J)		0.0036 (J)
3/24/2020	0.021					
8/26/2020		0.044				
9/22/2020	0.019	0.045				
9/23/2020				0.0068 (J)	0.0079 (J)	0.0039 (J)
9/25/2020			0.0073 (J)			
2/8/2021	0.02					
2/10/2021			0.0078 (J)			0.0032 (J)
2/12/2021				0.0057 (J)	0.009 (J)	
3/2/2021	0.019	0.039	0.0076			
3/3/2021				0.0068	0.0094	0.0041 (J)
8/19/2021			0.0077	0.0065	0.0079	
8/20/2021		0.036				
8/26/2021	0.019					
8/27/2021						0.003 (J)
2/8/2022		0.037				
2/9/2022				0.0067	0.0088	0.0029 (J)
2/10/2022	0.02		0.0088			
8/30/2022	0.017	0.031		0.0066		0.003 (J)
8/31/2022			0.0075		0.0074	
2/7/2023		0.034		0.14	0.21	0.0026 (J)
2/8/2023			0.0089			
2/9/2023	0.019					
8/15/2023	0.018	0.03	0.0079	0.0059	0.0078	0.0031 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/20/2024	0.019	0.035		0.0062	0.004 (J)	0.0044 (J)
2/23/2024			0.0096			
8/20/2024	0.018		0.0075	0.0061	0.0072	0.0033 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.0038		
6/2/2016	0.0064	0.01			
7/25/2016	0.0071 (J)		0.0031 (J)		
7/26/2016		0.0088 (J)			
9/1/2016				0.0414	
9/14/2016			0.0027 (J)		
9/15/2016		0.009 (J)			
9/19/2016	0.0069 (J)				
11/1/2016	0.007 (J)	0.0079 (J)	0.0027 (J)		
11/16/2016				0.0365	
1/11/2017		0.0075 (J)	0.0036 (J)		
1/16/2017	0.0071 (J)				
2/21/2017	0.0077 (J)				
2/27/2017				0.0326	
3/1/2017			0.0036 (J)		
3/2/2017		0.009 (J)			
4/26/2017	0.0074 (J)	0.0078 (J)	0.0038 (J)		
5/8/2017				0.0332	
6/28/2017		0.0071 (J)	0.004 (J)		
6/30/2017	0.0076 (J)				
7/13/2017				0.0365	
10/11/2017				0.0288	
3/27/2018	<0.01				
3/28/2018		<0.01	<0.01		
4/4/2018				0.025	
6/7/2018		0.0068 (J)			
6/8/2018			0.0034 (J)		
6/11/2018	0.007 (J)				
9/19/2018				0.03	
10/1/2018		0.0065 (J)	0.0034 (J)		
10/2/2018	0.0069 (J)				
2/26/2019	0.007 (J)				
2/27/2019		0.0059 (J)	0.0034 (J)		
4/1/2019	0.0072 (J)	0.0064 (J)	0.003 (J)		
8/21/2019				0.023	
9/25/2019	0.0066 (J)	0.0059 (J)	0.005 (J)		
10/9/2019				0.024	
2/11/2020			0.0031 (J)		
2/12/2020	0.0073 (J)	0.0062 (J)			
3/17/2020				0.022	
3/19/2020	0.0074 (J)	0.0072 (J)	0.0029 (J)		
7/6/2020				0.048	
8/27/2020					0.021
8/28/2020				0.05	
9/22/2020					0.021
9/23/2020		0.0051 (J)	0.0039 (J)	0.045	
9/24/2020	0.0062 (J)				
10/7/2020				0.042	0.019
11/12/2020				0.042	0.019
2/10/2021		0.0059 (J)	0.0029 (J)		
2/11/2021	0.0077 (J)				
3/1/2021	0.007				0.019

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.044	
3/3/2021		0.0064	0.0031 (J)		
8/19/2021	0.0071	0.0052			
8/20/2021					0.019
8/27/2021			0.0039 (J)	0.043	
2/9/2022		0.0051	0.0031 (J)	0.042	0.018
2/11/2022	0.0077				
8/31/2022	0.0068	0.0048 (J)	0.003 (J)	0.036	0.017
2/8/2023	0.0066	0.0048 (J)	0.0029 (J)		
2/10/2023				0.041	0.016
8/15/2023		0.0046 (J)		0.04	0.019
8/16/2023	0.0066		0.0037 (J)		
2/20/2024	0.0064	0.0045 (J)	0.0032 (J)		
2/21/2024				0.044	0.018
8/20/2024	0.0067	0.0044 (J)	0.0027 (J)		
8/21/2024				0.048	
8/22/2024					0.018

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.0005	<0.0005
6/7/2016				<0.0005		
7/27/2016				<0.0005	<0.0005	<0.0005
8/30/2016	<0.0005					
8/31/2016		<0.0005	<0.0005			
9/16/2016				<0.0005		<0.0005
9/19/2016					<0.0005	
11/3/2016				<0.0005	<0.0005	<0.0005
11/14/2016	<0.0005		<0.0005			
11/15/2016		<0.0005				
1/11/2017				<0.0005	<0.0005	<0.0005
2/24/2017	<0.0005					
2/27/2017			<0.0005			
2/28/2017		<0.0005				
3/1/2017					<0.0005	<0.0005
3/2/2017				8E-05 (J)		
4/26/2017					<0.0005	<0.0005
5/2/2017				<0.0005		
5/8/2017	7E-05 (J)	<0.0005				
5/9/2017			<0.0005			
6/28/2017					<0.0005	<0.0005
6/29/2017				<0.0005		
7/11/2017	<0.0005					
7/13/2017		<0.0005	<0.0005			
10/10/2017	<0.0005	<0.0005	<0.0005			
3/28/2018				<0.0005	<0.0005	<0.0005
4/2/2018	<0.0005					
4/3/2018			<0.0005			
4/4/2018		<0.0005				
6/7/2018					<0.0005	
6/11/2018				9E-05 (J)		5.7E-05 (J)
9/19/2018	5.7E-05 (J)	<0.0005	<0.0005			
9/25/2018				8.9E-05 (J)	<0.0005	8.2E-05 (J)
3/5/2019				9.1E-05 (J)		7.9E-05 (J)
3/6/2019					<0.0005	
4/2/2019				9E-05 (J)		
4/3/2019					<0.0005	7.5E-05 (J)
8/20/2019	<0.0005	<0.0005	<0.0005			
9/25/2019				8.1E-05 (J)		
9/26/2019					<0.0005	8.4E-05 (J)
2/11/2020				7.8E-05 (J)	<0.0005	7.6E-05 (J)
3/24/2020				8E-05 (J)	<0.0005	8.9E-05 (J)
8/27/2020	4.7E-05 (J)	<0.0005				
8/28/2020			<0.0005			
9/22/2020	<0.0005	<0.0005				
9/23/2020			<0.0005	8.1E-05 (J)	<0.0005	8.8E-05 (J)
2/9/2021					<0.0005	9.8E-05 (J)
3/1/2021	5.5E-05 (J)	<0.0005	<0.0005			
3/3/2021				9.9E-05 (J)	<0.0005	0.00011 (J)
8/19/2021	<0.0005	<0.0005	<0.0005			
8/26/2021						9.3E-05 (J)
8/27/2021				0.0001 (J)	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/8/2022	5.6E-05 (J)					
2/9/2022		<0.0005	<0.0005	0.00011 (J)	<0.0005	8.9E-05 (J)
8/30/2022				0.0001 (J)	<0.0005	8.2E-05 (J)
8/31/2022	<0.0005	<0.0005	<0.0005			
2/7/2023				9.6E-05 (J)	<0.0005	7.1E-05 (J)
2/8/2023	<0.0005	<0.0005				
2/9/2023			<0.0005			
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	5.7E-05 (J)
2/20/2024	<0.0005			0.0001 (J)	<0.0005	
2/21/2024		<0.0005	<0.0005			
2/23/2024						<0.0005
8/20/2024	<0.0005			0.0001 (J)	<0.0005	
8/21/2024		<0.0005	<0.0005			<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.0005	<0.0005
6/7/2016	<0.0005	<0.0005				
7/26/2016					<0.0005	<0.0005
7/27/2016	<0.0005					
7/28/2016		<0.0005				
9/14/2016					<0.0005	<0.0005
9/19/2016	<0.0005	<0.0005				
11/2/2016	<0.0005				<0.0005	<0.0005
11/3/2016		<0.0005				
1/12/2017						<0.0005
1/13/2017	<0.0005	<0.0005			<0.0005	
3/6/2017	<0.0005	<0.0005			<0.0005	
3/7/2017						<0.0005
4/26/2017	<0.0005	<0.0005				
5/1/2017					<0.0005	<0.0005
6/27/2017						<0.0005
6/29/2017	<0.0005	<0.0005			<0.0005	
10/11/2017			<0.0005			
10/12/2017				0.0002 (J)		
11/20/2017			<0.0005	0.0003 (J)		
1/10/2018				0.0003 (J)		
1/11/2018			<0.0005			
2/19/2018				<0.0005		
2/20/2018			<0.0005			
3/29/2018	<0.0005	<0.0005			<0.0005	<0.0005
4/3/2018			<0.0005	<0.0005		
6/5/2018		<0.0005				
6/6/2018	8E-05 (J)					<0.0005
6/7/2018					<0.0005	
6/28/2018			<0.0005	0.00029 (J)		
8/7/2018			<0.0005	0.00024 (J)		
9/24/2018			<0.0005	0.00019 (J)		
9/25/2018	6.1E-05 (J)	<0.0005				
9/26/2018					<0.0005	<0.0005
3/4/2019					<0.0005	<0.0005
3/5/2019	0.00011 (J)	<0.0005				
4/2/2019		<0.0005				
4/3/2019	6.4E-05 (J)				<0.0005	<0.0005
8/21/2019			<0.0005	0.0002 (J)		
9/24/2019		<0.0005				<0.0005
9/25/2019	<0.0005				<0.0005	
10/9/2019			<0.0005	0.0002 (J)		
2/12/2020	7.8E-05 (J)	<0.0005	<0.0005	0.00018 (J)	<0.0005	<0.0005
3/24/2020	7.6E-05 (J)	<0.0005		0.00022 (J)		<0.0005
3/25/2020			<0.0005		<0.0005	
9/22/2020					<0.0005	<0.0005
9/24/2020	8.3E-05 (J)	<0.0005	<0.0005	0.0002 (J)		
2/8/2021						<0.0005
2/9/2021	6.8E-05 (J)	<0.0005			<0.0005	
2/10/2021			5.1E-05 (J)	0.00021 (J)		
3/2/2021						<0.0005
3/3/2021	6.8E-05 (J)				<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		<0.0005	<0.0005	0.00021 (J)		
8/26/2021			<0.0005		<0.0005	<0.0005
8/27/2021	5.9E-05 (J)					
9/1/2021		<0.0005				
9/3/2021				0.00024 (J)		
2/8/2022			<0.0005	0.00028 (J)		
2/9/2022	7.7E-05 (J)	<0.0005				
2/10/2022						<0.0005
2/11/2022					<0.0005	
8/30/2022		<0.0005				<0.0005
8/31/2022	<0.0005		<0.0005	0.00025 (J)	<0.0005	
2/7/2023	7.4E-05 (J)	<0.0005	<0.0005			<0.0005
2/8/2023				0.00026 (J)		
2/9/2023					<0.0005	
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005	0.00025 (J)	<0.0005	<0.0005
8/20/2024	<0.0005	<0.0005			<0.0005	<0.0005
8/21/2024			<0.0005	0.00023 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.0005				
9/11/2007		<0.0005				
3/20/2008		<0.0005				
8/27/2008		<0.0005				
3/3/2009		<0.0005				
11/18/2009		<0.0005				
3/3/2010		<0.0005				
9/8/2010		<0.0005				
3/10/2011		<0.0005				
9/8/2011		<0.0005				
3/5/2012		<0.0005				
9/10/2012		<0.0005				
2/6/2013		<0.0005				
8/12/2013		<0.0005				
2/5/2014		<0.0005				
8/5/2014		<0.0005				
2/4/2015		<0.0005				
8/3/2015		<0.0005				
2/16/2016		<0.0005				
6/1/2016				<0.0005	<0.0005	
6/2/2016	<0.0005		<0.0005			
7/25/2016					<0.0005	
7/26/2016	<0.0005		0.0002 (J)	<0.0005		
8/31/2016		<0.0005				
9/13/2016				<0.0005	<0.0005	
9/14/2016	<0.0005					<0.0005
9/15/2016			0.0002 (J)			
11/1/2016				<0.0005		
11/2/2016			0.0002 (J)			
11/4/2016	<0.0005				<0.0005	<0.0005
11/28/2016		<0.0005				
12/15/2016						<0.0005
1/10/2017			0.0002 (J)			
1/11/2017				<0.0005		
1/12/2017	<0.0005					
1/16/2017					<0.0005	<0.0005
2/22/2017		<0.0005				
3/2/2017				<0.0005	<0.0005	
3/3/2017						<0.0005
3/7/2017	<0.0005					
3/8/2017			0.0002 (J)			
4/26/2017			0.0002 (J)			
4/27/2017				<0.0005	<0.0005	
4/28/2017						<0.0005
5/2/2017	<0.0005					
5/8/2017		<0.0005				
5/26/2017						<0.0005
6/27/2017	<0.0005			<0.0005	<0.0005	
6/28/2017						<0.0005
6/30/2017			0.0002 (J)			
7/17/2017		<0.0005				
10/16/2017		<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.0005				
3/27/2018			<0.0005		<0.0005	
3/28/2018						<0.0005
3/29/2018	<0.0005			<0.0005		
6/7/2018	<0.0005					
8/6/2018		<0.0005				
9/26/2018	<0.0005					
2/25/2019		<0.0005				
2/26/2019			0.00016 (J)			
2/27/2019				<0.0005	<0.0005	<0.0005
3/4/2019	<0.0005					
3/28/2019				<0.0005	<0.0005	
3/29/2019			0.00017 (J)			<0.0005
4/3/2019	<0.0005					
6/12/2019		<0.0005				
8/19/2019		<0.0005				
9/24/2019	<0.0005			<0.0005	<0.0005	<0.0005
9/25/2019			0.00018 (J)			
10/8/2019		<0.0005				
2/10/2020				<0.0005	<0.0005	
2/11/2020						<0.0005
2/12/2020	<0.0005		0.00019 (J)			
3/17/2020		<0.0005				
3/18/2020			0.00021 (J)		<0.0005	
3/19/2020				<0.0005		<0.0005
3/24/2020	<0.0005					
8/26/2020		<0.0005				
9/22/2020	<0.0005	<0.0005				
9/23/2020				<0.0005	<0.0005	<0.0005
9/25/2020			0.00018 (J)			
2/8/2021	<0.0005					
2/10/2021			0.00019 (J)			<0.0005
2/12/2021				<0.0005	<0.0005	
3/2/2021	<0.0005	<0.0005	0.00018 (J)			
3/3/2021				<0.0005	<0.0005	<0.0005
8/19/2021			0.00022 (J)	<0.0005	<0.0005	
8/20/2021		<0.0005				
8/26/2021	<0.0005					
8/27/2021						<0.0005
2/8/2022		<0.0005				
2/9/2022				<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005		0.00025 (J)			
8/30/2022	<0.0005	<0.0005		<0.0005		<0.0005
8/31/2022			0.0002 (J)		<0.0005	
2/7/2023		<0.0005		0.0011	0.00054	<0.0005
2/8/2023			0.00022 (J)			
2/9/2023	<0.0005					
8/15/2023	<0.0005	<0.0005	0.00018 (J)	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
2/23/2024			0.00024 (J)			
8/20/2024	<0.0005		0.00021 (J)	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.0005		
6/2/2016	<0.0005	<0.0005			
7/25/2016	<0.0005		<0.0005		
7/26/2016		<0.0005			
9/1/2016				<0.0005	
9/14/2016			<0.0005		
9/15/2016		<0.0005			
9/19/2016	<0.0005				
11/1/2016	<0.0005	<0.0005	<0.0005		
11/16/2016				<0.0005	
1/11/2017		<0.0005	<0.0005		
1/16/2017	<0.0005				
2/21/2017	<0.0005				
2/27/2017				<0.0005	
3/1/2017			<0.0005		
3/2/2017		<0.0005			
4/26/2017	<0.0005	<0.0005	<0.0005		
5/8/2017				<0.0005	
6/28/2017		<0.0005	<0.0005		
6/30/2017	<0.0005				
7/13/2017				<0.0005	
10/11/2017				<0.0005	
3/27/2018	<0.0005				
3/28/2018		<0.0005	<0.0005		
4/4/2018				<0.0005	
9/19/2018				<0.0005	
2/26/2019	7.2E-05 (J)				
2/27/2019		<0.0005	<0.0005		
4/1/2019	<0.0005	<0.0005	<0.0005		
8/21/2019				<0.0005	
9/25/2019	<0.0005	<0.0005	<0.0005		
2/11/2020			<0.0005		
2/12/2020	<0.0005	<0.0005			
3/19/2020	<0.0005	<0.0005	<0.0005		
7/6/2020				<0.0005	
8/27/2020					<0.0005
8/28/2020				<0.0005	
9/22/2020					<0.0005
9/23/2020		<0.0005	5.9E-05 (J)	<0.0005	
9/24/2020	<0.0005				
10/7/2020				<0.0005	<0.0005
11/12/2020				<0.0005	<0.0005
2/10/2021		<0.0005	<0.0005		
2/11/2021	4.7E-05 (J)				
3/1/2021	<0.0005				<0.0005
3/2/2021				<0.0005	
3/3/2021		<0.0005	<0.0005		
8/19/2021	<0.0005	<0.0005			
8/20/2021					<0.0005
8/27/2021			<0.0005	<0.0005	
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005
2/11/2022	<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/8/2023	<0.0005	<0.0005	<0.0005		
2/10/2023				<0.0005	<0.0005
8/15/2023		<0.0005		<0.0005	<0.0005
8/16/2023	<0.0005		<0.0005		
2/20/2024	<0.0005	<0.0005	<0.0005		
2/21/2024				<0.0005	<0.0005
8/20/2024	<0.0005	<0.0005	<0.0005		
8/21/2024				<0.0005	
8/22/2024					<0.0005

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.04	<0.04
6/7/2016				<0.04		
7/27/2016				0.008 (J)	<0.04	0.0059 (J)
8/30/2016	0.0166 (J)					
8/31/2016		0.541	0.308			
9/16/2016				0.0086 (J)		0.0079 (J)
9/19/2016					<0.04	
11/3/2016				0.0077 (J)	<0.04	0.0082 (J)
11/14/2016	0.0166 (J)		0.368			
11/15/2016		0.706				
1/11/2017				0.0092 (J)	<0.04	0.0096 (J)
2/24/2017	0.0145 (J)					
2/27/2017			0.321			
2/28/2017		0.623				
3/1/2017					<0.04	<0.04
3/2/2017				0.0095 (J)		
4/26/2017					<0.04	0.0091 (J)
5/2/2017				<0.04		
5/8/2017	0.0141 (J)	0.69				
5/9/2017			0.338			
6/28/2017					<0.04	0.0079 (J)
6/29/2017				0.0074 (J)		
7/11/2017	0.0131 (J)					
7/13/2017		0.649	0.34			
10/4/2017				0.0077 (J)		0.009 (J)
10/5/2017					<0.04	
10/10/2017	0.0124 (J)	0.603	0.319			
4/2/2018	0.013 (J)					
4/3/2018			0.35			
4/4/2018		0.66				
6/7/2018					<0.04	
6/11/2018				0.01 (J)		0.0093 (J)
9/19/2018	0.012 (J)	0.66	0.35			
9/25/2018				0.0096 (J)	0.0046 (J)	0.007 (J)
3/27/2019	0.013 (J)	0.57	0.33			
4/2/2019				0.0066 (J)		
4/3/2019					<0.04	0.0053 (J)
9/25/2019				0.0081 (J)		
9/26/2019					0.0062 (J)	0.0072 (J)
10/8/2019	0.012 (J)	0.58				
10/9/2019			0.35			
3/17/2020	0.023 (J)	0.61	0.37			
3/24/2020				0.0092 (J)	0.0054 (J)	0.01 (J)
9/22/2020	0.0076 (J)	0.59				
9/23/2020			0.32	0.0066 (J)	0.021 (J)	0.006 (J)
3/1/2021	0.013 (J)	0.54	0.32			
3/3/2021				0.01 (J)	<0.04	0.0094 (J)
8/19/2021	0.011 (J)	0.56	0.31			
8/26/2021						<0.04
8/27/2021				0.011 (J)	<0.04	
2/8/2022	0.015 (J)					
2/9/2022		0.58	0.34	0.0098 (J)	<0.04	<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				0.013 (J)	<0.04	0.014 (J)
8/31/2022	0.0091 (J)	0.54	0.33			
2/7/2023				0.014 (J)	<0.04	<0.04
2/8/2023	0.011 (J)	0.59				
2/9/2023			0.35			
8/15/2023	<0.04	0.6	0.36	<0.04	<0.04	<0.04
2/20/2024	0.023 (J)			<0.04	<0.04	
2/21/2024		0.51	0.3			
2/23/2024						0.018 (J)
8/20/2024	<0.04			<0.04	<0.04	
8/21/2024		0.49	0.31			<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.04	<0.04
6/7/2016	<0.04	<0.04				
7/26/2016					0.0047 (J)	0.0052 (J)
7/27/2016	<0.04					
7/28/2016		<0.04				
9/14/2016					<0.04	0.0071 (J)
9/19/2016	<0.04	<0.04				
11/2/2016	<0.04				<0.04	<0.04
11/3/2016		<0.04				
1/12/2017						0.0076 (J)
1/13/2017	<0.04	<0.04			<0.04	
3/6/2017	<0.04	<0.04			<0.04	
3/7/2017						0.0089 (J)
4/26/2017	<0.04	<0.04				
5/1/2017					<0.04	0.0061 (J)
6/27/2017						0.0079 (J)
6/29/2017	<0.04	<0.04			<0.04	
10/3/2017		<0.04				0.0094 (J)
10/4/2017	<0.04					
10/5/2017					<0.04	
10/11/2017			0.0135 (J)			
10/12/2017				0.0401		
11/20/2017			0.0251 (J)	0.156		
1/10/2018				0.15		
1/11/2018			0.0255 (J)			
2/19/2018				0.146		
2/20/2018			<0.04			
4/3/2018			0.033 (J)	0.12		
6/5/2018		0.0092 (J)				
6/6/2018	0.0049 (J)					0.0098 (J)
6/7/2018					0.0045 (J)	
6/28/2018			0.053	0.16		
8/7/2018			0.024 (J)	0.12		
9/24/2018			0.028 (J)	0.099		
9/25/2018	<0.04	0.0054 (J)				
9/26/2018					0.005 (J)	0.01 (J)
3/26/2019				0.096		
3/27/2019			0.017 (J)			
4/2/2019		0.011 (J)				
4/3/2019	<0.04				0.0055 (J)	0.0076 (J)
9/24/2019		0.018 (J)				0.01 (J)
9/25/2019	<0.04				<0.04	
10/9/2019			0.017 (J)	0.079		
3/24/2020	<0.04	0.016 (J)		0.088 (J)		0.011 (J)
3/25/2020			0.043 (J)		0.011 (J)	
9/22/2020					<0.04	0.0079 (J)
9/24/2020	0.0094 (J)	0.013 (J)	0.037 (J)	0.087 (J)		
3/2/2021						0.0068 (J)
3/3/2021	<0.04				0.0056 (J)	
3/4/2021		0.0079 (J)	0.033 (J)	0.078		
8/26/2021			0.095		<0.04	0.009 (J)
8/27/2021	<0.04					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		<0.04				
9/3/2021				0.077		
2/8/2022			0.13	0.074		
2/9/2022	<0.04	<0.04				
2/10/2022						0.011 (J)
2/11/2022					<0.04	
8/30/2022		0.012 (J)				0.0098 (J)
8/31/2022	<0.04		0.14	0.062	<0.04	
2/7/2023	<0.04	<0.04	0.13			<0.04
2/8/2023				0.057		
2/9/2023					<0.04	
8/15/2023	<0.04	0.046 (J)	0.15 (J)	0.052 (J)	<0.04	<0.04
2/20/2024	<0.04	<0.04	0.12	0.056	<0.04	<0.04
8/20/2024	<0.04	<0.04			<0.04	<0.04
8/21/2024			0.13	0.061		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				<0.04	<0.04	
6/2/2016	<0.04		<0.04			
7/25/2016					<0.04	
7/26/2016	<0.04		0.0177 (J)	0.0055 (J)		
8/31/2016		0.0315 (J)				
9/13/2016				<0.04	<0.04	
9/14/2016	0.01 (J)					<0.04
9/15/2016			0.0214 (J)			
11/1/2016				0.0086 (J)		
11/2/2016			<0.04			
11/4/2016	<0.04				<0.04	<0.04
11/28/2016		0.0095 (J)				
12/15/2016						0.0107 (J)
1/10/2017			0.0198 (J)			
1/11/2017				0.0074 (J)		
1/12/2017	<0.04					
1/16/2017					<0.04	<0.04
2/22/2017		<0.04				
3/2/2017				0.008 (J)	<0.04	
3/3/2017						<0.04
3/7/2017	<0.04					
3/8/2017			0.0189 (J)			
4/26/2017			0.0161 (J)			
4/27/2017				0.0066 (J)	<0.04	
4/28/2017						<0.04
5/2/2017	<0.04					
5/8/2017		0.0084 (J)				
5/26/2017						<0.04
6/27/2017	<0.04			0.0087 (J)	0.006 (J)	
6/28/2017						<0.04
6/30/2017			0.0173 (J)			
7/17/2017		0.0092 (J)				
10/3/2017	<0.04			0.0072 (J)	0.0071 (J)	<0.04
10/5/2017			0.0173 (J)			
10/16/2017		<0.04				
2/19/2018		<0.04				
6/5/2018				0.0052 (J)		
6/6/2018					<0.04	
6/7/2018	<0.04					<0.04
6/8/2018			0.013 (J)			
8/6/2018		<0.04				
9/26/2018	0.0057 (J)					
10/1/2018			0.015 (J)	0.021 (J)	0.0049 (J)	<0.04
2/25/2019		<0.04				
3/28/2019				0.005 (J)	<0.04	
3/29/2019			0.014 (J)			0.0065 (J)
4/3/2019	0.0044 (J)					
6/12/2019		<0.04				
9/24/2019	0.0049 (J)			0.0064 (J)	0.0055 (J)	0.0076 (J)
9/25/2019			0.018 (J)			
10/8/2019		<0.04				
3/17/2020		0.0051 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			0.02 (J)		0.0087 (J)	
3/19/2020				0.0085 (J)		0.0073 (J)
3/24/2020	0.0068 (J)					
9/22/2020	0.0053 (J)	0.0079 (J)				
9/23/2020				<0.04	<0.04	<0.04
9/25/2020			0.02 (J)			
3/2/2021	0.011 (J)	<0.04	0.017 (J)			
3/3/2021				<0.04	<0.04	<0.04
8/19/2021			0.018 (J)	<0.04	<0.04	
8/20/2021		<0.04				
8/26/2021	<0.04					
8/27/2021						<0.04
2/8/2022		<0.04				
2/9/2022				<0.04	<0.04	<0.04
2/10/2022	<0.04		0.02 (J)			
8/30/2022	<0.04	<0.04		<0.04		<0.04
8/31/2022			0.015 (J)		<0.04	
2/7/2023		<0.04		<0.04	<0.04	<0.04
2/8/2023			0.015 (J)			
2/9/2023	<0.04					
8/15/2023	<0.04	<0.04	0.017 (J)	<0.04	0.0094 (J)	<0.04
2/20/2024	<0.04	0.017 (J)		0.015 (J)	0.014 (J)	<0.04
2/23/2024			0.037 (J)			
8/20/2024	<0.04		0.014 (J)	<0.04	<0.04	<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.04		
6/2/2016	<0.04	<0.04			
7/25/2016	<0.04		<0.04		
7/26/2016		0.0097 (J)			
9/1/2016				2.12	
9/14/2016			<0.04		
9/15/2016		0.0102 (J)			
9/19/2016	<0.04				
11/1/2016	<0.04	<0.04	<0.04		
11/16/2016				2.03	
1/11/2017		<0.04	<0.04		
1/16/2017	<0.04				
2/21/2017	<0.04				
2/27/2017				1.29	
3/1/2017			<0.04		
3/2/2017		0.0084 (J)			
4/26/2017	<0.04	<0.04	<0.04		
5/8/2017				1.71	
6/28/2017		<0.04	<0.04		
6/30/2017	<0.04				
7/13/2017				1.62	
10/4/2017	<0.04	<0.04	<0.04		
10/11/2017				1.17	
4/4/2018				1.2	
6/7/2018		0.004 (J)			
6/8/2018			<0.04		
6/11/2018	0.014 (J)				
9/19/2018				1.2	
10/1/2018		<0.04	<0.04		
10/2/2018	<0.04				
3/27/2019				0.89	
4/1/2019	<0.04	<0.04	<0.04		
9/25/2019	<0.04	0.0054 (J)	<0.04		
10/9/2019				1.1	
3/17/2020				1.3	
3/19/2020	0.0052 (J)	0.0073 (J)	0.0053 (J)		
7/6/2020				2	
8/27/2020					0.014 (J)
8/28/2020				1.8	
9/22/2020					<0.04
9/23/2020		0.012 (J)	0.0073 (J)	2	
9/24/2020	0.0075 (J)				
10/7/2020				1.8	0.018 (J)
11/12/2020				1.8	0.012 (J)
3/1/2021	<0.04				0.015 (J)
3/2/2021				1.9	
3/3/2021		<0.04	<0.04		
8/19/2021	<0.04	<0.04			
8/20/2021					<0.04
8/27/2021			<0.04	1.9	
2/9/2022		0.01 (J)	<0.04	2.1	0.0089 (J)
2/11/2022	<0.04				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	<0.04	<0.04	<0.04	2.1	<0.04
2/8/2023	<0.04	<0.04	<0.04		
2/10/2023				2	<0.04
8/15/2023		<0.04		2.1	0.014 (J)
8/16/2023	<0.04		<0.04		
2/20/2024	<0.04	<0.04	<0.04		
2/21/2024				2.2	0.015 (J)
8/20/2024	<0.04	<0.04	<0.04		
8/21/2024				2.2	
8/22/2024					<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.0005	<0.0005
6/7/2016				<0.0005		
7/27/2016				<0.0005	<0.0005	<0.0005
8/30/2016	0.0001 (J)					
8/31/2016		<0.0005	<0.0005			
9/16/2016				<0.0005		<0.0005
9/19/2016					<0.0005	
11/3/2016				<0.0005	<0.0005	<0.0005
11/14/2016	0.0001 (J)		<0.0005			
11/15/2016		<0.0005				
1/11/2017				0.0001 (J)	<0.0005	0.0001 (J)
2/24/2017	9E-05 (J)					
2/27/2017			<0.0005			
2/28/2017		<0.0005				
3/1/2017					<0.0005	<0.0005
3/2/2017				<0.0005		
4/26/2017					<0.0005	<0.0005
5/2/2017				<0.0005		
5/8/2017	0.0001 (J)	<0.0005				
5/9/2017			<0.0005			
6/28/2017					<0.0005	<0.0005
6/29/2017				<0.0005		
7/11/2017	<0.0005					
7/13/2017		<0.0005	<0.0005			
10/10/2017	<0.0005	<0.0005	<0.0005			
3/28/2018				<0.0005	<0.0005	<0.0005
4/2/2018	<0.0005					
4/3/2018			<0.0005			
4/4/2018		<0.0005				
6/7/2018					<0.0005	
6/11/2018				<0.0005		<0.0005
9/19/2018	<0.0005	<0.0005	<0.0005			
9/25/2018				<0.0005	<0.0005	<0.0005
3/5/2019				<0.0005		<0.0005
3/6/2019					<0.0005	
4/2/2019				<0.0005		
4/3/2019					<0.0005	<0.0005
8/20/2019	<0.0005	<0.0005	<0.0005			
9/25/2019				<0.0005		
9/26/2019					<0.0005	<0.0005
10/8/2019	<0.0005	<0.0005				
10/9/2019			<0.0005			
2/11/2020				<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005	<0.0005	<0.0005			
3/24/2020				<0.0005	<0.0005	<0.0005
8/27/2020	<0.0005	<0.0005				
8/28/2020			<0.0005			
9/23/2020				<0.0005	<0.0005	<0.0005
2/9/2021					<0.0005	<0.0005
3/3/2021				<0.0005	<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005			
8/26/2021						<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/27/2021				<0.0005	<0.0005	
2/8/2022	<0.0005					
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/30/2022				<0.0005	<0.0005	<0.0005
8/31/2022	<0.0005	<0.0005	<0.0005			
2/7/2023				<0.0005	<0.0005	<0.0005
2/8/2023	0.00032 (J)	<0.0005				
2/9/2023			<0.0005			
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005			<0.0005	<0.0005	
2/21/2024		<0.0005	<0.0005			
2/23/2024						<0.0005
8/20/2024	<0.0005			<0.0005	<0.0005	
8/21/2024		<0.0005	<0.0005			<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.0005	<0.0005
6/7/2016	<0.0005	<0.0005				
7/26/2016					<0.0005	<0.0005
7/27/2016	<0.0005					
7/28/2016		<0.0005				
9/14/2016					<0.0005	<0.0005
9/19/2016	<0.0005	<0.0005				
11/2/2016	<0.0005				<0.0005	<0.0005
11/3/2016		<0.0005				
1/12/2017						<0.0005
1/13/2017	<0.0005	<0.0005			<0.0005	
3/6/2017	<0.0005	<0.0005			<0.0005	
3/7/2017						<0.0005
4/26/2017	<0.0005	<0.0005				
5/1/2017					<0.0005	<0.0005
6/27/2017						<0.0005
6/29/2017	<0.0005	<0.0005			<0.0005	
10/11/2017			<0.0005			
10/12/2017				<0.0005		
11/20/2017			<0.0005	<0.0005		
1/10/2018				<0.0005		
1/11/2018			<0.0005			
2/19/2018				<0.0005		
2/20/2018			<0.0005			
3/29/2018	<0.0005	<0.0005			<0.0005	<0.0005
4/3/2018			<0.0005	<0.0005		
6/5/2018		<0.0005				
6/6/2018	<0.0005					<0.0005
6/7/2018					<0.0005	
6/28/2018			<0.0005	<0.0005		
8/7/2018			<0.0005	<0.0005		
9/24/2018			<0.0005	<0.0005		
9/25/2018	<0.0005	9.6E-05 (J)				
9/26/2018					<0.0005	<0.0005
3/4/2019					<0.0005	<0.0005
3/5/2019	<0.0005	<0.0005				
4/2/2019		<0.0005				
4/3/2019	<0.0005				<0.0005	<0.0005
8/21/2019			<0.0005	<0.0005		
9/24/2019		<0.0005				<0.0005
9/25/2019	<0.0005				<0.0005	
10/9/2019			<0.0005	<0.0005		
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/24/2020	<0.0005	<0.0005		<0.0005		<0.0005
3/25/2020			<0.0005		<0.0005	
9/22/2020					<0.0005	<0.0005
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005		
2/8/2021						<0.0005
2/9/2021	<0.0005	0.00041 (J)			<0.0005	
2/10/2021			0.00019 (J)	<0.0005		
3/2/2021						<0.0005
3/3/2021	<0.0005				<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		<0.0005	0.0003 (J)	<0.0005		
8/26/2021			0.00049 (J)		<0.0005	<0.0005
8/27/2021	<0.0005					
9/1/2021		<0.0005				
9/3/2021				<0.0005		
2/8/2022			0.00063	<0.0005		
2/9/2022	<0.0005	<0.0005				
2/10/2022						<0.0005
2/11/2022					<0.0005	
8/30/2022		<0.0005				<0.0005
8/31/2022	<0.0005		0.00044 (J)	<0.0005	<0.0005	
2/7/2023	<0.0005	0.00012 (J)	0.00014 (J)			<0.0005
2/8/2023				<0.0005		
2/9/2023					<0.0005	
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/20/2024	<0.0005	<0.0005			0.00019 (J)	<0.0005
8/21/2024			<0.0005	<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.0005				
9/11/2007		<0.0005				
3/20/2008		<0.0005				
8/27/2008		<0.0005				
3/3/2009		<0.0005				
11/18/2009		<0.0005				
3/3/2010		<0.0005				
9/8/2010		<0.0005				
3/10/2011		<0.0005				
9/8/2011		<0.0005				
3/5/2012		<0.0005				
9/10/2012		<0.0005				
2/6/2013		<0.0005				
8/12/2013		<0.0005				
2/5/2014		<0.0005				
8/5/2014		<0.0005				
2/4/2015		<0.0005				
8/3/2015		<0.0005				
2/16/2016		<0.0005				
6/1/2016				<0.0005	<0.0005	
6/2/2016	<0.0005		<0.0005			
7/25/2016					<0.0005	
7/26/2016	<0.0005		<0.0005	<0.0005		
8/31/2016		<0.0005				
9/13/2016				<0.0005	<0.0005	
9/14/2016	<0.0005					<0.0005
9/15/2016			<0.0005			
11/1/2016				<0.0005		
11/2/2016			<0.0005			
11/4/2016	<0.0005				<0.0005	<0.0005
11/28/2016		<0.0005				
12/15/2016						<0.0005
1/10/2017			<0.0005			
1/11/2017				0.0002 (J)		
1/12/2017	9E-05 (J)					
1/16/2017					<0.0005	<0.0005
2/22/2017		<0.0005				
3/2/2017				<0.0005	<0.0005	
3/3/2017						<0.0005
3/7/2017	<0.0005					
3/8/2017			7E-05 (J)			
4/26/2017			<0.0005			
4/27/2017				<0.0005	<0.0005	
4/28/2017						<0.0005
5/2/2017	<0.0005					
5/8/2017		<0.0005				
5/26/2017						<0.0005
6/27/2017	<0.0005			<0.0005	<0.0005	
6/28/2017						<0.0005
6/30/2017			<0.0005			
7/17/2017		<0.0005				
10/16/2017		<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.0005				
3/27/2018			<0.0005		<0.0005	
3/28/2018						<0.0005
3/29/2018	<0.0005			<0.0005		
6/7/2018	<0.0005					
8/6/2018		<0.0005				
9/26/2018	<0.0005					
2/25/2019		<0.0005				
2/26/2019			<0.0005			
2/27/2019				<0.0005	<0.0005	<0.0005
3/4/2019	<0.0005					
3/28/2019				<0.0005	<0.0005	
3/29/2019			<0.0005			<0.0005
4/3/2019	<0.0005					
6/12/2019		<0.0005				
8/19/2019		<0.0005				
9/24/2019	<0.0005			<0.0005	<0.0005	<0.0005
9/25/2019			<0.0005			
10/8/2019		<0.0005				
2/10/2020				<0.0005	<0.0005	
2/11/2020						<0.0005
2/12/2020	<0.0005		<0.0005			
3/17/2020		<0.0005				
3/18/2020			<0.0005		<0.0005	
3/19/2020				<0.0005		<0.0005
3/24/2020	<0.0005					
8/26/2020		<0.0005				
9/22/2020	<0.0005	<0.0005				
9/23/2020				<0.0005	<0.0005	<0.0005
9/25/2020			<0.0005			
2/8/2021	<0.0005					
2/10/2021			<0.0005			<0.0005
2/12/2021				<0.0005	<0.0005	
3/2/2021	<0.0005	<0.0005	<0.0005			
3/3/2021				<0.0005	<0.0005	<0.0005
8/19/2021			<0.0005	<0.0005	<0.0005	
8/20/2021		<0.0005				
8/26/2021	<0.0005					
8/27/2021						<0.0005
2/8/2022		<0.0005				
2/9/2022				<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005		<0.0005			
8/30/2022	<0.0005	<0.0005		<0.0005		<0.0005
8/31/2022			<0.0005		<0.0005	
2/7/2023		0.00012 (J)		<0.0005	<0.0005	<0.0005
2/8/2023			<0.0005			
2/9/2023	<0.0005					
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
2/23/2024			<0.0005			
8/20/2024	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.0005		
6/2/2016	<0.0005	<0.0005			
7/25/2016	<0.0005		<0.0005		
7/26/2016		<0.0005			
9/1/2016				<0.0005	
9/14/2016			<0.0005		
9/15/2016		<0.0005			
9/19/2016	<0.0005				
11/1/2016	<0.0005	<0.0005	<0.0005		
11/16/2016				<0.0005	
1/11/2017		0.0001 (J)	8E-05 (J)		
1/16/2017	<0.0005				
2/21/2017	<0.0005				
2/27/2017				<0.0005	
3/1/2017			<0.0005		
3/2/2017		<0.0005			
4/26/2017	<0.0005	<0.0005	<0.0005		
5/8/2017				0.0001 (J)	
6/28/2017		<0.0005	<0.0005		
6/30/2017	<0.0005				
7/13/2017				<0.0005	
10/11/2017				<0.0005	
3/27/2018	<0.0005				
3/28/2018		<0.0005	<0.0005		
4/4/2018				<0.0005	
9/19/2018				<0.0005	
2/26/2019	<0.0005				
2/27/2019		<0.0005	<0.0005		
4/1/2019	<0.0005	<0.0005	<0.0005		
8/21/2019				0.00012 (J)	
9/25/2019	<0.0005	<0.0005	<0.0005		
10/9/2019				<0.0005	
2/11/2020			<0.0005		
2/12/2020	<0.0005	<0.0005			
3/17/2020				0.00012 (J)	
3/19/2020	<0.0005	<0.0005	<0.0005		
7/6/2020				<0.0005	
8/27/2020					<0.0005
8/28/2020				<0.0005	
9/23/2020		<0.0005	<0.0005		
9/24/2020	<0.0005				
11/12/2020				<0.0005	<0.0005
2/10/2021		<0.0005	<0.0005		
2/11/2021	<0.0005				
3/1/2021	<0.0005				
3/3/2021		<0.0005	<0.0005		
8/19/2021	<0.0005	<0.0005			
8/20/2021					<0.0005
8/27/2021			<0.0005	<0.0005	
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005
2/11/2022	<0.0005				
8/31/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
2/8/2023	<0.0005	<0.0005	0.00013 (J)		
2/10/2023				<0.0005	<0.0005
8/15/2023		<0.0005		<0.0005	<0.0005
8/16/2023	<0.0005		<0.0005		
2/20/2024	<0.0005	<0.0005	<0.0005		
2/21/2024				<0.0005	<0.0005
8/20/2024	<0.0005	<0.0005	<0.0005		
8/21/2024				<0.0005	
8/22/2024					<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					6.2	1.4
6/7/2016				2.2		
7/27/2016				2	4.73	1.19
8/30/2016	20.9					
8/31/2016		27.3	46.7			
9/16/2016				1.97		1.5
9/19/2016					4.76	
11/3/2016				1.99	5.25	1.31
11/14/2016	18.6		50.6			
11/15/2016		27.8				
1/11/2017				2.28	4.74	1.25
2/24/2017	16.1					
2/27/2017			49.4			
2/28/2017		26.4				
3/1/2017					5.37	1.26
3/2/2017				2.15		
4/26/2017					4.28	1.05
5/2/2017				1.95		
5/8/2017	14.6	29.9				
5/9/2017			56			
6/28/2017					4.95	1.06
6/29/2017				2.02		
7/11/2017	14.3					
7/13/2017		30.2	54.8			
10/4/2017				2.03		1.1
10/5/2017					5.28	
10/10/2017	12.1	27.2	52.8			
4/2/2018	<25					
4/3/2018			50.6			
4/4/2018		30.1				
6/7/2018					4.8	
6/11/2018				2.1		1.4
9/19/2018	11.1 (J)	29.2	50.5			
9/25/2018				2.1	4.6	1
3/27/2019	10.8 (J)	27.9	48.8			
4/2/2019				2.5		
4/3/2019					5.3	1.2
9/25/2019				2.6		
9/26/2019					4.9	1.1
10/8/2019	9.7	28.1				
10/9/2019			47.9			
3/17/2020	14.8	31.9	54.8			
3/24/2020				2.7	5.3	1
9/22/2020	10.1	30.4				
9/23/2020			50	2.6	5.2	0.91 (J)
3/1/2021	10.3	31.9	50.7			
3/3/2021				2.5	5.2	0.96 (J)
8/19/2021	9.6	31.7	50.4			
8/26/2021						0.98 (J)
8/27/2021				2.7	5.1	
2/8/2022	9.4					
2/9/2022		30.8	49.3	2.8	5.1	0.87 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				3	5.7	0.77 (J)
8/31/2022	9.6	30.8	51.8			
2/7/2023				2.9	5.5	0.79 (J)
2/8/2023	9.2	30.9				
2/9/2023			46.2			
8/15/2023	9.6	30	46.3	2.9	5.1	0.8 (J)
2/20/2024	10.3			3.2	5.6	
2/21/2024		31.6	54.5			
2/23/2024						0.84 (J)
8/20/2024	10			3.5	5.9	
8/21/2024		32.8	58.3			0.96 (J)

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					8.8	33
6/7/2016	2.3	3.7				
7/26/2016					7.69	32.3
7/27/2016	2.08					
7/28/2016		3.15				
9/14/2016					8.49	31
9/19/2016	1.97	3.17				
11/2/2016	2.13				7.83	30.9
11/3/2016		3.4				
1/12/2017						35.7
1/13/2017	2.45	4.98			8.08	
3/6/2017	2.48	6.28			8.64	
3/7/2017						32.7
4/26/2017	2.3	6.65				
5/1/2017					13.4	37
6/27/2017						36.5
6/29/2017	2.54	6.04			8.81	
10/3/2017		8.28				30.9
10/4/2017	2.25					
10/5/2017					9.29	
10/11/2017			2.74			
10/12/2017				2.9		
11/20/2017			1.81	10.4		
1/10/2018				10.2		
1/11/2018			1.54			
2/19/2018				<25		
2/20/2018			1.71			
4/3/2018			1.4	6.3		
6/5/2018		9.1				
6/6/2018	2.3					26.2
6/7/2018					8.2	
6/28/2018			1.4	6.7		
8/7/2018			1.2	6.3		
9/24/2018			1.1	5.7		
9/25/2018	2.3	10.4 (J)				
9/26/2018					9.5 (J)	25.8
3/26/2019				5.6		
3/27/2019			1.5			
4/2/2019		8.8				
4/3/2019	2.9				8.4	24.7 (J)
9/24/2019		7.7				25.8
9/25/2019	2.4				9.5	
10/9/2019			2.4	4.9		
3/24/2020	2.6	6		4.8		26.1
3/25/2020			2.7		10.5	
9/22/2020					9.6	27.2
9/24/2020	2.6	7.8	3.7	4.4		
3/2/2021						1.6
3/3/2021	2.4				7.7	
3/4/2021		8.7	8.2	4.6		
8/26/2021			14.1		7.6	25.2
8/27/2021	2.4					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		9.5				
9/3/2021				5.6		
2/8/2022			15.2	6		
2/9/2022	2.3	9.8				
2/10/2022						24.8
2/11/2022					7.5	
8/30/2022		7.3				24.8
8/31/2022	2.4		16.3	6.2	8.9	
2/7/2023	2.4	7.5	16.1			26.6
2/8/2023				5.9		
2/9/2023					9.6	
8/15/2023	2.2	6.1	17.2	5.3	7.8	25
2/20/2024	2.5	7	16.9	5.6	9.9	27.2
8/20/2024	2.8	6.9			9.1	29.1
8/21/2024			19.7	6		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				12	2.5	
6/2/2016	2.4		1.3			
7/25/2016					2.16	
7/26/2016	2.12		1.24	11		
8/31/2016		9.31				
9/13/2016				11.8	2.21	
9/14/2016	2.18					23.5
9/15/2016			1.17			
11/1/2016				11		
11/2/2016			1.23			
11/4/2016	2.17 (J)				2.67	23.7
11/28/2016		9.47 (B)				
12/15/2016						23.1
1/10/2017			1.24			
1/11/2017				11.2		
1/12/2017	2.37					
1/16/2017					2.45	23.3
2/22/2017		10.4				
3/2/2017				11	2.57	
3/3/2017						25.1
3/7/2017	2.34					
3/8/2017			1.21			
4/26/2017			1.14			
4/27/2017				11.1	2.38	
4/28/2017						30.7
5/2/2017	2.17					
5/8/2017		14.2				
5/26/2017						26.2
6/27/2017	2.13			13.8	2.36	
6/28/2017						26.1
6/30/2017			1.24			
7/17/2017		14.1				
10/3/2017	2.15			14	2.21	26.7
10/5/2017			1.11			
10/16/2017		13.6				
2/19/2018		<25				
6/5/2018				15.2 (J)		
6/6/2018					2.3	
6/7/2018	2.3					25
6/8/2018			1.1			
8/6/2018		11.4 (J)				
9/26/2018	2.3					
10/1/2018			0.99	15.1	1.8	25
2/25/2019		12.7 (J)				
3/28/2019				13.3 (J)	2.2	
3/29/2019			1.1			23.5 (J)
4/3/2019	2.8					
6/12/2019		18.9				
9/24/2019	2.5			15.8	2.3	26.4
9/25/2019			1.1			
10/8/2019		28.3				
3/17/2020		24.3				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			1.1		2.1	
3/19/2020				15		27.4
3/24/2020	2.5					
9/22/2020	2.6	31				
9/23/2020				14.1	1.8	26.3
9/25/2020			1.3			
3/2/2021	2.6	34.2	1.2			
3/3/2021				14.1	1.8	25.6
8/19/2021			1.2	14.2	2	
8/20/2021		26.5				
8/26/2021	2.5					
8/27/2021						22.6
2/8/2022		25.6				
2/9/2022				14.9	2.1	23.4
2/10/2022	2.5		1.3			
8/30/2022	2.5	23.5		14.9		25.4
8/31/2022			1.3		1.9	
2/7/2023		22.3		15	2.2	25.6
2/8/2023			1.5			
2/9/2023	2.8					
8/15/2023	2.6	20.3	1.3	13.5	1.8	23.2
2/20/2024	2.7	22.8		15.3	2.2	28.2
2/23/2024			1.6			
8/20/2024	3.2		1.3	17.7	1.9	30.4

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			21		
6/2/2016	1.3	28			
7/25/2016	1.17		20.3		
7/26/2016		24.5			
9/1/2016				96.8	
9/14/2016			19.7		
9/15/2016		27			
9/19/2016	1.05				
11/1/2016	1.14	25.6	18.4		
11/16/2016				107	
1/11/2017		27.5	20.3		
1/16/2017	1.23				
2/21/2017	1.25				
2/27/2017				104	
3/1/2017			18.6		
3/2/2017		27.5			
4/26/2017	1.03	30.4	25.6		
5/8/2017				103	
6/28/2017		29.8	23.9		
6/30/2017	1.13				
7/13/2017				83.7	
10/4/2017	1.09	29.7	22.1		
10/11/2017				69	
4/4/2018				51.9	
6/7/2018		29.1			
6/8/2018			21.9 (J)		
6/11/2018	1.1				
9/19/2018				51.9	
10/1/2018		26.9	19.7		
10/2/2018	1.1				
3/27/2019				54.2	
4/1/2019	1.3	30.1	20.4 (J)		
9/25/2019	1.1	29.5	22.4		
10/9/2019				64.2	
3/17/2020				70.4	
3/19/2020	1.2	31.5	21.9		
7/6/2020				105	
8/27/2020					52.3
8/28/2020				102	
9/22/2020					53.5
9/23/2020		28.6	23.6	104	
9/24/2020	1.1				
10/7/2020				105	53.8
11/12/2020				110	53.6
3/1/2021	1.2				50.6
3/2/2021				110	
3/3/2021		29.8	20.6		
8/19/2021	1.2	28.1			
8/20/2021					47.9
8/27/2021			24.7	108	
2/9/2022		30.3	23.7	109	42.2
2/11/2022	1.5				

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	1.3	28.7	23.5	110	41.8
2/8/2023	1.3	28.9	23.3		
2/10/2023				105	36.7
8/15/2023		27.4		111	34.6
8/16/2023	1.4		24.9		
2/20/2024	1.3	30.7	23.7		
2/21/2024				130	35
8/20/2024	1.4	30	23.4		
8/21/2024				124	
8/22/2024					37.6

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					6.8	6.4
6/7/2016				4.5		
7/27/2016				4.5	6.7	6.2
8/30/2016	5.2					
8/31/2016		13	5.8			
9/16/2016				4.5		6.1
9/19/2016					7	
11/3/2016				5.4	7.5	7.4
11/14/2016	6.4		5.8			
11/15/2016		14				
1/11/2017				4.7	6.5	6.1
2/24/2017	5.5					
2/27/2017			5			
2/28/2017		12				
3/1/2017					6.9	6
3/2/2017				4.8		
4/26/2017					7	6.5
5/2/2017				4.6		
5/8/2017	5.8	13				
5/9/2017			4.6			
6/28/2017					7	6.4
6/29/2017				4.5		
7/11/2017	5.8					
7/13/2017		13	4.7			
10/4/2017				4.7		6.8
10/5/2017					7	
10/10/2017	5.9	14	4.5			
4/2/2018	4.8					
4/3/2018			4.6			
4/4/2018		13.4				
6/7/2018					6.8	
6/11/2018				4.9		6.8
9/19/2018	4	14.2	4.7			
9/25/2018				5.6	7.9	7.8
3/27/2019	4.3	14	4.6			
4/2/2019				4.8		
4/3/2019					6.9	6.3
9/25/2019				5.7		
9/26/2019					7	7.1
10/8/2019	4.4	14.8				
10/9/2019			5.1			
3/17/2020	4.1	14	4.6			
3/24/2020				5	7	6.8
9/22/2020	4.2	14.4				
9/23/2020			4.9	6.6	7.2	7.2
3/1/2021	3.7	14	5			
3/3/2021				7.1	7	7.2
8/19/2021	3.5	13	4.1			
8/26/2021						7.3
8/27/2021				8.5	7.4	
2/8/2022	3.2					
2/9/2022		13.5	4.9	10.9	7.5	7

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				12	7.9	7
8/31/2022	3.5	14.5	5.4			
2/7/2023				11.4	7.4	6.4
2/8/2023	3.5	14.9				
2/9/2023			5.9			
8/15/2023	3.5	13.4	5.6	11.6	7.3	6.7
2/20/2024	3.2			12.2	7.6	
2/21/2024		13.2	6			
2/23/2024						6.6
8/20/2024	3.6			12.7	7.8	
8/21/2024		13.3	6.5			7.4

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					3.7	7.2
6/7/2016	1.9	2.8				
7/26/2016					3.6	6.6
7/27/2016	1.9					
7/28/2016		2.6				
9/14/2016					3.4	6.6
9/19/2016	1.9	2.4				
11/2/2016	2.6				4.5	7.6
11/3/2016		2.9				
1/12/2017						6.8
1/13/2017	2.3	2.5			4.2	
3/6/2017	1.9	2.1			3.6	
3/7/2017						6.8
4/26/2017	2	2.1				
5/1/2017					4.3	7.2
6/27/2017						7
6/29/2017	2.6	2.8			4.2	
10/3/2017		2.2				6.5
10/4/2017	2.6					
10/5/2017					4.7	
10/11/2017			2.4			
10/12/2017				3.8		
11/20/2017			1.8	4.4		
1/10/2018				4.6		
1/11/2018			1.6			
2/19/2018				4.6		
2/20/2018			2			
4/3/2018			3.3	5.9		
6/5/2018		1.7				
6/6/2018	2.7					4.7
6/7/2018					4.4	
6/28/2018			2.1	5		
8/7/2018			1.2	4.3		
9/24/2018			1.3	4.9		
9/25/2018	3.6	2.2				
9/26/2018					4.8	4.8
3/26/2019				4.4		
3/27/2019			1.4			
4/2/2019		2.5				
4/3/2019	3.1				4.3	4
9/24/2019		3.1				3.7
9/25/2019	2.8				4.5	
10/9/2019			2.1	5.1		
3/24/2020	2.7	2.8		4.7		3.5
3/25/2020			1.9		3.9	
9/22/2020					4.5	3.6
9/24/2020	2.7	2	2.7	5		
3/2/2021						3.2
3/3/2021	2.7				4.1	
3/4/2021		1.8	4.9	4.9		
8/26/2021			7.2		4.4	3.4
8/27/2021	2.8					

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		1.8				
9/3/2021				5.5		
2/8/2022			7.4	6.2		
2/9/2022	2.8	1.7				
2/10/2022						3.2
2/11/2022					4.1	
8/30/2022		2.4				3.5
8/31/2022	2.9		6.7	6.3	4.4	
2/7/2023	2.9	2.4	5.6			3.3
2/8/2023				6.9		
2/9/2023					4.5	
8/15/2023	2.8	2.3	4.5	5.6	4.4	3.1
2/20/2024	2.9	2.3	4.6	5.7	4.6	3.2
8/20/2024	3	2.3			5.2	3.4
8/21/2024			4	5.4		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				1.3	1.6	
6/2/2016	4.3		4.1			
7/25/2016					1.4	
7/26/2016	4.4		4	1.2		
8/31/2016		4				
9/13/2016				1.1	1.3	
9/14/2016	3.8					1.1
9/15/2016			4.2			
11/1/2016				1.3		
11/2/2016			4.9			
11/4/2016	4.8				1.6	1.4
11/28/2016		4.2				
12/15/2016						2.9
1/10/2017			4.1			
1/11/2017				1.1		
1/12/2017	3.8					
1/16/2017					1.4	0.98
2/22/2017		3.7				
3/2/2017				1	1.3	
3/3/2017						1.1
3/7/2017	4.5					
3/8/2017			4.2			
4/26/2017			4.1			
4/27/2017				1	1.3	
4/28/2017						0.91
5/2/2017	4.6					
5/8/2017		4.2				
5/26/2017						0.93
6/27/2017	4.3			1.1	1.4	
6/28/2017						1
6/30/2017			3.7			
7/17/2017		3.8				
10/3/2017	4.2			1.1	1.7	1.2
10/5/2017			3.8			
10/16/2017		4.2				
2/19/2018		4.3				
6/5/2018				1.1		
6/6/2018					1.4	
6/7/2018	4.5					1
6/8/2018			3.4			
8/6/2018		3.8				
9/26/2018	5.1					
10/1/2018			3.8	1.1	1.4	1.1
2/25/2019		4.1				
3/28/2019				1.4	1.5	
3/29/2019			4.2			1.2
4/3/2019	4.2					
6/12/2019		4.7				
9/24/2019	4.5			1.1	1.3	0.95 (J)
9/25/2019			4.8			
10/8/2019		5.1				
3/17/2020		4.8				

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			5.2		1.4	
3/19/2020				1.1		0.97 (J)
3/24/2020	4.3					
9/22/2020	4.2	4.2				
9/23/2020				0.99 (J)	1.2	0.88 (J)
9/25/2020			5.3			
3/2/2021	4.3	4.1	4.9			
3/3/2021				0.96 (J)	1.2	0.86 (J)
8/19/2021			5	1.1	1.3	
8/20/2021		5.2				
8/26/2021	4.3					
8/27/2021						0.99 (J)
2/8/2022		5.7				
2/9/2022				1	1.3	1 (J)
2/10/2022	4.4		4.7			
8/30/2022	4.4	6.3		1.3		1.2
8/31/2022			4.6		1.5	
2/7/2023		6.1		1.3	1.5	1.1
2/8/2023			4.9			
2/9/2023	5					
8/15/2023	4.1	5.6	4.1	1.1	1.4	0.93 (J)
2/20/2024	4.8	6.1		1	1.2	0.96 (J)
2/23/2024			4.8			
8/20/2024	4.8		4.5	1	1.3	0.91 (J)

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			1.3		
6/2/2016	1.9	1.4			
7/25/2016	1.7		1.3		
7/26/2016		1.6			
9/1/2016				37	
9/14/2016			1.3		
9/15/2016		1.5			
9/19/2016	1.6				
11/1/2016	1.8	1.7	1.4		
11/16/2016				37	
1/11/2017		1.2	1.1		
1/16/2017	1.7				
2/21/2017	1.7				
2/27/2017				33	
3/1/2017			1.1		
3/2/2017		1.2			
4/26/2017	1.7	1.2	1.1		
5/8/2017				33	
6/28/2017		1.3	1.2		
6/30/2017	1.8				
7/13/2017				32	
10/4/2017	1.8	1.5	1.2		
10/11/2017				29	
4/4/2018				26.6	
6/7/2018		1.2			
6/8/2018			1.2		
6/11/2018	2				
9/19/2018				26.5	
10/1/2018		1.5	1.2		
10/2/2018	1.8				
3/27/2019				20.9	
4/1/2019	1.7	1.2	1.1		
9/25/2019	1.6	1.1	1.1		
10/9/2019				25	
3/17/2020				24.8	
3/19/2020	1.8	1.2	1.1		
7/6/2020				25.8	
8/27/2020					3.9
8/28/2020				25.9	
9/22/2020					4.1
9/23/2020		1.1	1	28.1	
9/24/2020	1.5				
10/7/2020				28.2	4
11/12/2020				26.7	3.8
3/1/2021	1.6				3.7
3/2/2021				27.4	
3/3/2021		1.1	0.99 (J)		
8/19/2021	1.6	1.1			
8/20/2021					3.1
8/27/2021			1.1	29.3	
2/9/2022		1.1	1.1	28.2	3.2
2/11/2022	2.1				

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	1.8	1.3	1.3	29.9	3.4
2/8/2023	1.6	1.2	1.1		
2/10/2023				33.5	3.3
8/15/2023		1.1		32.2	3
8/16/2023	1.5		1.1		
2/20/2024	1.4	1.1	1.1		
2/21/2024				36.3	2.9
8/20/2024	1.4	1.1	1		
8/21/2024				39.6	
8/22/2024					3

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.0012 (J)	<0.005
6/7/2016				<0.005		
7/27/2016				0.0008 (J)	0.0007 (J)	0.0006 (J)
8/30/2016	<0.005					
8/31/2016		<0.005	<0.005			
9/16/2016				<0.005		<0.005
9/19/2016					<0.005	
11/3/2016				<0.005	<0.005	<0.005
11/14/2016	0.0093 (J)		0.0061 (J)			
11/15/2016		<0.005				
1/11/2017				<0.005	<0.005	<0.005
2/24/2017	<0.005					
2/27/2017			<0.005			
2/28/2017		<0.005				
3/1/2017					0.0012 (J)	<0.005
3/2/2017				0.001 (J)		
4/26/2017					0.0005 (J)	0.0003 (J)
5/2/2017				0.0007 (J)		
5/8/2017	<0.005	<0.005				
5/9/2017			<0.005			
6/28/2017					0.0006 (J)	<0.005
6/29/2017				0.0006 (J)		
7/11/2017	<0.005					
7/13/2017		<0.005	0.0006 (J)			
10/10/2017	<0.005	<0.005	<0.005			
3/28/2018				<0.005	<0.005	<0.005
4/2/2018	<0.005					
4/3/2018			<0.005			
4/4/2018		<0.005				
9/19/2018	<0.005	<0.005	<0.005			
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
8/20/2019	<0.005	<0.005	<0.005			
2/11/2020				0.00087 (J)	0.001 (J)	0.00088 (J)
3/24/2020				0.00087 (J)	0.00095 (J)	0.0011 (J)
8/27/2020	<0.005	<0.005				
8/28/2020			<0.005			
9/22/2020	<0.005	<0.005				
9/23/2020			0.00058 (J)	0.00098 (J)	0.00092 (J)	0.0012 (J)
2/9/2021					0.00083 (J)	0.0013 (J)
3/1/2021	<0.005	<0.005	<0.005			
3/3/2021				0.00082 (J)	0.00087 (J)	0.001 (J)
8/19/2021	<0.005	<0.005	<0.005			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	<0.005					
2/9/2022		<0.005	<0.005	<0.005	<0.005	0.0014 (J)
8/30/2022				<0.005	<0.005	0.0015 (J)
8/31/2022	<0.005	<0.005	<0.005			
2/7/2023				<0.005	<0.005	0.0016 (J)
2/8/2023	<0.005	<0.005				
2/9/2023			<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.0013 (J)
2/20/2024	<0.005			<0.005	<0.005	
2/21/2024		0.0021 (J)	<0.005			
2/23/2024						<0.005
8/20/2024	<0.005			<0.005	<0.005	
8/21/2024		<0.005	<0.005			<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.005	<0.005
6/7/2016	<0.005	<0.005				
7/26/2016					<0.005	<0.005
7/27/2016	0.0005 (J)					
7/28/2016		<0.005				
9/14/2016					<0.005	<0.005
9/19/2016	<0.005	<0.005				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		<0.005				
1/12/2017						<0.005
1/13/2017	<0.005	<0.005			<0.005	
3/6/2017	<0.005	<0.005			<0.005	
3/7/2017						<0.005
4/26/2017	0.0007 (J)	<0.005				
5/1/2017					<0.005	0.0004 (J)
6/27/2017						<0.005
6/29/2017	0.0005 (J)	<0.005			<0.005	
10/11/2017			<0.005			
10/12/2017				<0.005		
11/20/2017			<0.005	<0.005		
1/10/2018				<0.005		
1/11/2018			<0.005			
2/19/2018				<0.005		
2/20/2018			<0.005			
3/29/2018	<0.005	<0.005			<0.005	<0.005
4/3/2018			<0.005	<0.005		
6/28/2018			<0.005	<0.005		
8/7/2018			<0.005	<0.005		
9/24/2018			<0.005	<0.005		
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	<0.005				
8/21/2019			<0.005	0.00053 (J)		
10/9/2019			<0.005	0.0012 (J)		
2/12/2020	0.00045 (J)	<0.005	<0.005	0.00065 (J)	<0.005	<0.005
3/24/2020	0.00077 (J)	<0.005		0.00055 (J)		<0.005
3/25/2020			<0.005		0.00058 (J)	
9/22/2020					<0.005	0.0011 (J)
9/24/2020	0.00076 (J)	<0.005	<0.005	<0.005		
2/8/2021						<0.005
2/9/2021	0.00056 (J)	<0.005			<0.005	
2/10/2021			<0.005	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				0.0013 (J)	
3/4/2021		<0.005	<0.005	<0.005		
8/26/2021			<0.005		<0.005	<0.005
8/27/2021	<0.005					
9/1/2021		<0.005				
9/3/2021				<0.005		
2/8/2022			<0.005	<0.005		
2/9/2022	<0.005	<0.005				
2/10/2022						<0.005
2/11/2022					<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
8/30/2022		<0.005				<0.005
8/31/2022	<0.005		<0.005	<0.005	<0.005	
2/7/2023	<0.005	<0.005	<0.005			<0.005
2/8/2023				<0.005		
2/9/2023					<0.005	
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/20/2024	<0.005	<0.005			<0.005	<0.005
8/21/2024			<0.005	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		0.0029				
9/11/2007		0.0084				
3/20/2008		0.0027				
8/27/2008		0.0026				
3/3/2009		0.0022				
11/18/2009		0.0036				
3/3/2010		<0.005				
9/8/2010		<0.005				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		<0.005				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		<0.005				
2/5/2014		0.0059				
8/5/2014		<0.005				
2/4/2015		<0.005				
8/3/2015		0.0011 (J)				
2/16/2016		<0.005				
6/1/2016				0.0035	<0.005	
6/2/2016	<0.005		<0.005			
7/25/2016					<0.005	
7/26/2016	<0.005		<0.005	<0.005		
8/31/2016		<0.005				
9/13/2016				<0.005	<0.005	
9/14/2016	<0.005					<0.005
9/15/2016			<0.005			
11/1/2016				<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				<0.005	<0.005
11/28/2016		<0.005				
12/15/2016						<0.005
1/10/2017			<0.005			
1/11/2017				<0.005		
1/12/2017	<0.005					
1/16/2017					<0.005	<0.005
2/22/2017		<0.005				
3/2/2017				0.0009 (J)	0.0004 (J)	
3/3/2017						0.0005 (J)
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				<0.005	<0.005	
4/28/2017						0.0004 (J)
5/2/2017	<0.005					
5/8/2017		<0.005				
5/26/2017						<0.005
6/27/2017	<0.005			<0.005	<0.005	
6/28/2017						<0.005
6/30/2017			<0.005			
7/17/2017		<0.005				
10/16/2017		<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						<0.005
3/29/2018	<0.005			<0.005		
8/6/2018		<0.005				
2/25/2019		<0.005				
2/26/2019			<0.005			
2/27/2019				<0.005	<0.005	<0.005
3/4/2019	<0.005					
3/28/2019				<0.005	0.0021 (J)	
3/29/2019			<0.005			<0.005
6/12/2019		<0.005				
8/19/2019		<0.005				
9/24/2019				0.00072 (J)	0.0028 (J)	<0.005
9/25/2019			<0.005			
10/8/2019		<0.005				
2/10/2020				0.00042 (J)	<0.005	
2/11/2020						<0.005
2/12/2020	0.00043 (J)		<0.005			
3/17/2020		<0.005				
3/18/2020			<0.005		0.00044 (J)	
3/19/2020				0.00084 (J)		0.00048 (J)
3/24/2020	0.0014 (J)					
8/26/2020		<0.005				
9/22/2020	<0.005	<0.005				
9/23/2020				0.00062 (J)	0.00058 (J)	<0.005
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				<0.005	<0.005	
3/2/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	<0.005
8/19/2021			<0.005	<0.005	<0.005	
8/20/2021		<0.005				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		<0.005				
2/9/2022				<0.005	<0.005	<0.005
2/10/2022	<0.005		<0.005			
8/30/2022	<0.005	<0.005		0.0011 (J)		<0.005
8/31/2022			<0.005		<0.005	
2/7/2023		<0.005		<0.005	0.0013 (J)	<0.005
2/8/2023			<0.005			
2/9/2023	0.0012 (J)					
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005
2/23/2024			<0.005			
8/20/2024	<0.005		<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	<0.005	0.0013 (J)			
7/25/2016	<0.005		<0.005		
7/26/2016		<0.005			
9/1/2016				<0.005	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	<0.005				
11/1/2016	<0.005	<0.005	<0.005		
11/16/2016				<0.005	
1/11/2017		<0.005	<0.005		
1/16/2017	<0.005				
2/21/2017	<0.005				
2/27/2017				<0.005	
3/1/2017			0.0004 (J)		
3/2/2017		0.0006 (J)			
4/26/2017	0.0016 (J)	<0.005	<0.005		
5/8/2017				<0.005	
6/28/2017		<0.005	<0.005		
6/30/2017	<0.005				
7/13/2017				<0.005	
10/11/2017				<0.005	
3/27/2018	<0.005				
3/28/2018		<0.005	<0.005		
4/4/2018				<0.005	
9/19/2018				<0.005	
2/26/2019	<0.005				
2/27/2019		<0.005	<0.005		
4/1/2019	<0.005	<0.005	<0.005		
8/21/2019				<0.005	
9/25/2019	<0.005	0.0014 (J)	0.0019 (J)		
2/11/2020			<0.005		
2/12/2020	<0.005	<0.005			
3/19/2020	<0.005	<0.005	<0.005		
7/6/2020				<0.005	
8/27/2020					<0.005
8/28/2020				<0.005	
9/22/2020					0.00073 (J)
9/23/2020		<0.005	<0.005	<0.005	
9/24/2020	<0.005				
10/7/2020				<0.005	0.00086 (J)
11/12/2020				<0.005	<0.005
2/10/2021		<0.005	<0.005		
2/11/2021	<0.005				
3/1/2021	<0.005				0.00094 (J)
3/2/2021				<0.005	
3/3/2021		<0.005	<0.005		
8/19/2021	<0.005	<0.005			
8/20/2021					<0.005
8/27/2021			<0.005	<0.005	
2/9/2022		<0.005	<0.005	<0.005	0.0012 (J)
2/11/2022	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023	0.0021 (J)	<0.005	<0.005		
2/10/2023				<0.005	0.0021 (J)
8/15/2023		<0.005		<0.005	<0.005
8/16/2023	<0.005		<0.005		
2/20/2024	<0.005	<0.005	<0.005		
2/21/2024				<0.005	<0.005
8/20/2024	<0.005	<0.005	<0.005		
8/21/2024				<0.005	
8/22/2024					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.005	0.00061 (J)
6/7/2016				<0.005		
7/27/2016				<0.005	<0.005	0.0004 (J)
8/30/2016	0.0073 (J)					
8/31/2016		0.0119	0.0009 (J)			
9/16/2016				<0.005		0.0008 (J)
9/19/2016					<0.005	
11/3/2016				<0.005	<0.005	<0.005
11/14/2016	0.0115		0.0009 (J)			
11/15/2016		0.0033 (J)				
1/11/2017				<0.005	<0.005	<0.005
2/24/2017	0.0106					
2/27/2017			0.001 (J)			
2/28/2017		0.0017 (J)				
3/1/2017					<0.005	<0.005
3/2/2017				<0.005		
4/26/2017					<0.005	<0.005
5/2/2017				<0.005		
5/8/2017	0.0099 (J)	0.0018 (J)				
5/9/2017			0.0008 (J)			
6/28/2017					<0.005	<0.005
6/29/2017				<0.005		
7/11/2017	0.0096 (J)					
7/13/2017		0.0022 (J)	0.0009 (J)			
10/10/2017	0.0036 (J)	0.0017 (J)	0.0008 (J)			
3/28/2018				<0.005	<0.005	<0.005
4/2/2018	<0.005					
4/3/2018			<0.01 (O)			
4/4/2018		<0.005				
6/7/2018					<0.005	
6/11/2018				<0.005		<0.005
9/19/2018	0.0036 (J)	0.0025 (J)	0.00081 (J)			
9/25/2018				<0.005	<0.005	<0.005
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
4/2/2019				<0.005		
4/3/2019					<0.005	<0.005
8/20/2019	0.00092 (J)	0.002 (J)	0.00071 (J)			
9/25/2019				<0.005		
9/26/2019					<0.005	<0.005
10/8/2019	0.0014 (J)	0.0017 (J)				
10/9/2019			0.0007 (J)			
2/11/2020				<0.005	<0.005	<0.005
3/17/2020	0.0017 (J)	0.004 (J)	0.00081 (J)			
3/24/2020				<0.005	<0.005	<0.005
8/27/2020	0.0011 (J)	0.003 (J)				
8/28/2020			0.00055 (J)			
9/22/2020	0.00097 (J)	0.0065				
9/23/2020			0.00053 (J)	<0.005	<0.005	<0.005
2/9/2021					<0.005	<0.005
3/1/2021	0.001 (J)	0.0033 (J)	0.00062 (J)			
3/3/2021				<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	0.00099 (J)	0.0014 (J)	0.00048 (J)			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	0.0013 (J)					
2/9/2022		0.0027 (J)	0.00051 (J)	<0.005	<0.005	<0.005
8/30/2022				<0.005	<0.005	<0.005
8/31/2022	0.00096 (J)	0.00099 (J)	0.00069 (J)			
2/7/2023				<0.005	<0.005	<0.005
2/8/2023	0.0011 (J)	0.0014 (J)				
2/9/2023			0.00077 (J)			
8/15/2023	0.00072 (J)	0.00084 (J)	0.00053 (J)	<0.005	<0.005	<0.005
2/20/2024	0.0011 (J)			<0.005	<0.005	
2/21/2024		0.00093 (J)	0.00056 (J)			
2/23/2024						<0.005
8/20/2024	0.00034 (J)			<0.005	<0.005	
8/21/2024		0.001 (J)	0.00053 (J)			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.00082 (J)	<0.005
6/7/2016	<0.005	0.0056				
7/26/2016					0.0012 (J)	<0.005
7/27/2016	<0.005					
7/28/2016		0.0032 (J)				
9/14/2016					0.0006 (J)	<0.005
9/19/2016	<0.005	0.0047 (J)				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		0.013				
1/12/2017						<0.005
1/13/2017	<0.005	0.011			0.0029 (J)	
3/6/2017	<0.005	0.011			0.0006 (J)	
3/7/2017						<0.005
4/26/2017	<0.005	0.009 (J)				
5/1/2017					<0.005	<0.005
6/27/2017						<0.005
6/29/2017	<0.005	0.0093 (J)			0.0005 (J)	
10/11/2017			<0.005			
10/12/2017				<0.005		
11/20/2017			<0.005	<0.005		
1/10/2018				<0.005		
1/11/2018			<0.005			
2/19/2018				<0.005		
2/20/2018			<0.005			
3/29/2018	<0.005	<0.005			<0.005	<0.005
4/3/2018			<0.005	<0.005		
6/5/2018		0.0041 (J)				
6/6/2018	<0.005					<0.005
6/7/2018					0.00058 (J)	
6/28/2018			<0.005	<0.005		
8/7/2018			<0.005	<0.005		
9/24/2018			<0.005	<0.005		
9/25/2018	<0.005	0.0044 (J)				
9/26/2018					<0.005	<0.005
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	0.0039 (J)				
4/2/2019		0.0039 (J)				
4/3/2019	<0.005				0.00083 (J)	<0.005
8/21/2019			0.00034 (J)	<0.005		
9/24/2019		0.0032 (J)				<0.005
9/25/2019	<0.005				<0.005	
10/9/2019			<0.005	<0.005		
2/12/2020	<0.005	0.0081	0.00034 (J)	<0.005	<0.005	0.00037 (J)
3/24/2020	<0.005	0.0061		<0.005		0.00035 (J)
3/25/2020			0.00034 (J)		0.00056 (J)	
9/22/2020					<0.005	<0.005
9/24/2020	<0.005	0.0079	0.00053 (J)	<0.005		
2/8/2021						<0.005
2/9/2021	<0.005	0.009			<0.005	
2/10/2021			0.00098 (J)	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.0065	0.00071 (J)	<0.005		
8/26/2021			0.0011 (J)		0.00042 (J)	<0.005
8/27/2021	<0.005					
9/1/2021		0.0068				
9/3/2021				<0.005		
2/8/2022			0.0012 (J)	<0.005		
2/9/2022	<0.005	0.0078				
2/10/2022						<0.005
2/11/2022					<0.005	
8/30/2022		0.0066				<0.005
8/31/2022	<0.005		0.00085 (J)	<0.005	<0.005	
2/7/2023	<0.005	0.014	0.00066 (J)			<0.005
2/8/2023				<0.005		
2/9/2023					<0.005	
8/15/2023	<0.005	0.011	0.00072 (J)	<0.005	<0.005	<0.005
2/20/2024	<0.005	0.02	0.00073 (J)	<0.005	<0.005	<0.005
8/20/2024	<0.005	0.02			<0.005	<0.005
8/21/2024			0.00048 (J)	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		0.0067				
9/11/2007		<0.005				
3/20/2008		<0.005				
8/27/2008		<0.005				
3/3/2009		<0.005				
11/18/2009		<0.005				
3/3/2010		0.0027				
9/8/2010		0.007				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		0.0032				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		0.0045				
2/5/2014		<0.005				
8/5/2014		0.0027				
2/4/2015		0.0016				
8/3/2015		0.002				
2/16/2016		0.0027				
6/1/2016				<0.005	0.00082 (J)	
6/2/2016	<0.005		<0.005			
7/25/2016					0.0008 (J)	
7/26/2016	<0.005		<0.005	<0.005		
8/31/2016		0.0053 (J)				
9/13/2016				<0.005	0.0009 (J)	
9/14/2016	<0.005					<0.005
9/15/2016			<0.005			
11/1/2016				<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				0.0025 (J)	<0.005
11/28/2016		0.0036 (J)				
12/15/2016						<0.005
1/10/2017			<0.005			
1/11/2017				<0.005		
1/12/2017	<0.005					
1/16/2017					0.0027 (J)	<0.005
2/22/2017		0.0049 (J)				
3/2/2017				<0.005	0.0022 (J)	
3/3/2017						<0.005
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				<0.005	0.0018 (J)	
4/28/2017						<0.005
5/2/2017	<0.005					
5/8/2017		0.0059 (J)				
5/26/2017						<0.005
6/27/2017	<0.005			<0.005	0.0023 (J)	
6/28/2017						<0.005
6/30/2017			<0.005			
7/17/2017		0.0046 (J)				
10/16/2017		0.0034 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						<0.005
3/29/2018	<0.005			<0.005		
6/5/2018				<0.005		
6/6/2018					<0.005	
6/7/2018	<0.005					<0.005
6/8/2018			<0.005			
8/6/2018		0.003 (J)				
9/26/2018	<0.005					
10/1/2018			<0.005	<0.005	0.00059 (J)	<0.005
2/25/2019		0.001 (J)				
2/26/2019			<0.005			
2/27/2019				<0.005	0.00064 (J)	<0.005
3/4/2019	<0.005					
3/28/2019				<0.005	0.00091 (J)	
3/29/2019			<0.005			<0.005
4/3/2019	<0.005					
6/12/2019		0.003 (J)				
8/19/2019		0.0035 (J)				
9/24/2019	<0.005			<0.005	0.0013 (J)	<0.005
9/25/2019			<0.005			
10/8/2019		0.0039 (J)				
2/10/2020				<0.005	0.0016 (J)	
2/11/2020						<0.005
2/12/2020	<0.005		<0.005			
3/17/2020		0.003 (J)				
3/18/2020			<0.005		0.00087 (J)	
3/19/2020				<0.005		<0.005
3/24/2020	<0.005					
8/26/2020		0.2 (O)				
9/22/2020	<0.005	0.16 (O)				
9/23/2020				<0.005	0.0013 (J)	<0.005
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				0.00086 (J)	0.0028 (J)	
3/2/2021	<0.005	0.21 (O)	<0.005			
3/3/2021				<0.005	0.003 (J)	<0.005
8/19/2021			<0.005	0.00055 (J)	0.0017 (J)	
8/20/2021		0.074 (O)				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		0.072 (O)				
2/9/2022				0.00072 (J)	0.0023 (J)	<0.005
2/10/2022	<0.005		<0.005			
8/30/2022	<0.005	0.075 (O)		<0.005		<0.005
8/31/2022			<0.005		0.00085 (J)	
2/7/2023		0.034		0.00097 (J)	0.0048 (J)	<0.005
2/8/2023			<0.005			
2/9/2023	<0.005					
8/15/2023	<0.005	0.031	<0.005	<0.005	0.00072 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/20/2024	<0.005	0.023		0.00055 (J)	0.0018 (J)	<0.005
2/23/2024			<0.005			
8/20/2024	<0.005		<0.005	<0.005	0.00033 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	0.035	<0.005			
7/25/2016	0.0312		<0.005		
7/26/2016		<0.005			
9/1/2016				0.0171	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	0.0275				
11/1/2016	0.0255	<0.005	<0.005		
11/16/2016				0.0145	
1/11/2017		<0.005	<0.005		
1/16/2017	0.0245				
2/21/2017	0.0272				
2/27/2017				0.0161	
3/1/2017			<0.005		
3/2/2017		<0.005			
4/26/2017	0.0244	<0.005	<0.005		
5/8/2017				0.0367	
6/28/2017		<0.005	<0.005		
6/30/2017	0.0233				
7/13/2017				0.0265	
10/11/2017				0.0556	
3/27/2018	0.023				
3/28/2018		<0.005	<0.005		
4/4/2018				0.025	
6/7/2018		<0.005			
6/8/2018			<0.005		
6/11/2018	0.023				
9/19/2018				0.042	
10/1/2018		<0.005	<0.005		
10/2/2018	0.022				
2/26/2019	0.021				
2/27/2019		<0.005	<0.005		
4/1/2019	0.022	<0.005	<0.005		
8/21/2019				0.027	
9/25/2019	0.016	<0.005	<0.005		
10/9/2019				0.024	
2/11/2020			<0.005		
2/12/2020	0.014	<0.005			
3/17/2020				0.022	
3/19/2020	0.014	<0.005	<0.005		
7/6/2020				0.0041 (J)	
8/27/2020					0.0022 (J)
8/28/2020				0.0038 (J)	
9/22/2020					0.0019 (J)
9/23/2020		<0.005	<0.005	0.0015 (J)	
9/24/2020	0.0064				
10/7/2020				0.0014 (J)	0.0019 (J)
11/12/2020				0.001 (J)	0.0015 (J)
2/10/2021		<0.005	<0.005		
2/11/2021	0.0078				
3/1/2021	0.0061				0.0013 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.00096 (J)	
3/3/2021		<0.005	<0.005		
8/19/2021	0.0052	<0.005			
8/20/2021					0.0013 (J)
8/27/2021			<0.005	0.00056 (J)	
2/9/2022		<0.005	<0.005	0.0006 (J)	0.0015 (J)
2/11/2022	0.0038 (J)				
8/31/2022	0.004 (J)	<0.005	<0.005	0.0017 (J)	0.00096 (J)
2/8/2023	0.0031 (J)	<0.005	<0.005		
2/10/2023				0.0016 (J)	0.00055 (J)
8/15/2023		<0.005		0.0012 (J)	0.0017 (J)
8/16/2023	0.0028 (J)		<0.005		
2/20/2024	0.0029 (J)	<0.005	<0.005		
2/21/2024				0.0011 (J)	0.00042 (J)
8/20/2024	0.0023 (J)	<0.005	<0.005		
8/21/2024				0.00078 (J)	
8/22/2024					0.00054 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.0804 (U)	0.301 (U)
6/7/2016				0.158 (U)		
7/27/2016				0.0354 (U)	0.206 (U)	0.196 (U)
8/30/2016	1.09					
8/31/2016		2.15	1.65			
9/16/2016				1.04		0.915 (U)
9/19/2016					1.58	
11/3/2016				0.314 (U)	0.342 (U)	0.928 (U)
11/14/2016			0.981 (U)			
11/15/2016		0.676 (U)				
12/15/2016	1 (U)					
1/11/2017				0.34 (U)	0.365 (U)	0.502 (U)
2/24/2017	0.504 (U)					
2/27/2017			0.528 (U)			
2/28/2017		0.241 (U)				
3/1/2017					0.395 (U)	0.202 (U)
3/2/2017				0.746 (U)		
4/26/2017					0.507 (U)	0.264 (U)
5/2/2017				0.111 (U)		
5/8/2017	0.455 (U)	0.508 (U)				
5/9/2017			1.4			
6/28/2017					0.892	0.636 (U)
6/29/2017				0.576 (U)		
7/11/2017	0.471 (U)					
7/13/2017		0.77 (U)	0.611 (U)			
10/10/2017	0.649 (U)	1.43	1.47			
3/28/2018				0.438 (U)	0.92 (U)	0.56 (U)
4/2/2018	0.512 (U)					
4/3/2018			1.53			
4/4/2018		0.325 (U)				
6/7/2018					0.668 (U)	
6/11/2018				0.901 (U)		0.649 (U)
9/19/2018	0.789 (U)	0.386 (U)	0.839 (U)			
9/25/2018				0.68 (U)	0.141 (U)	0.574 (U)
3/5/2019				0.272 (U)		0.474 (U)
3/6/2019					0.714 (U)	
4/2/2019				0.847 (U)		
4/3/2019					0.385 (U)	0.429 (U)
8/20/2019	2.44	1.71	2.23			
9/25/2019				0.412 (U)		
9/26/2019					0.386 (U)	0.222 (U)
10/8/2019	1.72	0.769 (U)				
10/9/2019			1.61			
2/11/2020				0.461 (U)	1.48	0.597 (U)
3/17/2020	1.22 (U)	1.37	1.44			
3/24/2020				0.534 (U)	0.632 (U)	0.262 (U)
8/27/2020	1.26 (U)	0.0859 (U)				
8/28/2020			0.983 (U)			
9/22/2020	1.06 (U)	0.327 (U)				
9/23/2020			0.746 (U)	0.466 (U)	0.887 (U)	0.43 (U)
2/9/2021				0.529 (U)	0.314 (U)	0.259 (U)
3/1/2021	1.2	0.0694 (U)	1.28			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
3/3/2021				0.59 (U)	0.565 (U)	0.352 (U)
8/19/2021	1.07 (U)	0.261 (U)	1.38			
8/26/2021						0.686 (U)
8/27/2021				0.9 (U)	0.761 (U)	
2/8/2022	0.4 (U)					
2/9/2022		0.332 (U)	1.11	0.133 (U)	0.571 (U)	0.0618 (U)
8/30/2022				1.08	1.01	0.611 (U)
8/31/2022	0.714 (U)	0.145 (U)	0.598 (U)			
2/7/2023				0.367 (U)	0.485 (U)	0.656 (U)
2/8/2023	0.375 (U)	0.193 (U)				
2/9/2023			1.29			
8/15/2023	0.947 (U)	1.15	1.34	0.0388 (U)	0.655 (U)	0.347 (U)
2/20/2024	0.939 (U)			0.0387 (U)	0.068 (U)	
2/21/2024		0.345 (U)	0.857 (U)			
2/23/2024						0.318 (U)
8/20/2024	0.873 (U)			0.554 (U)	0.223 (U)	
8/21/2024		0.411 (U)	1.29			0.684 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.721	5.11
6/7/2016	0.0191 (U)	0.347				
7/26/2016					1.26	6.92
7/27/2016	0.541 (U)					
7/28/2016		0.815 (U)				
9/14/2016					0.901 (U)	3.96
9/19/2016	0.826 (U)	0.862 (U)				
11/2/2016	0.791 (U)				1.09 (U)	4.53
11/3/2016		0.797 (U)				
1/12/2017						4.43
1/13/2017	0.296 (U)	0.72 (U)			1.19	
3/6/2017	0.518 (U)	0.518 (U)			0.669 (U)	
3/7/2017						4.8
4/26/2017	0.282 (U)	1.13 (U)				
5/1/2017					0.803 (U)	4.16
6/27/2017						2.8
6/29/2017	1.12	0.841 (U)			1.35	
10/11/2017			0.586 (U)			
10/12/2017				1.49		
11/20/2017			0.816 (U)	0.918 (U)		
1/10/2018				1.05		
1/11/2018			0.841 (U)			
2/19/2018				2.05		
2/20/2018			1.58			
3/29/2018	1.73	1.91			0.703 (U)	3.42
4/3/2018			0.385 (U)	0.68 (U)		
6/5/2018		1.39				
6/6/2018	0.694 (U)					3.99
6/7/2018					0.628 (U)	
6/28/2018			0.283 (U)	1.28		
8/7/2018			0.332 (U)	1.16		
9/24/2018			0.767 (U)	0.965 (U)		
9/25/2018	0.772 (U)	1.62				
9/26/2018					0.756 (U)	2.73
3/4/2019					1.21 (U)	4.43
3/5/2019	0.84 (U)	0.985 (U)				
4/2/2019		1.42				
4/3/2019	1.01				1.07 (U)	4.79
8/21/2019			1.01 (U)	1.24 (U)		
9/24/2019		1.35				4.06
9/25/2019	1.18 (U)				1.86	
10/8/2019			1.02 (U)	0.866 (U)		
2/12/2020	1.11 (U)	1.61	0.45 (U)	1.83	1.25	4.02
3/24/2020	1.88	1.24 (U)		1.27 (U)		3.52
3/25/2020			0.377 (U)		0.766 (U)	
9/22/2020					0.795 (U)	2.98
9/24/2020	0.611 (U)	1.8	0.568 (U)	0.634 (U)		
2/8/2021						2.89
2/9/2021	0.284 (U)	1.24			0.626 (U)	
2/10/2021			0.518 (U)	0.783 (U)		
3/2/2021						1.67
3/3/2021	0.133 (U)	1.2			1	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021			0.636 (U)	0.818 (U)		
8/26/2021			0.674 (U)		1.17 (U)	4.68
8/27/2021	0.779 (U)					
9/1/2021		1.86				
9/3/2021				0.971 (U)		
2/8/2022			0.834	0.534 (U)		
2/9/2022	0.504 (U)	1.94				
2/10/2022						3.33
2/11/2022					0.996	
8/30/2022		1.27				5.34
8/31/2022	0.184 (U)		0.937	0.513 (U)	0.962	
2/7/2023	0.794 (U)	1.53	1.41			3.99
2/8/2023				1.56		
2/9/2023					1.12	
8/15/2023	0.165 (U)	1.68	0.608 (U)	0.325 (U)	1.14	3.44
2/20/2024	0.165 (U)	1.19	0.701 (U)	0.437 (U)	1.1 (U)	2.8
8/20/2024	0.371 (U)	0.545 (U)			1.18	3.02
8/21/2024			1.52	0.265 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.321 (U)	0.42	
6/2/2016	0.614		0.329 (U)			
7/25/2016					1.83	
7/26/2016	1.47		1.51	0.707 (U)		
8/31/2016		1.2				
9/13/2016				1.22	0.841	
9/14/2016	1.27					0.98 (U)
9/15/2016			1.04 (U)			
11/1/2016				0.805 (U)		
11/2/2016			0.496 (U)			
11/4/2016	0.434 (U)				0.166 (U)	0.277 (U)
11/28/2016		0.264 (U)				
12/15/2016						0.071 (U)
1/10/2017			0.376 (U)			
1/11/2017				0.705 (U)		
1/12/2017	0.202 (U)					
1/16/2017					0	0.44 (U)
2/22/2017		1.06 (U)				
3/2/2017				0.251 (U)	0.504 (U)	
3/3/2017						0.448 (U)
3/7/2017	0.0674 (U)					
3/8/2017			0.0745 (U)			
4/26/2017			0.282 (U)			
4/27/2017				1.08	0.593 (U)	
4/28/2017						0.548 (U)
5/2/2017	0.444 (U)					
5/8/2017		0.187 (U)				
5/26/2017						0 (U)
6/27/2017	0.77 (U)			1.02 (U)	0.657 (U)	
6/28/2017						0.608 (U)
6/30/2017			0.994			
7/17/2017		1.42				
10/16/2017		1.17				
2/19/2018		1.58 (D)				
3/27/2018			0.189 (U)		0.39 (U)	
3/28/2018						0.412 (U)
3/29/2018	0.648 (U)			0.503 (U)		
6/5/2018				0.771 (U)		
6/6/2018					2.8	
6/7/2018	0.745 (U)					0.73 (U)
6/8/2018			0.218 (U)			
8/6/2018		0.196 (U)				
9/26/2018	0.377 (U)					
10/1/2018			1.24	0.783 (U)	1.06 (U)	0.756 (U)
2/26/2019			0.202 (U)			
2/27/2019				1.21 (U)	0.637 (U)	0.635 (U)
3/4/2019	1 (U)					
3/28/2019				1.13 (U)	0.125 (U)	
3/29/2019			0 (U)			0.224 (U)
4/3/2019	0.43 (U)					
8/19/2019		1.39				
9/24/2019	0.699 (U)			1.22 (U)	0.949 (U)	0.429 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
9/25/2019			0.707 (U)			
10/8/2019		1.32 (U)				
2/10/2020				1.41	1.25 (U)	
2/11/2020						0.817 (U)
2/12/2020	0.913 (U)		1.07 (U)			
3/17/2020		1 (U)				
3/18/2020			0.207 (U)		0.458 (U)	
3/19/2020				1.1		0.715 (U)
8/26/2020		1.75				
9/22/2020	0.428 (U)	0.688 (U)				
9/23/2020				1.35 (U)	0.00884 (U)	0.565 (U)
9/25/2020			0.603 (U)			
2/8/2021	0.613 (U)					
2/10/2021			0.353 (U)			1.04 (U)
2/12/2021				0.366 (U)	0.458 (U)	
3/2/2021	0.579 (U)	0.948 (U)	0.71 (U)			
3/3/2021				0.492 (U)	0.105 (U)	0.459 (U)
8/19/2021			0.786 (U)	1.17 (U)	0.0732 (U)	
8/20/2021		0.528 (U)				
8/26/2021	0.798 (U)					
8/27/2021						0.409 (U)
2/8/2022		0.462 (U)				
2/9/2022				1.19	0.422 (U)	0.894 (U)
2/10/2022	0.375 (U)		0 (U)			
8/30/2022	0.72 (U)	1.52		0.827		0.699 (U)
8/31/2022			0.421 (U)		0.49 (U)	
2/7/2023		1		0.92 (U)	0.661 (U)	0.536 (U)
2/8/2023			0.83 (U)			
2/9/2023	0.0815 (U)					
8/15/2023	0.846 (U)	0.833 (U)	0.652 (U)	0.935 (U)	0.726 (U)	0.611 (U)
2/20/2024	0.63 (U)	0.978 (U)		0.274 (U)	0.798 (U)	0.784 (U)
2/23/2024			0.736 (U)			
8/20/2024	0.695 (U)		0.667 (U)	0.46 (U)	0.65 (U)	0.0912 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.896		
6/2/2016	0.0652 (U)	2.51			
7/25/2016	3.01		2.28		
7/26/2016		3.82			
9/1/2016				2.28	
9/14/2016			0.821 (U)		
9/15/2016		4.24			
9/19/2016	0.871 (U)				
11/1/2016	0.307 (U)	3.92	0.585 (U)		
11/16/2016				0.639 (U)	
11/28/2016				0.996	
1/11/2017		2.52	1.22		
1/16/2017	0.284 (U)				
2/21/2017	0.503 (U)				
2/27/2017				0.617 (U)	
3/1/2017			0.877 (U)		
3/2/2017		3.13			
4/26/2017	0.204 (U)	2.35	0.672 (U)		
5/8/2017				0.949	
6/28/2017		2.6	1.07 (U)		
6/30/2017	0.738 (U)				
7/13/2017				1.41	
10/11/2017				0.856 (U)	
3/27/2018	0.31 (U)				
3/28/2018		3	0.65 (U)		
4/4/2018				0.974	
6/7/2018		2.79			
6/8/2018			1.89		
6/11/2018	0.608 (U)				
9/19/2018				1.15 (U)	
10/1/2018		3.14	1.58		
10/2/2018	0.97 (U)				
2/26/2019	0.524 (U)				
2/27/2019		3.79	3.67		
4/1/2019	1.02 (U)	4.33	2.28		
8/21/2019				1.31	
9/25/2019	1.02 (U)	4.2	1.6		
10/9/2019				0.892 (U)	
2/11/2020		3.87	1.85		
2/12/2020	0.301 (U)				
3/17/2020				1.74	
3/19/2020	1	3.96	2.2		
7/6/2020				2.27	
8/27/2020					0.852 (U)
8/28/2020				2.34	
9/22/2020					0.268 (U)
9/23/2020		4.14	1.14 (U)	0.575 (U)	
9/24/2020	0.684 (U)				
10/7/2020				1.81	0.819 (U)
2/10/2021		3.65	2.46		
2/11/2021	0.678 (U)				
3/1/2021	0.412 (U)				0.846 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				1.64	
3/3/2021		3.58	2.03		
8/19/2021	0.234 (U)	3.53			
8/20/2021					0.496 (U)
8/27/2021			1.34	1.83	
2/9/2022		3.28	1.91	1.74	0.926
2/10/2022	0.268 (U)				
8/31/2022	0.506 (U)	2.12	1.33	1.51	0.322 (U)
2/8/2023	0.417 (U)	2.74	1.18		
2/10/2023				1.92	0.786 (U)
8/15/2023		2.79		1.92	0.319 (U)
8/16/2023	0.895 (U)		1.87		
2/20/2024	0.375 (U)	2.56	1.09 (U)		
2/21/2024				2	0.164 (U)
8/20/2024	0.748 (U)	3.09	0.921 (U)		
8/21/2024				1.87	
8/22/2024					0.862 (U)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.1	<0.1
6/7/2016				<0.1		
7/27/2016				<0.1	<0.1	<0.1
8/30/2016	0.09 (J)					
8/31/2016		<0.1	0.11 (J)			
9/16/2016				<0.1		<0.1
9/19/2016					<0.1	
11/3/2016				<0.1	<0.1	<0.1
11/14/2016	0.18 (J)		0.71			
11/15/2016		0.12 (J)				
1/11/2017				<0.1	<0.1	<0.1
2/24/2017	0.05 (J)					
2/27/2017			0.22 (J)			
2/28/2017		0.07 (J)				
3/1/2017					<0.1	<0.1
3/2/2017				<0.1		
4/26/2017					<0.1	<0.1
5/2/2017				<0.1		
5/8/2017	0.03 (J)	0.04 (J)				
5/9/2017			0.2 (J)			
6/28/2017					<0.1	<0.1
6/29/2017				<0.1		
7/11/2017	0.07 (J)					
7/13/2017		<0.1	0.11 (J)			
10/4/2017				<0.1		<0.1
10/5/2017					<0.1	
10/10/2017	<0.1	<0.1	0.39			
3/28/2018				<0.1	<0.1	<0.1
4/2/2018	<0.1					
4/3/2018			<0.3			
4/4/2018		<0.1				
6/7/2018					<0.1	
6/11/2018				<0.1		<0.1
9/19/2018	<0.1	<0.1	<0.3			
9/25/2018				<0.1	<0.1	<0.1
3/5/2019				<0.1		<0.1
3/6/2019					<0.1	
3/27/2019	0.081 (J)	<0.1	0.18 (J)			
4/2/2019				<0.1		
4/3/2019					<0.1	<0.1
8/20/2019	<0.1	<0.1	<0.3			
9/25/2019				<0.1		
9/26/2019					<0.1	<0.1
10/8/2019	0.034 (J)	<0.1				
10/9/2019			<0.3			
2/11/2020				<0.1	<0.1	<0.1
3/17/2020	<0.1	<0.1	0.076 (J)			
3/24/2020				<0.1	<0.1	<0.1
8/27/2020	<0.1	<0.1				
8/28/2020			0.07 (J)			
9/22/2020	<0.1	<0.1				
9/23/2020			0.082 (J)	<0.1	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/9/2021					<0.1	<0.1
3/1/2021	<0.1	<0.1	0.073 (J)			
3/3/2021				<0.1	<0.1	<0.1
8/19/2021	<0.1	<0.1	0.075 (J)			
8/26/2021						<0.1
8/27/2021				<0.1	<0.1	
2/8/2022	<0.1					
2/9/2022		<0.1	0.063 (J)	<0.1	<0.1	<0.1
8/30/2022				<0.1	<0.1	<0.1
8/31/2022	0.065 (J)	0.055 (J)	0.1			
2/7/2023				<0.1	<0.1	<0.1
2/8/2023	0.077 (J)	0.062 (J)				
2/9/2023			0.11			
8/15/2023	<0.1	<0.1	0.07 (J)	<0.1	<0.1	<0.1
2/20/2024	0.073 (J)			<0.1	<0.1	
2/21/2024		<0.1	0.099 (J)			
2/23/2024						<0.1
8/20/2024	<0.1			<0.1	<0.1	
8/21/2024		<0.1	0.077 (J)			0.051 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.1	0.11 (J)
6/7/2016	<0.1	<0.3				
7/26/2016					<0.1	0.05 (J)
7/27/2016	<0.1					
7/28/2016		0.02 (J)				
9/14/2016					<0.1	0.04 (J)
9/19/2016	<0.1	0.02 (J)				
11/2/2016	<0.1				<0.1	<0.1
11/3/2016		<0.3				
1/12/2017						0.04 (J)
1/13/2017	<0.1	<0.3			<0.1	
3/6/2017	<0.1	<0.3			<0.1	
3/7/2017						<0.1
4/26/2017	<0.1	0.04 (J)				
5/1/2017					<0.1	<0.1
6/27/2017						<0.1
6/29/2017	<0.1	<0.3			<0.1	
10/3/2017		<0.3				<0.1
10/4/2017	<0.1					
10/5/2017					<0.1	
10/11/2017			<0.1			
10/12/2017				<0.1		
11/20/2017			<0.1	<0.1		
1/10/2018				<0.1		
1/11/2018			<0.1			
2/19/2018				<0.1		
2/20/2018			0.23			
3/29/2018	<0.1	<0.3			<0.1	<0.1
4/3/2018			<0.1	<0.1		
6/5/2018		0.13 (J)				
6/6/2018	<0.1					0.15 (J)
6/7/2018					<0.1	
6/28/2018			<0.1	<0.1		
8/7/2018			0.048 (J)	<0.1		
9/24/2018			<0.1	<0.1		
9/25/2018	<0.1	0 (J)				
9/26/2018					<0.1	<0.1
3/4/2019					<0.1	0.19 (J)
3/5/2019	<0.1	0.32				
3/26/2019				<0.1		
3/27/2019			<0.1			
4/2/2019		0.12 (J)				
4/3/2019	<0.1				<0.1	0.047 (J)
8/21/2019			<0.1	<0.1		
9/24/2019		0.15 (J)				0.05 (J)
9/25/2019	<0.1				<0.1	
10/9/2019			<0.1	<0.1		
2/12/2020	<0.1	0.1 (J)	<0.1	<0.1	<0.1	<0.1
3/24/2020	<0.1	0.081 (J)		<0.1		<0.1
3/25/2020			<0.1		<0.1	
9/22/2020					<0.1	0.056 (J)
9/24/2020	<0.1	0.079 (J)	<0.1	<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2021						0.055 (J)
2/9/2021	<0.1	0.092 (J)			<0.1	
2/10/2021			<0.1	<0.1		
3/2/2021						<0.1
3/3/2021	<0.1				<0.1	
3/4/2021		0.091 (J)	<0.1	<0.1		
8/26/2021			0.063 (J)		<0.1	0.061 (J)
8/27/2021	<0.1					
9/1/2021		0.11				
9/3/2021				<0.1		
2/8/2022			0.052 (J)	<0.1		
2/9/2022	<0.1	0.1				
2/10/2022						0.055 (J)
2/11/2022					<0.1	
8/30/2022		0.1				0.085 (J)
8/31/2022	<0.1		0.065 (J)	0.05 (J)	0.061 (J)	
2/7/2023	<0.1	0.1	0.076 (J)			0.082 (J)
2/8/2023				<0.1		
2/9/2023					0.067 (J)	
8/15/2023	<0.1	0.061 (J)	<0.1	<0.1	<0.1	<0.1
2/20/2024	<0.1	0.083 (J)	0.063 (J)	<0.1	0.059 (J)	0.076 (J)
8/20/2024	<0.1	0.062 (J)			<0.1	0.058 (J)
8/21/2024			0.083 (J)	0.06 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.12 (J)	<0.1	
6/2/2016	<0.1		<0.1			
7/25/2016					0.06 (J)	
7/26/2016	<0.1		0.02 (J)	0.08 (J)		
8/31/2016		0.14 (J)				
9/13/2016				0.11 (J)	<0.1	
9/14/2016	<0.1					0.08 (J)
9/15/2016			<0.1			
11/1/2016				<0.3		
11/2/2016			<0.1			
11/4/2016	<0.1				<0.1	<0.3
11/28/2016		0.12 (J)				
12/15/2016						0.06 (J)
1/10/2017			<0.1			
1/11/2017				0.05 (J)		
1/12/2017	<0.1					
1/16/2017					<0.1	0.1 (J)
2/22/2017		0.09 (J)				
3/2/2017				<0.3	<0.1	
3/3/2017						<0.3
3/7/2017	<0.1					
3/8/2017			<0.1			
4/26/2017			<0.1			
4/27/2017				0.04 (J)	0.01 (J)	
4/28/2017						0.06 (J)
5/2/2017	<0.1					
5/8/2017		0.05 (J)				
5/26/2017						0.09 (J)
6/27/2017	<0.1			<0.3	<0.1	
6/28/2017						0.11 (J)
6/30/2017			<0.1			
7/17/2017		0.14 (J)				
10/3/2017	<0.1			<0.3	<0.1	<0.3
10/5/2017			<0.1			
10/16/2017		0.12 (J)				
2/19/2018		0.17				
3/27/2018			<0.1		<0.1	
3/28/2018						0.31
3/29/2018	<0.1			<0.3		
6/5/2018				0.055 (J)		
6/6/2018					<0.1	
6/7/2018	<0.1					0.11 (J)
6/8/2018			<0.1			
8/6/2018		0.087 (J)				
9/26/2018	<0.1					
10/1/2018			<0.1	<0.3	<0.1	<0.3
2/25/2019		0.14 (J)				
2/26/2019			<0.1			
2/27/2019				0.052 (J)	<0.1	0.12 (J)
3/4/2019	<0.1					
3/28/2019				0.036 (J)	<0.1	
3/29/2019			<0.1			0.13 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
4/3/2019	<0.1					
6/12/2019		0.12 (J)				
8/19/2019		<0.3				
9/24/2019	<0.1			0.063 (J)	<0.1	0.081 (J)
9/25/2019			<0.1			
10/8/2019		0.052 (J)				
2/10/2020				0.061 (J)	<0.1	
2/11/2020						0.075 (J)
2/12/2020	<0.1		<0.1			
3/17/2020		0.053 (J)				
3/18/2020			<0.1		<0.1	
3/19/2020				0.064 (J)		0.093 (J)
3/24/2020	<0.1					
8/26/2020		0.068 (J)				
9/22/2020	<0.1	0.058 (J)				
9/23/2020				0.058 (J)	<0.1	0.08 (J)
9/25/2020			<0.1			
2/8/2021	<0.1					
2/10/2021			<0.1			0.094 (J)
2/12/2021				0.068 (J)	<0.1	
3/2/2021	<0.1	0.073 (J)	<0.1			
3/3/2021				0.078 (J)	<0.1	0.085 (J)
8/19/2021			<0.1	0.074 (J)	<0.1	
8/20/2021		0.06 (J)				
8/26/2021	<0.1					
8/27/2021						0.12
2/8/2022		0.064 (J)				
2/9/2022				0.057 (J)	<0.1	0.094 (J)
2/10/2022	<0.1		<0.1			
8/30/2022	<0.1	0.086 (J)		0.093 (J)		0.12
8/31/2022			0.053 (J)		0.065 (J)	
2/7/2023		0.095 (J)		0.093 (J)	0.071 (J)	0.12
2/8/2023			0.059 (J)			
2/9/2023	<0.1					
8/15/2023	<0.1	0.065 (J)	<0.1	0.057 (J)	<0.1	0.081 (J)
2/20/2024	<0.1	0.094 (J)		0.086 (J)	<0.1	0.1
2/23/2024			<0.1			
8/20/2024	<0.1		<0.1	0.066 (J)	<0.1	0.085 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.15 (J)		
6/2/2016	<0.1	0.62			
7/25/2016	0.06 (J)		0.14 (J)		
7/26/2016		0.49			
9/1/2016				0.08 (J)	
9/14/2016			0.18 (J)		
9/15/2016		0.54			
9/19/2016	<0.1				
11/1/2016	<0.1	0.68	<0.1		
11/16/2016				0.04 (J)	
1/11/2017		0.49	0.09 (J)		
1/16/2017	<0.1				
2/21/2017	<0.1				
2/27/2017				0.05 (J)	
3/1/2017			<0.1		
3/2/2017		0.48			
4/26/2017	<0.1	0.48	0.08 (J)		
5/8/2017				0.004 (J)	
6/28/2017		0.47	0.12 (J)		
6/30/2017	<0.1				
7/13/2017				0.35	
10/4/2017	<0.1	<0.47	<0.1		
10/11/2017				<0.3	
3/27/2018	<0.1				
3/28/2018		0.56	<0.1		
4/4/2018				<0.3	
6/7/2018		0.48			
6/8/2018			0.2 (J)		
6/11/2018	<0.1				
9/19/2018				<0.3	
10/1/2018		0.44	<0.1		
10/2/2018	<0.1				
2/26/2019	<0.1				
2/27/2019		0.53	0.13 (J)		
3/27/2019				0.12 (J)	
4/1/2019	<0.1	0.45	0.1 (J)		
8/21/2019				<0.3	
9/25/2019	<0.1	0.46	0.1 (J)		
10/9/2019				0.12 (J)	
2/11/2020			0.094 (J)		
2/12/2020	<0.1	0.4			
3/17/2020				<0.3	
3/19/2020	<0.1	0.51	0.11 (J)		
7/6/2020				0.12	
8/27/2020					<0.1
8/28/2020				0.12	
9/22/2020					<0.1
9/23/2020		0.47	0.098 (J)	0.12	
9/24/2020	<0.1				
10/7/2020				0.13	<0.1
11/12/2020				0.084 (J)	<0.1
2/10/2021		0.43	<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
2/11/2021	<0.1				
3/1/2021	<0.1				<0.1
3/2/2021				0.12	
3/3/2021		0.44	0.1		
8/19/2021	<0.1	0.47			
8/20/2021					<0.1
8/27/2021			0.12	0.13	
2/9/2022		0.43	0.097 (J)	0.12	<0.1
2/11/2022	<0.1				
8/31/2022	0.06 (J)	0.42	0.13	0.12	0.059 (J)
2/8/2023	0.064 (J)	0.56	0.16		
2/10/2023				0.17	0.063 (J)
8/15/2023		0.42		0.12	<0.1
8/16/2023	<0.1		0.11		
2/20/2024	0.051 (J)	0.45	0.12		
2/21/2024				0.11	0.054 (J)
8/20/2024	<0.1	0.45	0.12		
8/21/2024				0.1	
8/22/2024					<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.001	<0.001
6/7/2016				<0.001		
7/27/2016				<0.001	<0.001	<0.001
8/30/2016	<0.001					
8/31/2016		<0.001	<0.001			
9/16/2016				<0.001		<0.001
9/19/2016					<0.001	
11/3/2016				<0.001	<0.001	<0.001
11/14/2016	<0.001		<0.001			
11/15/2016		<0.001				
1/11/2017				<0.001	<0.001	<0.001
2/24/2017	<0.001					
2/27/2017			<0.001			
2/28/2017		<0.001				
3/1/2017					<0.001	<0.001
3/2/2017				8E-05 (J)		
4/26/2017					<0.001	<0.001
5/2/2017				<0.001		
5/8/2017	<0.001	<0.001				
5/9/2017			0.0001 (J)			
6/28/2017					<0.001	0.0001 (J)
6/29/2017				8E-05 (J)		
7/11/2017	<0.001					
7/13/2017		<0.001	<0.001			
10/10/2017	<0.001	<0.001	<0.001			
3/28/2018				<0.001	<0.001	<0.001
4/2/2018	<0.001					
4/3/2018			<0.001			
4/4/2018		<0.001				
9/19/2018	<0.001	<0.001	<0.001			
3/5/2019				<0.001		<0.001
3/6/2019					<0.001	
4/2/2019				<0.001		
4/3/2019					<0.001	<0.001
8/20/2019	<0.001	<0.001	<0.001			
9/25/2019				<0.001		
9/26/2019					<0.001	<0.001
2/11/2020				<0.001	<0.001	<0.001
3/24/2020				6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)
8/27/2020	<0.001	<0.001				
8/28/2020			<0.001			
9/22/2020	<0.001	<0.001				
9/23/2020			<0.001	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)
2/9/2021					5E-05 (J)	9.4E-05 (J)
3/1/2021	<0.001	<0.001	<0.001			
3/3/2021				<0.001	<0.001	7.6E-05 (J)
8/19/2021	<0.001	<0.001	<0.001			
8/26/2021						<0.001
8/27/2021				<0.001	<0.001	
2/8/2022	<0.001					
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2022				<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/31/2022	<0.001	<0.001	<0.001			
2/7/2023				<0.001	<0.001	<0.001
2/8/2023	<0.001	<0.001				
2/9/2023			<0.001			
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001			<0.001	<0.001	
2/21/2024		<0.001	<0.001			
2/23/2024						<0.001
8/20/2024	<0.001			<0.001	<0.001	
8/21/2024		<0.001	<0.001			<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.001	<0.001
6/7/2016	<0.001	<0.001				
7/26/2016					<0.001	<0.001
7/27/2016	<0.001					
7/28/2016		<0.001				
9/14/2016					<0.001	<0.001
9/19/2016	<0.001	<0.001				
11/2/2016	0.0013 (J)				<0.001	<0.001
11/3/2016		<0.001				
1/12/2017						<0.001
1/13/2017	<0.001	<0.001			<0.001	
3/6/2017	<0.001	<0.001			<0.001	
3/7/2017						0.0001 (J)
4/26/2017	<0.001	<0.001				
5/1/2017					<0.001	<0.001
6/27/2017						<0.001
6/29/2017	<0.001	<0.001			<0.001	
10/11/2017			0.0001 (J)			
10/12/2017				9E-05 (J)		
11/20/2017			<0.001	<0.001		
1/10/2018				<0.001		
1/11/2018			0.0002 (J)			
2/19/2018				<0.001		
2/20/2018			<0.001			
3/29/2018	<0.001	<0.001			<0.001	<0.001
4/3/2018			<0.001	<0.001		
6/28/2018			<0.001	<0.001		
8/7/2018			<0.001	<0.001		
9/24/2018			<0.001	<0.001		
3/4/2019					<0.001	<0.001
3/5/2019	<0.001	<0.001				
4/2/2019		<0.001				
4/3/2019	<0.001				<0.001	<0.001
8/21/2019			<0.001	<0.001		
9/24/2019		<0.001				<0.001
9/25/2019	<0.001				<0.001	
10/9/2019			<0.001	<0.001		
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/24/2020	0.00011 (J)	<0.001		<0.001		5.4E-05 (J)
3/25/2020			5.1E-05 (J)		<0.001	
9/22/2020					<0.001	4.5E-05 (J)
9/24/2020	9.2E-05 (J)	4.6E-05 (J)	<0.001	3.8E-05 (J)		
2/8/2021						0.00013 (J)
2/9/2021	6.3E-05 (J)	<0.001			<0.001	
2/10/2021			<0.001	<0.001		
3/2/2021						5.1E-05 (J)
3/3/2021	4.5E-05 (J)				<0.001	
3/4/2021		<0.001	<0.001	<0.001		
8/26/2021			<0.001		<0.001	<0.001
8/27/2021	<0.001					
9/1/2021		<0.001				
9/3/2021				<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2022			<0.001	<0.001		
2/9/2022	<0.001	<0.001				
2/10/2022						<0.001
2/11/2022					<0.001	
8/30/2022		<0.001				<0.001
8/31/2022	<0.001		<0.001	<0.001	<0.001	
2/7/2023	<0.001	<0.001	<0.001			<0.001
2/8/2023				<0.001		
2/9/2023					<0.001	
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2024	<0.001	<0.001			<0.001	<0.001
8/21/2024			<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.001				
9/11/2007		<0.001				
3/20/2008		<0.001				
8/27/2008		<0.001				
3/3/2009		<0.001				
11/18/2009		<0.001				
3/3/2010		<0.001				
9/8/2010		<0.001				
3/10/2011		<0.001				
9/8/2011		<0.001				
3/5/2012		<0.001				
9/10/2012		<0.001				
2/6/2013		<0.001				
8/12/2013		<0.001				
2/5/2014		<0.001				
8/5/2014		<0.001				
2/4/2015		<0.001				
8/3/2015		<0.001				
2/16/2016		<0.001				
6/1/2016				0.00056 (J)	<0.001	
6/2/2016	<0.001		<0.001			
7/25/2016					<0.001	
7/26/2016	<0.001		<0.001	<0.001		
8/31/2016		<0.001				
9/13/2016				0.0001 (J)	<0.001	
9/14/2016	<0.001					<0.001
9/15/2016			<0.001			
11/1/2016				<0.001		
11/2/2016			<0.001			
11/4/2016	<0.001				<0.001	<0.001
11/28/2016		<0.001				
12/15/2016						<0.001
1/10/2017			<0.001			
1/11/2017				<0.001		
1/12/2017	<0.001					
1/16/2017					<0.001	<0.001
2/22/2017		<0.001				
3/2/2017				0.0001 (J)	<0.001	
3/3/2017						<0.001
3/7/2017	7E-05 (J)					
3/8/2017			0.0001 (J)			
4/26/2017			<0.001			
4/27/2017				<0.001	<0.001	
4/28/2017						<0.001
5/2/2017	<0.001					
5/8/2017		<0.001				
5/26/2017						<0.001
6/27/2017	<0.001			<0.001	<0.001	
6/28/2017						<0.001
6/30/2017			<0.001			
7/17/2017		<0.001				
10/16/2017		<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.001				
3/27/2018			<0.001		<0.001	
3/28/2018						<0.001
3/29/2018	<0.001			<0.001		
8/6/2018		<0.001				
2/25/2019		<0.001				
2/26/2019			<0.001			
2/27/2019				<0.001	<0.001	<0.001
3/4/2019	<0.001					
4/3/2019	<0.001					
6/12/2019		<0.001				
8/19/2019		<0.001				
9/24/2019	9E-05 (J)					
10/8/2019		<0.001				
2/10/2020				4.9E-05 (J)	<0.001	
2/11/2020						<0.001
2/12/2020	<0.001		<0.001			
3/17/2020		<0.001				
3/18/2020			<0.001		<0.001	
3/19/2020				0.00012 (J)		<0.001
3/24/2020	6.8E-05 (J)					
8/26/2020		<0.001				
9/22/2020	4.2E-05 (J)	0.0001 (J)				
9/23/2020				<0.001	0.00021 (J)	0.0011 (J)
9/25/2020			<0.001			
2/8/2021	3.7E-05 (J)					
2/10/2021			4.8E-05 (J)			0.00015 (J)
2/12/2021				4.4E-05 (J)	0.00038 (J)	
3/2/2021	9.2E-05 (J)	<0.001	<0.001			
3/3/2021				5.6E-05 (J)	<0.001	<0.001
8/19/2021			<0.001	<0.001	<0.001	
8/20/2021		<0.001				
8/26/2021	<0.001					
8/27/2021						<0.001
2/8/2022		<0.001				
2/9/2022				<0.001	<0.001	<0.001
2/10/2022	<0.001		<0.001			
8/30/2022	<0.001	<0.001		<0.001		<0.001
8/31/2022			<0.001		<0.001	
2/7/2023		<0.001		<0.001	<0.001	<0.001
2/8/2023			<0.001			
2/9/2023	<0.001					
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001
2/23/2024			<0.001			
8/20/2024	<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 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.001		
6/2/2016	<0.001	0.00056 (J)			
7/25/2016	<0.001		<0.001		
7/26/2016		0.0001 (J)			
9/1/2016				<0.001	
9/14/2016			<0.001		
9/15/2016		0.0002 (J)			
9/19/2016	<0.001				
11/1/2016	<0.001	<0.001	<0.001		
11/16/2016				<0.001	
1/11/2017		<0.001	<0.001		
1/16/2017	<0.001				
2/21/2017	<0.001				
2/27/2017				<0.001	
3/1/2017			<0.001		
3/2/2017		0.0002 (J)			
4/26/2017	<0.001	<0.001	<0.001		
5/8/2017				<0.001	
6/28/2017		<0.001	<0.001		
6/30/2017	<0.001				
7/13/2017				<0.001	
10/11/2017				<0.001	
3/27/2018	<0.001				
3/28/2018		<0.001	<0.001		
4/4/2018				<0.001	
9/19/2018				<0.001	
2/26/2019	<0.001				
2/27/2019		<0.001	<0.001		
8/21/2019				<0.001	
2/11/2020			<0.001		
2/12/2020	<0.001	<0.001			
3/19/2020	<0.001	0.00017 (J)	<0.001		
7/6/2020				<0.001	
8/27/2020					9.2E-05 (J)
8/28/2020				<0.001	
9/22/2020					6E-05 (J)
9/23/2020		<0.001	0.00015 (J)	<0.001	
9/24/2020	<0.001				
10/7/2020				<0.001	<0.001
11/12/2020				4.4E-05 (J)	6.4E-05 (J)
2/10/2021		<0.001	<0.001		
2/11/2021	4.6E-05 (J)				
3/1/2021	<0.001				8.7E-05 (J)
3/2/2021				<0.001	
3/3/2021		<0.001	<0.001		
8/19/2021	<0.001	<0.001			
8/20/2021					<0.001
8/27/2021			<0.001	<0.001	
2/9/2022		<0.001	<0.001	<0.001	<0.001
2/11/2022	<0.001				
8/31/2022	<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023	<0.001	<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
2/10/2023				<0.001	<0.001
8/15/2023		<0.001		<0.001	<0.001
8/16/2023	<0.001		<0.001		
2/20/2024	<0.001	<0.001	<0.001		
2/21/2024				<0.001	<0.001
8/20/2024	<0.001	<0.001	<0.001		
8/21/2024				<0.001	
8/22/2024					<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.0088	0.015
6/7/2016				<0.03		
7/27/2016				<0.03	0.0087 (J)	0.0049 (J)
8/30/2016	0.0061 (J)					
8/31/2016		0.0115 (J)	0.0147 (J)			
9/16/2016				<0.03		0.0031 (J)
9/19/2016					0.0043 (J)	
11/3/2016				<0.03	<0.03	0.0021 (J)
11/14/2016	0.0064 (J)		0.0175 (J)			
11/15/2016		0.0148 (J)				
1/11/2017				0.0035 (J)	0.0052 (J)	0.0025 (J)
2/24/2017	0.0049 (J)					
2/27/2017			0.0135 (J)			
2/28/2017		0.0124 (J)				
3/1/2017					0.0053 (J)	0.0029 (J)
3/2/2017				<0.03		
4/26/2017					0.0041 (J)	0.0019 (J)
5/2/2017				<0.03		
5/8/2017	0.0053 (J)	0.0132 (J)				
5/9/2017			0.0136 (J)			
6/28/2017					0.0039 (J)	0.0016 (J)
6/29/2017				<0.03		
7/11/2017	0.0051 (J)					
7/13/2017		0.0124 (J)	0.0129 (J)			
10/10/2017	0.0043 (J)	0.0123 (J)	0.015 (J)			
3/28/2018				<0.03	0.0041 (J)	0.0024 (J)
4/2/2018	0.0045 (J)					
4/3/2018			0.014 (J)			
4/4/2018		0.014 (J)				
6/7/2018					0.0032 (J)	
6/11/2018				<0.03		0.0014 (J)
9/19/2018	0.0043 (J)	0.013 (J)	0.012 (J)			
9/25/2018				<0.03	0.0036 (J)	0.0016 (J)
3/5/2019				<0.03		0.0031 (J)
3/6/2019					0.0033 (J)	
4/2/2019				<0.03		
4/3/2019					0.0035 (J)	0.0028 (J)
8/20/2019	0.0036 (J)	0.013 (J)	0.012 (J)			
9/25/2019				<0.03		
9/26/2019					0.0032 (J)	0.0029 (J)
10/8/2019	0.0036 (J)	0.012 (J)				
10/9/2019			0.012 (J)			
2/11/2020				<0.03	0.0033 (J)	0.005 (J)
3/17/2020	0.0046 (J)	0.013 (J)	0.014 (J)			
3/24/2020				0.0034 (J)	0.0033 (J)	0.0035 (J)
8/27/2020	0.0039 (J)	0.013 (J)				
8/28/2020			0.012 (J)			
9/22/2020	0.0036 (J)	0.013 (J)				
9/23/2020			0.012 (J)	<0.03	0.003 (J)	0.0022 (J)
2/9/2021					0.0031 (J)	0.0019 (J)
3/1/2021	0.0037 (J)	0.013 (J)	0.012 (J)			
3/3/2021				<0.03	0.0034 (J)	0.0021 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	0.0038 (J)	0.013 (J)	0.012 (J)			
8/26/2021						0.0019 (J)
8/27/2021				<0.03	0.0032 (J)	
2/8/2022	0.0039 (J)					
2/9/2022		0.014 (J)	0.012 (J)	<0.03	0.0032 (J)	0.0015 (J)
8/30/2022				<0.03	0.0036 (J)	0.0014 (J)
8/31/2022	0.0037 (J)	0.013 (J)	0.012 (J)			
2/7/2023				<0.03	0.003 (J)	0.0012 (J)
2/8/2023	0.0037 (J)	0.014 (J)				
2/9/2023			0.01 (J)			
8/15/2023	0.004 (J)	0.013 (J)	0.012 (J)	<0.03	<0.03	0.00077 (J)
2/20/2024	0.0036 (J)			<0.03	0.0038 (J)	
2/21/2024		0.012 (J)	0.012 (J)			
2/23/2024						<0.03
8/20/2024	0.0036 (J)			<0.03	0.0032 (J)	
8/21/2024		0.011 (J)	0.011 (J)			0.0032 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.013	0.0049 (J)
6/7/2016	<0.03	0.0055				
7/26/2016					0.0123 (J)	0.0063 (J)
7/27/2016	<0.03					
7/28/2016		0.0045 (J)				
9/14/2016					0.0137 (J)	0.0058 (J)
9/19/2016	<0.03	0.0054 (J)				
11/2/2016	<0.03				0.0136 (J)	0.0053 (J)
11/3/2016		<0.03				
1/12/2017						0.0054 (J)
1/13/2017	<0.03	0.0062 (J)			0.0121 (J)	
3/6/2017	<0.03	0.0059 (J)			0.0143 (J)	
3/7/2017						0.0056 (J)
4/26/2017	<0.03	0.0054 (J)				
5/1/2017					0.0132 (J)	0.0031 (J)
6/27/2017						0.0018 (J)
6/29/2017	<0.03	0.0047 (J)			0.0145 (J)	
10/11/2017			0.0018 (J)			
10/12/2017				<0.03		
11/20/2017			0.0018 (J)	<0.03		
1/10/2018				<0.03		
1/11/2018			0.0019 (J)			
2/19/2018				<0.03		
2/20/2018			<0.03			
3/29/2018	<0.03	0.0062 (J)			0.014 (J)	0.0058 (J)
4/3/2018			0.0022 (J)	<0.03		
6/5/2018		0.0061 (J)				
6/6/2018	<0.03					0.0068 (J)
6/7/2018					0.013 (J)	
6/28/2018			0.0026 (J)	<0.03		
8/7/2018			0.0024 (J)	<0.03		
9/24/2018			0.0022 (J)	<0.03		
9/25/2018	<0.03	0.0062 (J)				
9/26/2018					0.014 (J)	0.0065 (J)
3/4/2019					0.015 (J)	0.0065 (J)
3/5/2019	<0.03	0.0053 (J)				
4/2/2019		0.0051 (J)				
4/3/2019	<0.03				0.014 (J)	0.007 (J)
8/21/2019			0.0035 (J)	<0.03		
9/24/2019		0.0068 (J)				0.0065 (J)
9/25/2019	<0.03				0.014 (J)	
10/9/2019			0.0036 (J)	<0.03		
2/12/2020	<0.03	0.0065 (J)	0.0041 (J)	<0.03	0.011 (J)	0.0066 (J)
3/24/2020	<0.03	0.0064 (J)		<0.03		0.0064 (J)
3/25/2020			0.0049 (J)		0.014 (J)	
9/22/2020					0.013 (J)	0.0066 (J)
9/24/2020	<0.03	0.0069 (J)	0.0054 (J)	<0.03		
2/8/2021						0.0063 (J)
2/9/2021	<0.03	0.006 (J)			0.011 (J)	
2/10/2021			0.0071 (J)	<0.03		
3/2/2021						0.0018 (J)
3/3/2021	<0.03				0.012 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.0062 (J)	0.0084 (J)	<0.03		
8/26/2021			0.0082 (J)		0.0094 (J)	0.0075 (J)
8/27/2021	<0.03					
9/1/2021		0.0057 (J)				
9/3/2021				<0.03		
2/8/2022			0.008 (J)	0.00076 (J)		
2/9/2022	0.00082 (J)	0.0061 (J)				
2/10/2022						0.0076 (J)
2/11/2022					0.012 (J)	
8/30/2022		0.0079 (J)				0.0068 (J)
8/31/2022	<0.03		0.0065 (J)	<0.03	0.013 (J)	
2/7/2023	<0.03	0.0059 (J)	0.0065 (J)			0.0059 (J)
2/8/2023				0.00074 (J)		
2/9/2023					0.014 (J)	
8/15/2023	<0.03	0.0062 (J)	0.0064 (J)	<0.03	0.0083 (J)	0.0059 (J)
2/20/2024	<0.03	0.0062 (J)	0.0059 (J)	<0.03	0.014 (J)	0.0056 (J)
8/20/2024	<0.03	0.0057 (J)			0.011 (J)	0.0024 (J)
8/21/2024			0.0055 (J)	<0.03		

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.015	<0.03	
6/2/2016	<0.03		<0.03			
7/25/2016					0.002 (J)	
7/26/2016	0.0027 (J)		<0.03	0.0135 (J)		
8/31/2016		<0.03				
9/13/2016				0.0112 (J)	<0.03	
9/14/2016	0.0029 (J)					0.004 (J)
9/15/2016			<0.03			
11/1/2016				0.0163 (J)		
11/2/2016			<0.03			
11/4/2016	<0.03				<0.03	<0.03
11/28/2016		<0.03				
12/15/2016						0.0026 (J)
1/10/2017			<0.03			
1/11/2017				0.0166 (J)		
1/12/2017	0.0032 (J)					
1/16/2017					0.0023 (J)	0.0023 (J)
2/22/2017		<0.03				
3/2/2017				0.0159 (J)	0.0025 (J)	
3/3/2017						0.0013 (J)
3/7/2017	0.0035 (J)					
3/8/2017			<0.03			
4/26/2017			<0.03			
4/27/2017				0.0137 (J)	0.0027 (J)	
4/28/2017						0.0031 (J)
5/2/2017	0.0031 (J)					
5/8/2017		0.0014 (J)				
5/26/2017						0.0038 (J)
6/27/2017	0.0029 (J)			0.0094 (J)	0.0024 (J)	
6/28/2017						0.0026 (J)
6/30/2017			<0.03			
7/17/2017		<0.03				
10/16/2017		0.0016 (J)				
2/19/2018		<0.03				
3/27/2018			<0.03		0.0023 (J)	
3/28/2018						0.0025 (J)
3/29/2018	0.0034 (J)			0.0078 (J)		
6/5/2018				0.0079 (J)		
6/6/2018					0.0024 (J)	
6/7/2018	0.0032 (J)					0.0017 (J)
6/8/2018			<0.03			
8/6/2018		<0.03				
9/26/2018	0.0032 (J)					
10/1/2018			<0.03	0.0053 (J)	0.0023 (J)	<0.03
2/26/2019			<0.03			
2/27/2019				0.0093 (J)	0.0023 (J)	0.0011 (J)
3/4/2019	0.0032 (J)					
3/28/2019				0.013 (J)	0.0022 (J)	
3/29/2019			<0.03			0.0016 (J)
4/3/2019	0.0035 (J)					
8/19/2019		0.0019 (J)				
9/24/2019	0.0031 (J)			0.0046 (J)	0.0023 (J)	0.0011 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
9/25/2019			<0.03			
10/8/2019		0.0015 (J)				
2/10/2020				0.011 (J)	0.0023 (J)	
2/11/2020						0.0012 (J)
2/12/2020	0.0032 (J)		<0.03			
3/17/2020		0.0017 (J)				
3/18/2020			<0.03		0.0024 (J)	
3/19/2020				0.013 (J)		0.0022 (J)
3/24/2020	0.0033 (J)					
8/26/2020		0.0032 (J)				
9/22/2020	0.0034 (J)	0.0029 (J)				
9/23/2020				0.014 (J)	0.0024 (J)	0.0016 (J)
9/25/2020			<0.03			
2/8/2021	0.0032 (J)					
2/10/2021			<0.03			0.0039 (J)
2/12/2021				0.01 (J)	0.0025 (J)	
3/2/2021	0.0031 (J)	0.0033 (J)	<0.03			
3/3/2021				0.012 (J)	0.0025 (J)	0.0016 (J)
8/19/2021			<0.03	0.013 (J)	0.0023 (J)	
8/20/2021		0.0028 (J)				
8/26/2021	0.0032 (J)					
8/27/2021						0.0058 (J)
2/8/2022		0.0031 (J)				
2/9/2022				0.013 (J)	0.0027 (J)	0.006 (J)
2/10/2022	0.0036 (J)		<0.03			
8/30/2022	0.0035 (J)	0.0025 (J)		0.013 (J)		0.0044 (J)
8/31/2022			<0.03		<0.03	
2/7/2023		0.0022 (J)		0.006 (J)	0.0029 (J)	0.0047 (J)
2/8/2023			<0.03			
2/9/2023	0.0036 (J)					
8/15/2023	<0.03	<0.03	<0.03	0.0079 (J)	0.002 (J)	<0.03
2/20/2024	0.0033 (J)	0.0024 (J)		0.0071 (J)	<0.03	0.0021 (J)
2/23/2024			<0.03			
8/20/2024	0.0031 (J)		<0.03	0.0037 (J)	0.0023 (J)	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.01		
6/2/2016	<0.03	0.018			
7/25/2016	<0.03		0.0132 (J)		
7/26/2016		0.0221 (J)			
9/1/2016				0.0077 (J)	
9/14/2016			0.012 (J)		
9/15/2016		0.0197 (J)			
9/19/2016	<0.03				
11/1/2016	<0.03	0.0194 (J)	0.0115 (J)		
11/16/2016				0.0075 (J)	
1/11/2017		0.0177 (J)	0.0085 (J)		
1/16/2017	<0.03				
2/21/2017	<0.03				
2/27/2017				0.0084 (J)	
3/1/2017			0.0114 (J)		
3/2/2017		0.0185 (J)			
4/26/2017	<0.03	0.0183 (J)	0.0092 (J)		
5/8/2017				0.0087 (J)	
6/28/2017		0.0173 (J)	0.0085 (J)		
6/30/2017	<0.03				
7/13/2017				0.0104 (J)	
10/11/2017				0.0099 (J)	
3/27/2018	0.0011 (J)				
3/28/2018		0.02 (J)	0.013 (J)		
4/4/2018				0.012 (J)	
6/7/2018		0.02 (J)			
6/8/2018			0.012 (J)		
6/11/2018	0.0012 (J)				
9/19/2018				0.011 (J)	
10/1/2018		0.02 (J)	0.011 (J)		
10/2/2018	<0.03				
2/26/2019	0.0011 (J)				
2/27/2019		0.021 (J)	0.014 (J)		
4/1/2019	0.001 (J)	0.021 (J)	0.013 (J)		
8/21/2019				0.0076 (J)	
9/25/2019	0.0011 (J)	0.02 (J)	0.01 (J)		
10/9/2019				0.0078 (J)	
2/11/2020			0.013 (J)		
2/12/2020	0.0013 (J)	0.019 (J)			
3/17/2020				0.0071 (J)	
3/19/2020	0.0012 (J)	0.023 (J)	0.014 (J)		
7/6/2020				0.011 (J)	
8/27/2020					0.0048 (J)
8/28/2020				0.012 (J)	
9/22/2020					0.0046 (J)
9/23/2020		0.023 (J)	0.013 (J)	0.013 (J)	
9/24/2020	0.0011 (J)				
10/7/2020				0.011 (J)	0.0041 (J)
11/12/2020				0.014 (J)	0.0044 (J)
2/10/2021		0.023 (J)	0.015 (J)		
2/11/2021	0.0012 (J)				
3/1/2021	0.0011 (J)				0.0043 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.013 (J)	
3/3/2021		0.024 (J)	0.017 (J)		
8/19/2021	0.0012 (J)	0.023 (J)			
8/20/2021					0.0043 (J)
8/27/2021			0.026 (J)	0.014 (J)	
2/9/2022		0.026 (J)	0.021 (J)	0.014 (J)	0.0042 (J)
2/11/2022	0.0014 (J)				
8/31/2022	0.0012 (J)	0.021 (J)	0.022 (J)	0.015 (J)	0.0037 (J)
2/8/2023	0.0011 (J)	0.023 (J)	0.018 (J)		
2/10/2023				0.011 (J)	0.0033 (J)
8/15/2023		0.023 (J)		0.012 (J)	0.004 (J)
8/16/2023	<0.03		0.025 (J)		
2/20/2024	<0.03	0.021 (J)	0.02 (J)		
2/21/2024				0.012 (J)	0.0036 (J)
8/20/2024	<0.03	0.021 (J)	0.017 (J)		
8/21/2024				0.011 (J)	
8/22/2024					0.0034 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.0002	<0.0002
6/7/2016				9.5E-05 (J)		
7/27/2016				<0.0002	<0.0002	<0.0002
8/30/2016	<0.0002					
8/31/2016		<0.0002	<0.0002			
9/16/2016				<0.0002		<0.0002
9/19/2016					<0.0002	
11/3/2016				<0.0002	<0.0002	<0.0002
11/14/2016	<0.0002		<0.0002			
11/15/2016		<0.0002				
1/11/2017				<0.0002	<0.0002	<0.0002
2/24/2017	<0.0002					
2/27/2017			<0.0002			
2/28/2017		<0.0002				
3/1/2017					<0.0002	<0.0002
3/2/2017				<0.0002		
4/26/2017					<0.0002	<0.0002
5/2/2017				<0.0002		
5/8/2017	<0.0002	<0.0002				
5/9/2017			<0.0002			
6/28/2017					<0.0002	<0.0002
6/29/2017				<0.0002		
7/11/2017	<0.0002					
7/13/2017		<0.0002	<0.0002			
10/10/2017	<0.0002	<0.0002	<0.0002			
3/28/2018				<0.0002	<0.0002	<0.0002
4/2/2018	<0.0002					
4/3/2018			<0.0002			
4/4/2018		<0.0002				
9/19/2018	5.3E-05 (J)	6E-05 (J)	7.1E-05 (J)			
9/25/2018				<0.0002	<0.0002	<0.0002
3/5/2019				<0.0002		<0.0002
3/6/2019					<0.0002	
8/20/2019	<0.0002	<0.0002	<0.0002			
2/11/2020				<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002	<0.0002				
8/28/2020			<0.0002			
2/9/2021					<0.0002	<0.0002
3/3/2021				<0.0002	<0.0002	<0.0002
8/19/2021	<0.0002	<0.0002	<0.0002			
8/26/2021						<0.0002
8/27/2021				<0.0002	<0.0002	
2/8/2022	<0.0002					
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/30/2022				<0.0002	<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002	<0.0002			
2/7/2023				0.00018 (J)	0.00013 (J)	0.00017 (J)
2/8/2023	<0.0002	<0.0002				
2/9/2023			<0.0002			
8/15/2023	0.00014 (J)	<0.0002	<0.0002	<0.0002	0.00014 (J)	0.00015 (J)
2/20/2024	<0.0002			<0.0002	<0.0002	
2/21/2024		<0.0002	<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/23/2024						<0.0002
8/20/2024	<0.0002			<0.0002	<0.0002	
8/21/2024		<0.0002	<0.0002			<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.0002	<0.0002
6/7/2016	9.6E-05 (J)	9.6E-05 (J)				
7/26/2016					<0.0002	<0.0002
7/27/2016	<0.0002					
7/28/2016		<0.0002				
9/14/2016					<0.0002	<0.0002
9/19/2016	<0.0002	<0.0002				
11/2/2016	<0.0002				<0.0002	<0.0002
11/3/2016		<0.0002				
1/12/2017						<0.0002
1/13/2017	<0.0002	<0.0002			<0.0002	
3/6/2017	<0.0002	<0.0002			<0.0002	
3/7/2017						<0.0002
4/26/2017	<0.0002	<0.0002				
5/1/2017					<0.0002	<0.0002
6/27/2017						<0.0002
6/29/2017	<0.0002	<0.0002			<0.0002	
10/11/2017			<0.0002			
10/12/2017				<0.0002		
11/20/2017			7E-05 (J)	8E-05 (J)		
1/10/2018				<0.0002		
1/11/2018			<0.0002			
2/19/2018				<0.0002		
2/20/2018			<0.0002			
3/29/2018	<0.0002	<0.0002			<0.0002	<0.0002
4/3/2018			<0.0002	<0.0002		
6/28/2018			<0.0002	3.6E-05 (J)		
8/7/2018			<0.0002	<0.0002		
9/24/2018			<0.0002	<0.0002		
9/25/2018	<0.0002	<0.0002				
9/26/2018					<0.0002	<0.0002
3/4/2019					<0.0002	<0.0002
3/5/2019	<0.0002	<0.0002				
8/21/2019			<0.0002	<0.0002		
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/8/2021						<0.0002
2/9/2021	<0.0002	<0.0002			<0.0002	
2/10/2021			<0.0002	<0.0002		
3/2/2021						<0.0002
3/3/2021	<0.0002				<0.0002	
3/4/2021		<0.0002	<0.0002	<0.0002		
8/26/2021			<0.0002		<0.0002	<0.0002
8/27/2021	<0.0002					
9/1/2021		<0.0002				
9/3/2021				0.00012 (J)		
2/8/2022			<0.0002	0.00013 (J)		
2/9/2022	<0.0002	<0.0002				
2/10/2022						<0.0002
2/11/2022					<0.0002	
8/30/2022		<0.0002				<0.0002
8/31/2022	<0.0002		<0.0002	0.00064	<0.0002	
2/7/2023	0.00015 (J)	0.00017 (J)	<0.0002			<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2023				<0.0002		
2/9/2023					<0.0002	
8/15/2023	<0.0002	<0.0002	<0.0002	0.00037	0.00013 (J)	0.00015 (J)
2/20/2024	<0.0002	<0.0002	<0.0002	0.00032	<0.0002	<0.0002
8/20/2024	<0.0002	<0.0002			<0.0002	<0.0002
8/21/2024			<0.0002	0.00033		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.0002				
9/11/2007		<0.0002				
3/20/2008		<0.0002				
8/27/2008		<0.0002				
3/3/2009		<0.0002				
11/18/2009		<0.0002				
3/3/2010		<0.0002				
9/8/2010		<0.0002				
3/10/2011		<0.0002				
9/8/2011		<0.0002				
3/5/2012		<0.0002				
9/10/2012		<0.0002				
2/6/2013		<0.0002				
8/12/2013		<0.0002				
2/5/2014		<0.0002				
8/5/2014		<0.0002				
2/4/2015		<0.0002				
8/3/2015		<0.0002				
2/16/2016		1.36E-05 (J)				
6/1/2016				<0.0002	<0.0002	
6/2/2016	<0.0002		<0.0002			
7/25/2016					<0.0002	
7/26/2016	<0.0002		<0.0002	<0.0002		
8/31/2016		<0.0002				
9/13/2016				<0.0002	<0.0002	
9/14/2016	<0.0002					<0.0002
9/15/2016			<0.0002			
11/1/2016				<0.0002		
11/2/2016			<0.0002			
11/4/2016	<0.0002				<0.0002	<0.0002
11/28/2016		<0.0002				
12/15/2016						<0.0002
1/10/2017			<0.0002			
1/11/2017				<0.0002		
1/12/2017	<0.0002					
1/16/2017					<0.0002	<0.0002
2/22/2017		<0.0002				
3/2/2017				<0.0002	<0.0002	
3/3/2017						<0.0002
3/7/2017	<0.0002					
3/8/2017			<0.0002			
4/26/2017			<0.0002			
4/27/2017				<0.0002	<0.0002	
4/28/2017						<0.0002
5/2/2017	<0.0002					
5/8/2017		<0.0002				
5/26/2017						<0.0002
6/27/2017	<0.0002			<0.0002	<0.0002	
6/28/2017						<0.0002
6/30/2017			<0.0002			
7/17/2017		<0.0002				
10/16/2017		<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.0002				
3/27/2018			<0.0002		<0.0002	
3/28/2018						<0.0002
3/29/2018	<0.0002			<0.0002		
8/6/2018		<0.0002				
9/26/2018	<0.0002					
2/25/2019		7.4E-05 (J)				
2/26/2019			6.1E-05 (J)			
2/27/2019				5.1E-05 (J)	5.4E-05 (J)	<0.0002
3/4/2019	<0.0002					
3/28/2019				4E-05 (J)	<0.0002	
3/29/2019			<0.0002			<0.0002
6/12/2019		<0.0002				
8/19/2019		<0.0002				
9/24/2019				<0.0002	<0.0002	<0.0002
9/25/2019			<0.0002			
10/8/2019		<0.0002				
2/10/2020				<0.0002	<0.0002	
2/11/2020						<0.0002
2/12/2020	<0.0002		<0.0002			
5/6/2020		<0.0002				
8/26/2020		<0.0002				
9/22/2020		<0.0002				
2/8/2021	<0.0002					
2/10/2021			<0.0002			<0.0002
2/12/2021				<0.0002	<0.0002	
3/2/2021	<0.0002	<0.0002				
8/20/2021		<0.0002				
8/26/2021	<0.0002					
2/8/2022		<0.0002				
2/9/2022				<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002		<0.0002			
8/30/2022	<0.0002	<0.0002		<0.0002		<0.0002
8/31/2022			<0.0002		<0.0002	
2/7/2023		0.00013 (J)		<0.0002	<0.0002	<0.0002
2/8/2023			<0.0002			
2/9/2023	<0.0002					
8/15/2023	0.00014 (J)	<0.0002	0.00016 (J)	0.00015 (J)	0.00015 (J)	0.00015 (J)
2/20/2024	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/23/2024			<0.0002			
8/20/2024	<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 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.0002		
6/2/2016	<0.0002	<0.0002			
7/25/2016	<0.0002		<0.0002		
7/26/2016		<0.0002			
9/1/2016				<0.0002	
9/14/2016			<0.0002		
9/15/2016		<0.0002			
9/19/2016	<0.0002				
11/1/2016	<0.0002	<0.0002	<0.0002		
11/16/2016				<0.0002	
1/11/2017		<0.0002	<0.0002		
1/16/2017	<0.0002				
2/21/2017	<0.0002				
2/27/2017				<0.0002	
3/1/2017			<0.0002		
3/2/2017		<0.0002			
4/26/2017	<0.0002	<0.0002	<0.0002		
5/8/2017				<0.0002	
6/28/2017		<0.0002	<0.0002		
6/30/2017	<0.0002				
7/13/2017				<0.0002	
10/11/2017				<0.0002	
3/27/2018	<0.0002				
3/28/2018		<0.0002	<0.0002		
4/4/2018				<0.0002	
9/19/2018				7E-05 (J)	
2/26/2019	6.8E-05 (J)				
2/27/2019		6.2E-05 (J)	6.1E-05 (J)		
4/1/2019	8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)		
8/21/2019				<0.0002	
9/25/2019	<0.0002	<0.0002	<0.0002		
2/11/2020			<0.0002		
2/12/2020	<0.0002	<0.0002			
7/6/2020				<0.0002	
8/27/2020					<0.0002
8/28/2020				<0.0002	
11/12/2020				<0.0002	<0.0002
2/10/2021		<0.0002	<0.0002		
2/11/2021	<0.0002				
8/20/2021					<0.0002
8/27/2021				<0.0002	
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002
2/11/2022	<0.0002				
8/31/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/8/2023	<0.0002	<0.0002	<0.0002		
2/10/2023				<0.0002	<0.0002
8/15/2023		0.00014 (J)		<0.0002	<0.0002
8/16/2023	<0.0002		<0.0002		
2/20/2024	<0.0002	<0.0002	<0.0002		
2/21/2024				<0.0002	<0.0002
8/20/2024	<0.0002	<0.0002	<0.0002		
8/21/2024				<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/22/2024					<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.01	<0.01
6/7/2016				<0.01		
7/27/2016				<0.01	<0.01	<0.01
8/30/2016	<0.01					
8/31/2016		<0.01	0.0024 (J)			
9/16/2016				<0.01		<0.01
9/19/2016					<0.01	
11/3/2016				<0.01	<0.01	<0.01
11/14/2016	<0.01		<0.01			
11/15/2016		<0.01				
1/11/2017				<0.01	<0.01	<0.01
2/24/2017	<0.01					
2/27/2017			0.0018 (J)			
2/28/2017		0.0005 (J)				
3/1/2017					<0.01	<0.01
3/2/2017				<0.01		
4/26/2017					<0.01	<0.01
5/2/2017				<0.01		
5/8/2017	<0.01	<0.01				
5/9/2017			0.0015 (J)			
6/28/2017					<0.01	<0.01
6/29/2017				<0.01		
7/11/2017	<0.01					
7/13/2017		<0.01	0.0015 (J)			
10/10/2017	<0.01	<0.01	0.0015 (J)			
3/28/2018				<0.01	<0.01	<0.01
4/2/2018	<0.01					
4/3/2018			<0.01			
4/4/2018		<0.01				
9/19/2018	<0.01	<0.01	<0.01			
3/5/2019				<0.01		<0.01
3/6/2019					<0.01	
8/20/2019	<0.01	<0.01	0.0011 (J)			
10/8/2019	<0.01	<0.01				
10/9/2019			0.0012 (J)			
2/11/2020				<0.01	<0.01	<0.01
3/17/2020	<0.01	<0.01	0.0016 (J)			
3/24/2020				<0.01	<0.01	<0.01
8/27/2020	<0.01	<0.01				
8/28/2020			0.0013 (J)			
9/22/2020	<0.01	<0.01				
9/23/2020			0.0011 (J)	<0.01	<0.01	<0.01
2/9/2021					<0.01	<0.01
3/1/2021	<0.01	<0.01	0.0012 (J)			
3/3/2021				<0.01	<0.01	<0.01
8/19/2021	<0.01	<0.01	0.0012 (J)			
8/26/2021						<0.01
8/27/2021				<0.01	<0.01	
2/8/2022	<0.01					
2/9/2022		<0.01	0.0012 (J)	<0.01	<0.01	<0.01
8/30/2022				<0.01	<0.01	<0.01
8/31/2022	<0.01	<0.01	0.0011 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/7/2023				<0.01	<0.01	<0.01
2/8/2023	<0.01	<0.01				
2/9/2023			0.00097 (J)			
8/15/2023	<0.01	<0.01	0.0011 (J)	<0.01	<0.01	<0.01
2/20/2024	<0.01			<0.01	<0.01	
2/21/2024		<0.01	0.00098 (J)			
2/23/2024						<0.01
8/20/2024	<0.01			<0.01	<0.01	
8/21/2024		<0.01	0.001 (J)			<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.01	0.0035 (J)
6/7/2016	<0.01	<0.01				
7/26/2016					<0.01	0.0042 (J)
7/27/2016	<0.01					
7/28/2016		<0.01				
9/14/2016					<0.01	0.0041 (J)
9/19/2016	<0.01	<0.01				
11/2/2016	<0.01				<0.01	0.0039 (J)
11/3/2016		<0.01				
1/12/2017						0.0041 (J)
1/13/2017	<0.01	<0.01			<0.01	
3/6/2017	<0.01	0.0007 (J)			<0.01	
3/7/2017						0.0047 (J)
4/26/2017	<0.01	0.0008 (J)				
5/1/2017					<0.01	0.0045 (J)
6/27/2017						0.004 (J)
6/29/2017	<0.01	<0.01			<0.01	
10/11/2017			0.0094 (J)			
10/12/2017				<0.01		
11/20/2017			0.0081 (J)	<0.01		
1/10/2018				<0.01		
1/11/2018			0.0074 (J)			
2/19/2018				<0.01		
2/20/2018			<0.01			
3/29/2018	<0.01	<0.01			<0.01	<0.01
4/3/2018			0.006 (J)	<0.01		
6/28/2018			0.005 (J)	<0.01		
8/7/2018			0.0045 (J)	<0.01		
9/24/2018			0.0035 (J)	<0.01		
3/4/2019					<0.01	<0.01
3/5/2019	<0.01	<0.01				
8/21/2019			0.0021 (J)	<0.01		
10/9/2019			0.0018 (J)	<0.01		
2/12/2020	<0.01	<0.01	0.0025 (J)	<0.01	<0.01	0.0011 (J)
3/24/2020	<0.01	<0.01		<0.01		0.0011 (J)
3/25/2020			0.002 (J)		<0.01	
9/22/2020					<0.01	0.00099 (J)
9/24/2020	<0.01	<0.01	0.0016 (J)	<0.01		
2/8/2021						0.0011 (J)
2/9/2021	<0.01	<0.01			<0.01	
2/10/2021			0.0013 (J)	<0.01		
3/2/2021						<0.01
3/3/2021	<0.01				<0.01	
3/4/2021		<0.01	0.0014 (J)	<0.01		
8/26/2021			0.0027 (J)		<0.01	0.001 (J)
8/27/2021	<0.01					
9/1/2021		<0.01				
9/3/2021				<0.01		
2/8/2022			0.0035 (J)	<0.01		
2/9/2022	<0.01	<0.01				
2/10/2022						0.00096 (J)
2/11/2022					<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
8/30/2022		<0.01				0.00089 (J)
8/31/2022	<0.01		0.0036 (J)	<0.01	<0.01	
2/7/2023	<0.01	<0.01	0.0045 (J)			0.00095 (J)
2/8/2023				<0.01		
2/9/2023					<0.01	
8/15/2023	<0.01	<0.01	0.0061 (J)	<0.01	<0.01	0.0009 (J)
2/20/2024	<0.01	<0.01	0.0058 (J)	<0.01	<0.01	0.001 (J)
8/20/2024	<0.01	<0.01			<0.01	0.00074 (J)
8/21/2024			0.0068 (J)	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.014 (J)	0.012 (J)	
6/2/2016	<0.01		<0.01			
7/25/2016					0.0098 (J)	
7/26/2016	<0.01		<0.01	0.0132		
8/31/2016		<0.01				
9/13/2016				0.0127	0.01 (J)	
9/14/2016	<0.01					0.0039 (J)
9/15/2016			<0.01			
11/1/2016				0.0092 (J)		
11/2/2016			<0.01			
11/4/2016	<0.01				0.01	0.0077 (J)
11/28/2016		<0.01				
12/15/2016						0.0066 (J)
1/10/2017			<0.01			
1/11/2017				0.0093 (J)		
1/12/2017	<0.01					
1/16/2017					0.0086 (J)	0.0056 (J)
2/22/2017		<0.01				
3/2/2017				0.0099 (J)	0.01	
3/3/2017						0.0049 (J)
3/7/2017	<0.01					
3/8/2017			<0.01			
4/26/2017			<0.01			
4/27/2017				0.0103	0.0101	
4/28/2017						0.004 (J)
5/2/2017	<0.01					
5/8/2017		<0.01				
5/26/2017						0.0029 (J)
6/27/2017	<0.01			0.0097 (J)	0.0093 (J)	
6/28/2017						0.0036 (J)
6/30/2017			<0.01			
7/17/2017		<0.01				
10/16/2017		<0.01				
2/19/2018		<0.01				
3/27/2018			<0.01		0.0074 (J)	
3/28/2018						0.0038 (J)
3/29/2018	<0.01			0.0076 (J)		
6/5/2018				0.0092 (J)		
6/6/2018					0.0073 (J)	
6/7/2018						0.004 (J)
6/8/2018			<0.01			
8/6/2018		<0.01				
10/1/2018			<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)
2/26/2019			<0.01			
2/27/2019				0.0087 (J)	0.0078 (J)	0.0041 (J)
3/4/2019	<0.01					
3/28/2019				0.0092 (J)	0.0082 (J)	
3/29/2019			<0.01			0.0041 (J)
8/19/2019		<0.01				
9/24/2019				0.0072 (J)	0.0074 (J)	0.0054 (J)
9/25/2019			<0.01			
2/10/2020				0.0087 (J)	0.0062 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/11/2020						0.0057 (J)
2/12/2020	<0.01		<0.01			
3/18/2020			<0.01		0.0056 (J)	
3/19/2020				0.0088 (J)		0.0046 (J)
3/24/2020	<0.01					
8/26/2020		<0.01				
9/22/2020	<0.01					
9/23/2020				0.008 (J)	0.0059 (J)	0.0071 (J)
9/25/2020			<0.01			
2/8/2021	<0.01					
2/10/2021			<0.01			0.0041 (J)
2/12/2021				0.008 (J)	0.0056 (J)	
3/2/2021	<0.01		<0.01			
3/3/2021				0.0088 (J)	0.0049 (J)	0.0074 (J)
8/19/2021			<0.01	0.0083 (J)	0.005 (J)	
8/20/2021		<0.01				
8/26/2021	<0.01					
8/27/2021						0.0048 (J)
2/8/2022		<0.01				
2/9/2022				0.0093 (J)	0.0055 (J)	0.0057 (J)
2/10/2022	<0.01		<0.01			
8/30/2022	<0.01	<0.01		0.0094 (J)		0.0068 (J)
8/31/2022			<0.01		0.0055 (J)	
2/7/2023		<0.01		<0.01	<0.01	0.0061 (J)
2/8/2023			<0.01			
2/9/2023	<0.01					
8/15/2023	<0.01	<0.01	<0.01	0.0098 (J)	0.0047 (J)	0.0071 (J)
2/20/2024	<0.01	<0.01		0.0098 (J)	0.03	0.0076 (J)
2/23/2024			<0.01			
8/20/2024	<0.01		<0.01	0.01	0.0039 (J)	0.011

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.0055 (J)		
6/2/2016	<0.01	0.0093 (J)			
7/25/2016	<0.01		0.0037 (J)		
7/26/2016		0.0113			
9/1/2016				<0.01	
9/14/2016			0.0034 (J)		
9/15/2016		0.0112			
9/19/2016	<0.01				
11/1/2016	<0.01	0.0099 (J)	0.0025 (J)		
11/16/2016				<0.01	
1/11/2017		0.0093 (J)	0.0033 (J)		
1/16/2017	<0.01				
2/21/2017	<0.01				
2/27/2017				<0.01	
3/1/2017			0.0044 (J)		
3/2/2017		0.0103			
4/26/2017	<0.01	0.01	0.0075 (J)		
5/8/2017				0.0008 (J)	
6/28/2017		0.0102	0.008 (J)		
6/30/2017	<0.01				
7/13/2017				0.0015 (J)	
10/11/2017				0.002 (J)	
3/27/2018	<0.01				
3/28/2018		0.011	0.0025 (J)		
4/4/2018				0.0021 (J)	
6/7/2018		0.011			
6/8/2018			0.0041 (J)		
6/11/2018	<0.01				
9/19/2018				0.0039 (J)	
10/1/2018		0.012	0.0037 (J)		
10/2/2018	<0.01				
2/26/2019	<0.01				
2/27/2019		0.011	0.0027 (J)		
4/1/2019	<0.01	0.012	0.0021 (J)		
8/21/2019				0.0012 (J)	
9/25/2019	<0.01	0.012	0.0087 (J)		
10/9/2019				0.0013 (J)	
2/11/2020			0.003 (J)		
2/12/2020	<0.01	0.013			
3/17/2020				0.0015 (J)	
3/19/2020	<0.01	0.013	0.0043 (J)		
7/6/2020				0.0026 (J)	
8/27/2020					<0.01
8/28/2020				0.003 (J)	
9/22/2020					<0.01
9/23/2020		0.012	0.01	0.0025 (J)	
9/24/2020	<0.01				
10/7/2020				0.0024 (J)	<0.01
11/12/2020				0.0019 (J)	<0.01
2/10/2021		0.014	0.0038 (J)		
2/11/2021	<0.01				
3/1/2021	<0.01				<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.0023 (J)	
3/3/2021		0.013	0.0036 (J)		
8/19/2021	<0.01	0.013			
8/20/2021					<0.01
8/27/2021			0.0099 (J)	0.0022 (J)	
2/9/2022		0.013	0.0087 (J)	0.0021 (J)	<0.01
2/11/2022	<0.01				
8/31/2022	<0.01	0.011	0.0068 (J)	0.0017 (J)	<0.01
2/8/2023	<0.01	0.012	0.0065 (J)		
2/10/2023				0.0029 (J)	0.00083 (J)
8/15/2023		0.012		0.0031 (J)	<0.01
8/16/2023	<0.01		0.012		
2/20/2024	<0.01	0.013	0.0089 (J)		
2/21/2024				0.0032 (J)	<0.01
8/20/2024	<0.01	0.012	0.0058 (J)		
8/21/2024				0.0038 (J)	
8/22/2024					<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					6.17	5.71
6/7/2016				5.62		
7/27/2016				5.59	6.14	5.46
8/30/2016	5.75					
8/31/2016		6.01	7.15			
9/16/2016				5.58		
9/19/2016					6.04	5.59
11/3/2016				5.59	5.97	5.39
11/14/2016	5.59		6.96			
11/15/2016		5.91				
1/11/2017				5.59	6.05	5.48
2/24/2017	5.49					
2/27/2017			6.79			
2/28/2017		5.85				
3/1/2017					5.94	5.41
3/2/2017				5.54		
4/26/2017					5.99	5.4
5/2/2017				5.47		
5/8/2017	5.58	5.91				
5/9/2017			6.9			
6/28/2017					6	5.36
6/29/2017				5.56		
7/11/2017	5.58					
7/13/2017		5.8	6.77			
10/4/2017				5.57		5.32
10/5/2017					6.11	
10/10/2017	5.49	5.76	6.9			
3/28/2018				5.59	6.1	5.34
4/2/2018	6.3					
4/3/2018			6.44			
4/4/2018		5.77				
6/7/2018					5.98	
6/11/2018				5.58		5.28
9/19/2018	5.48	5.77	6.47			
9/25/2018				5.59	5.81	4.86
3/5/2019				5.48		5.26
3/6/2019					5.99	
3/27/2019	5.83	6.1	7.18			
4/2/2019				5.74		
4/3/2019					6.29	5.47
8/20/2019	5.58	5.78	6.48			
9/25/2019				5.49		
9/26/2019					6.04	5.2
10/8/2019	5.59	5.84				
10/9/2019			6.55			
2/11/2020				5.58	6.07	5.3
3/17/2020	5.57	5.9	6.69			
3/24/2020				5.57	5.98	5.33
8/27/2020	4.88	5.75				
8/28/2020			6.84			
9/22/2020	5.46	5.53				
9/23/2020			6.57	5.58	6.01	5.29

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/9/2021					6.12	5.43
3/1/2021	5.48	5.76	6.5			
3/3/2021				5.52	5.89	5.31
8/19/2021	5.5	5.73	6.13			
8/26/2021						4.4
8/27/2021				5.27	5.4	
2/8/2022	5.4					
2/9/2022		5.73	6.15	5.53	5.98	5.28
8/30/2022				4.68	5.82	5.18
8/31/2022	5.32	5.77	6.56			
2/7/2023				5.47	6	5.03
2/8/2023	5.22	5.6				
2/9/2023			6.47			
8/15/2023	5.69	5.79	6.97	5.54	5.82	5.2
2/20/2024	5.62			5.64	6.11	
2/21/2024		5.82	6.35			
2/23/2024						5.3
8/20/2024	5.48			5.45	5.74	
8/21/2024		5.8	6.54			5.29

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					6.36	7.67
6/7/2016	5.77	6.1				
7/26/2016					6.22	7.66
7/27/2016	5.79					
7/28/2016		6.12				
9/14/2016					6.23	7.6
9/19/2016	5.73	6.12				
11/2/2016	5.67				6.08	7.35
11/3/2016		6.07				
1/12/2017						7.49
1/13/2017	5.79	6.41			6.19	
3/6/2017	5.63	6.34			6.2	
3/7/2017						7.43
4/26/2017	5.66	6.32				
5/1/2017					6.21	7.22
6/27/2017						7.32
6/29/2017	5.85	6.47			6.21	
10/3/2017		6.56				7.48
10/4/2017	5.83					
10/5/2017					6.16	
10/11/2017			6.4			
10/12/2017				5.43		
11/20/2017			6.33	5.1		
1/10/2018				4.97		
1/11/2018			6.29			
2/19/2018				5.6		
2/20/2018			7.22			
3/29/2018	5.93	6.75			6.09	7.02
4/3/2018			6.87	5.84		
6/5/2018		6.09				
6/6/2018	5.86					7.43
6/7/2018					6.12	
6/28/2018			6.18	5.24		
8/7/2018			6.08	5.18		
9/24/2018			5.81	5.14		
9/25/2018	5.84	6.67				
9/26/2018					5.84	7.13
3/4/2019					6.18	7.46
3/5/2019	6.07	7.22				
3/26/2019				5.3		
3/27/2019			5.84			
4/2/2019		6.94				
4/3/2019	5.71				6.43	7.11
8/21/2019			5.96	5.26		
9/24/2019		6.87				6.93
9/25/2019	5.86				6.2	
10/9/2019			5.81	5.22		
2/12/2020	6	7.13	5.97	5.3	6.15	7.52
3/24/2020	5.86	6.35		5.29		7.34
3/25/2020			5.78		6.26	
9/22/2020					5.8	7.19
9/24/2020	5.8	6.7	5.7	5.43		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/9/2021	5.86	6.95			6.06	
2/10/2021			5.8	5.19		
3/2/2021						7.15
3/3/2021	5.89				6.21	
3/4/2021		6.8	5.54	5.23		
8/26/2021			6.91		5.82	7.16
8/27/2021	5.57					
9/1/2021		6.65				
9/3/2021				4.75		
2/8/2022			5.78	5.26		
2/9/2022	5.91	6.84				
2/10/2022						6.99
2/11/2022					5.95	
8/30/2022		6.58				7.4
8/31/2022	5.38		5.3	4.53	5.5	
2/7/2023	5.63	6.82	5.49			6.64
2/8/2023				5.71		
2/9/2023					6.23	
8/15/2023	7	6.84	5.78	5	5.99	7.34
2/20/2024	5.99	6.78	5.97	5.32	6.21	7.56
8/20/2024	6	6.6			6.03	7.3
8/21/2024			6	5.38		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
8/27/2008		6.53				
3/3/2009		6.35				
11/18/2009		6.47				
3/3/2010		6.53				
3/10/2011		5.83				
9/8/2011		5.69				
3/5/2012		6.27				
9/10/2012		6.23				
2/6/2013		7.56				
8/12/2013		6.68				
2/5/2014		6.32				
8/3/2015		6.13 (D)				
2/16/2016		5.64				
6/1/2016				7.46	6.33	
6/2/2016	5.75		5.46			
7/25/2016					6.21	
7/26/2016	5.72		5.45	7.43		
9/13/2016				7.44	6.16	7.41
9/14/2016	5.74					
9/15/2016			5.45			
11/1/2016				7.24		
11/2/2016			5.41			
11/4/2016	5.61				6.29	7.12
11/28/2016		6.23				
12/15/2016						7.24
1/10/2017			5.37			
1/11/2017				7.3		
1/12/2017	5.71					
1/16/2017					6.29	7.24
2/22/2017		6.21				
3/2/2017				7.23	6.28	
3/3/2017						7.22
3/7/2017	5.66					
3/8/2017			5.41			
4/26/2017			5.02			
4/27/2017				6.99	6.09	
4/28/2017						7.21
5/2/2017	5.65					
5/8/2017		6.12				
5/26/2017						7.13
6/27/2017	5.7			6.87	6.21	
6/28/2017						7.06
6/30/2017			5.39			
7/17/2017		6.03				
10/3/2017	5.79			6.81	5.98	6.99
10/5/2017			5.49			
10/16/2017		6.12				
2/19/2018		6.13				
3/27/2018			5.47		6.25	
3/28/2018						7.3
3/29/2018	5.63			7.38		
6/5/2018				7.16		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/6/2018					6.17	
6/7/2018	5.63					7.29
6/8/2018			5.45			
8/6/2018		6.01				
9/26/2018	5.63					
10/1/2018			5.39	6.8	5.9	7.07
2/25/2019		6.51				
2/26/2019			5.46			
2/27/2019				6.84	5.8	7.27
3/4/2019	5.75					
3/28/2019				6.99	6.15	
3/29/2019			5.34			7.06
4/3/2019	5.63					
6/12/2019		6.3				
8/19/2019		6.23				
9/24/2019	5.6			7.07	6.23	7.01
9/25/2019			5.19			
10/8/2019		6.28				
2/10/2020				7.2	6.1	
2/11/2020						7.38
2/12/2020	5.83		5.48			
3/17/2020		6.14				
3/18/2020			5.38		6.19	
3/19/2020				7.03		7.22
3/24/2020	5.81					
5/6/2020		6.24				
8/26/2020		5.67				
9/22/2020	5.99	5.78				
9/23/2020				7.15	6.01	7.22
9/25/2020			5.44			
2/8/2021	5.67					
2/10/2021			5.35			7.29
2/12/2021				7.14	6.21	
3/2/2021	5.63	5.42	5.49			
3/3/2021				7.2	5.38	7.92
8/19/2021			7.32	6.32	6.38	
8/20/2021		5.86				
8/26/2021	5.51					
8/27/2021						7.14
2/8/2022		5.83				
2/9/2022				7.12	6.24	5.89
2/10/2022	5.14		4.5			
8/30/2022	5	5.39		7.2		7.04
8/31/2022			5.15		5.64	
2/7/2023		5.94		7.86	6.53	6.94
2/8/2023			5.39			
2/9/2023	5.9					
8/15/2023	5.58	5.3	5.03	6.98	5.88	6.96
2/20/2024	5.78	6.07		7.06	6.42	7.23
2/23/2024			5.39			
8/20/2024	5.58		5.49	7.18	5.77	6.91

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			7.72		
6/2/2016	5.75	7.84			
7/25/2016	5.82		7.74		
7/26/2016		7.88			
9/1/2016				6.19	
9/14/2016			7.65		
9/15/2016		7.74			
9/19/2016	5.78 (D)				
11/1/2016	5.62	7.75	7.7		
11/16/2016				6.05	
1/11/2017		7.66	7.53		
1/16/2017	5.72				
2/21/2017	5.67				
2/27/2017				6.01	
3/1/2017			7.42		
3/2/2017		7.68			
4/26/2017	5.56	7.45	7.4		
5/8/2017				6.1	
6/28/2017		7.65	7.5		
6/30/2017	5.72				
7/13/2017				6.07	
10/4/2017	5.87	7.49	7.45		
10/11/2017				5.93	
3/27/2018	5.83				
3/28/2018		7.91	7.74		
4/4/2018				6.01	
6/7/2018		7.69			
6/8/2018			7.64		
6/11/2018	5.69				
9/19/2018				6.09	
10/1/2018		7.39	7.47		
10/2/2018	5.39				
2/26/2019	5.77				
2/27/2019		7.55	7.54		
3/27/2019				6.2	
4/1/2019	5.62	7.87	7.74		
8/21/2019				5.82	
9/25/2019	5.69	7.64	7.47		
10/9/2019				5.96	
2/11/2020			7.09		
2/12/2020	5.8	7.83			
3/17/2020				5.99	
3/19/2020	6	7.65	7.31		
7/6/2020				6.89	
8/27/2020					5.8
8/28/2020				7.05	
9/22/2020					5.91
9/23/2020		7.57	7.37	6.81	
9/24/2020	5.67				
10/7/2020				7.06	5.87
2/10/2021		7.81	7.58		
2/11/2021	5.73				

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/1/2021	5.78				5.84
3/2/2021				6.72	
3/3/2021		8.39	8.23		
8/19/2021		5.34			
8/20/2021					6.71
8/27/2021			7.39	6.83	
2/9/2022		7.97	7.66	6.98	5.99
2/11/2022	5.59				
8/31/2022	5.87	7.65	7.49	6.87	5.58
2/8/2023	6.43	7.88	7.73		
2/10/2023				7.32	6
8/15/2023		7.69		7.51	6.05
8/16/2023	5.55		7.39		
2/20/2024	5.81	7.81	7.59		
2/21/2024				7.51	5.74
8/20/2024	6.07	7.59	7.45		
8/21/2024				7.41	
8/22/2024					6.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.005	<0.005
6/7/2016				0.001 (J)		
7/27/2016				0.0012 (J)	<0.005	<0.005
8/30/2016	0.0017 (J)					
8/31/2016		<0.005	<0.005			
9/16/2016				0.0015 (J)		<0.005
9/19/2016					<0.005	
11/3/2016				0.0015 (J)	<0.005	<0.005
11/14/2016	<0.005		<0.005			
11/15/2016		<0.005				
1/11/2017				0.0014 (J)	<0.005	<0.005
2/24/2017	0.0011 (J)					
2/27/2017			<0.005			
2/28/2017		<0.005				
3/1/2017					<0.005	<0.005
3/2/2017				0.0017 (J)		
4/26/2017					<0.005	<0.005
5/2/2017				<0.005		
5/8/2017	<0.005	<0.005				
5/9/2017			<0.005			
6/28/2017					<0.005	<0.005
6/29/2017				<0.005		
7/11/2017	<0.005					
7/13/2017		<0.005	<0.005			
10/10/2017	<0.005	<0.005	<0.005			
3/28/2018				<0.005	<0.005	<0.005
4/2/2018	<0.005					
4/3/2018			<0.005			
4/4/2018		<0.005				
6/7/2018					<0.005	
6/11/2018				<0.005		<0.005
9/19/2018	<0.005	<0.005	<0.005			
9/25/2018				<0.005	<0.005	<0.005
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
4/2/2019				<0.005		
4/3/2019					<0.005	<0.005
8/20/2019	<0.005	<0.005	<0.005			
9/25/2019				<0.005		
9/26/2019					<0.005	<0.005
2/11/2020				<0.005	<0.005	<0.005
3/24/2020				<0.005	<0.005	<0.005
8/27/2020	<0.005	<0.005				
8/28/2020			<0.005			
9/23/2020				<0.005	<0.005	<0.005
2/9/2021					<0.005	<0.005
3/3/2021				<0.005	<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	<0.005					
2/9/2022		<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 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005			
2/7/2023				<0.005	<0.005	<0.005
2/8/2023	<0.005	<0.005				
2/9/2023			<0.005			
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005			<0.005	<0.005	
2/21/2024		<0.005	<0.005			
2/23/2024						<0.005
8/20/2024	<0.005			<0.005	<0.005	
8/21/2024		<0.005	<0.005			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.005	<0.005
6/7/2016	<0.005	0.00048 (J)				
7/26/2016					0.0009 (J)	<0.005
7/27/2016	<0.005					
7/28/2016		<0.005				
9/14/2016					<0.005	<0.005
9/19/2016	<0.005	0.0014 (J)				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		<0.005				
1/12/2017						<0.005
1/13/2017	<0.005	<0.005			<0.005	
3/6/2017	<0.005	<0.005			<0.005	
3/7/2017						<0.005
4/26/2017	<0.005	<0.005				
5/1/2017					<0.005	<0.005
6/27/2017						<0.005
6/29/2017	<0.005	<0.005			<0.005	
10/11/2017			<0.005			
10/12/2017				<0.005		
11/20/2017			<0.005	0.0042 (J)		
1/10/2018				0.0043 (J)		
1/11/2018			<0.005			
2/19/2018				<0.005		
2/20/2018			<0.005			
3/29/2018	<0.005	<0.005			<0.005	<0.005
4/3/2018			<0.005	<0.005		
6/5/2018		<0.005				
6/6/2018	<0.005					<0.005
6/7/2018					<0.005	
6/28/2018			<0.005	0.0032 (J)		
8/7/2018			<0.005	0.0031 (J)		
9/24/2018			0.0015 (J)	0.0026 (J)		
9/25/2018	<0.005	<0.005				
9/26/2018					<0.005	<0.005
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	<0.005				
4/2/2019		<0.005				
4/3/2019	<0.005				<0.005	<0.005
8/21/2019			<0.005	0.0024 (J)		
9/24/2019		<0.005				<0.005
9/25/2019	<0.005				<0.005	
10/9/2019			<0.005	0.0026 (J)		
2/12/2020	<0.005	<0.005	<0.005	0.002 (J)	<0.005	<0.005
3/24/2020	<0.005	<0.005		0.002 (J)		<0.005
3/25/2020			<0.005		<0.005	
9/22/2020					<0.005	<0.005
9/24/2020	<0.005	<0.005	<0.005	0.0016 (J)		
2/8/2021						<0.005
2/9/2021	<0.005	<0.005			<0.005	
2/10/2021			<0.005	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				0.0019 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		<0.005	<0.005	<0.005		
8/26/2021			<0.005		<0.005	<0.005
8/27/2021	<0.005					
9/1/2021		<0.005				
9/3/2021				<0.005		
2/8/2022			<0.005	0.0014 (J)		
2/9/2022	<0.005	<0.005				
2/10/2022						<0.005
2/11/2022					<0.005	
8/30/2022		<0.005				<0.005
8/31/2022	<0.005		<0.005	<0.005	<0.005	
2/7/2023	<0.005	<0.005	<0.005			<0.005
2/8/2023				<0.005		
2/9/2023					<0.005	
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/20/2024	<0.005	<0.005			<0.005	<0.005
8/21/2024			<0.005	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.005				
9/11/2007		<0.005				
3/20/2008		<0.005				
8/27/2008		<0.005				
3/3/2009		<0.005				
11/18/2009		<0.005				
3/3/2010		<0.005				
9/8/2010		<0.005				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		<0.005				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		<0.005				
2/5/2014		<0.005				
8/5/2014		<0.005				
2/4/2015		<0.005				
8/3/2015		<0.005				
2/16/2016		<0.005				
6/1/2016				<0.005	<0.005	
6/2/2016	<0.005		0.0011 (J)			
7/25/2016					<0.005	
7/26/2016	0.0009 (J)		0.0016 (J)	<0.005		
8/31/2016		<0.005				
9/13/2016				<0.005	<0.005	
9/14/2016	<0.005					<0.005
9/15/2016			0.0014 (J)			
11/1/2016				<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				<0.005	<0.005
11/28/2016		<0.005				
12/15/2016						<0.005
1/10/2017			0.0012 (J)			
1/11/2017				<0.005		
1/12/2017	<0.005					
1/16/2017					<0.005	<0.005
2/22/2017		<0.005				
3/2/2017				<0.005	<0.005	
3/3/2017						<0.005
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				<0.005	<0.005	
4/28/2017						<0.005
5/2/2017	<0.005					
5/8/2017		<0.005				
5/26/2017						<0.005
6/27/2017	<0.005			<0.005	<0.005	
6/28/2017						<0.005
6/30/2017			<0.005			
7/17/2017		<0.005				
10/16/2017		<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						<0.005
3/29/2018	<0.005			<0.005		
6/7/2018	<0.005					
8/6/2018		<0.005				
9/26/2018	<0.005					
2/25/2019		<0.005				
2/26/2019			<0.005			
2/27/2019				<0.005	<0.005	<0.005
3/4/2019	<0.005					
3/28/2019				<0.005	<0.005	
3/29/2019			0.0019 (J)			<0.005
4/3/2019	<0.005					
6/12/2019		<0.005				
8/19/2019		<0.005				
9/24/2019	<0.005			<0.005	<0.005	<0.005
9/25/2019			<0.005			
10/8/2019		<0.005				
2/10/2020				<0.005	<0.005	
2/11/2020						<0.005
2/12/2020	<0.005		<0.005			
3/17/2020		<0.005				
3/18/2020			<0.005		<0.005	
3/19/2020				<0.005		<0.005
3/24/2020	<0.005					
8/26/2020		<0.005				
9/22/2020	<0.005	<0.005				
9/23/2020				<0.005	<0.005	<0.005
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				<0.005	<0.005	
3/2/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	<0.005
8/19/2021			<0.005	<0.005	<0.005	
8/20/2021		<0.005				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		<0.005				
2/9/2022				<0.005	<0.005	<0.005
2/10/2022	<0.005		0.0014 (J)			
8/30/2022	<0.005	<0.005		<0.005		<0.005
8/31/2022			<0.005		<0.005	
2/7/2023		<0.005		<0.005	<0.005	<0.005
2/8/2023			<0.005			
2/9/2023	<0.005					
8/15/2023	<0.005	<0.005	0.0014 (J)	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005
2/23/2024			0.001 (J)			
8/20/2024	<0.005		0.0012 (J)	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	<0.005	<0.005			
7/25/2016	<0.005		<0.005		
7/26/2016		<0.005			
9/1/2016				<0.005	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	<0.005				
11/1/2016	<0.005	<0.005	<0.005		
11/16/2016				<0.005	
1/11/2017		<0.005	<0.005		
1/16/2017	<0.005				
2/21/2017	<0.005				
2/27/2017				<0.005	
3/1/2017			<0.005		
3/2/2017		<0.005			
4/26/2017	<0.005	<0.005	<0.005		
5/8/2017				<0.005	
6/28/2017		<0.005	<0.005		
6/30/2017	<0.005				
7/13/2017				<0.005	
10/11/2017				<0.005	
3/27/2018	<0.005				
3/28/2018		<0.005	<0.005		
4/4/2018				<0.005	
9/19/2018				<0.005	
2/26/2019	<0.005				
2/27/2019		<0.005	<0.005		
4/1/2019	<0.005	<0.005	<0.005		
8/21/2019				<0.005	
9/25/2019	<0.005	<0.005	<0.005		
2/11/2020			<0.005		
2/12/2020	<0.005	<0.005			
3/19/2020	<0.005	<0.005	<0.005		
7/6/2020				<0.005	
8/27/2020					<0.005
8/28/2020				<0.005	
9/23/2020		<0.005	<0.005		
9/24/2020	<0.005				
11/12/2020				<0.005	<0.005
2/10/2021		<0.005	<0.005		
2/11/2021	<0.005				
3/1/2021	<0.005				
3/3/2021		<0.005	<0.005		
8/19/2021	<0.005	<0.005			
8/20/2021					<0.005
8/27/2021			<0.005	<0.005	
2/9/2022		<0.005	<0.005	<0.005	<0.005
2/11/2022	<0.005				
8/31/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023	<0.005	<0.005	<0.005		
2/10/2023				<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/15/2023		<0.005		<0.005	<0.005
8/16/2023	<0.005		<0.005		
2/20/2024	<0.005	<0.005	<0.005		
2/21/2024				<0.005	<0.005
8/20/2024	<0.005	<0.005	<0.005		
8/21/2024				<0.005	
8/22/2024					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					1.2	1.8
6/7/2016				4.4		
7/27/2016				4.7	1.7	1.9
8/30/2016	160					
8/31/2016		150	190			
9/16/2016				4.8		1.7
9/19/2016					1.8	
11/3/2016				5.3	0.69 (J)	1.9
11/14/2016	150		200			
11/15/2016		150				
1/11/2017				5.2	<1	1.7
2/24/2017	120					
2/27/2017			190			
2/28/2017		130				
3/1/2017					1.8	<1.5
3/2/2017				5		
4/26/2017					1.6	1.9
5/2/2017				5		
5/8/2017	120	150				
5/9/2017			190			
6/28/2017					<1	<1.5
6/29/2017				5.2		
7/11/2017	110					
7/13/2017		150	180			
10/4/2017				5.3		1.7
10/5/2017					1.6	
10/10/2017	93	140	180			
4/2/2018	88.8					
4/3/2018			183			
4/4/2018		137				
6/7/2018					0.68 (J)	
6/11/2018				5.2		0.95 (J)
9/19/2018	75	137	192			
9/25/2018				6.1	1	1.5
3/27/2019	65.9	146	188			
4/2/2019				5.1		
4/3/2019					0.82 (J)	1.3
9/25/2019				5.5		
9/26/2019					0.64 (J)	1
10/8/2019	52.3	142				
10/9/2019			183			
3/17/2020	71.6	121	161			
3/24/2020				5.4	<1	0.99 (J)
9/22/2020	51.5	130				
9/23/2020			170	5.1	0.53 (J)	1.1
3/1/2021	51.6	119	159			
3/3/2021				5.2	<1	1
8/19/2021	52.6	115	149			
8/26/2021						1.2
8/27/2021				5.3	0.59 (J)	
2/8/2022	50.9					
2/9/2022		121	164	4.8	0.51 (J)	1.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				4.7	0.78 (J)	1.3
8/31/2022	48	130	177			
2/7/2023				4.9	0.78 (J)	1.2
2/8/2023	50.5	130				
2/9/2023			193			
8/15/2023	47.7	113	154	4.6	0.51 (J)	0.88 (J)
2/20/2024	51			4.6	<1	
2/21/2024		124	170			
2/23/2024						0.79 (J)
8/20/2024	53.9			4.6	0.74 (J)	
8/21/2024		121	166			1.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					8	20
6/7/2016	<1	5.2				
7/26/2016					7.7	20
7/27/2016	0.08 (J)					
7/28/2016		5.1				
9/14/2016					7.5	19
9/19/2016	0.08 (J)	4.8				
11/2/2016	0.1 (J)				8.2	20
11/3/2016		5				
1/12/2017						19
1/13/2017	<1	4.3			8.1	
3/6/2017	<1	4.5			8	
3/7/2017						20
4/26/2017	<1	4.9				
5/1/2017					8.4	20
6/27/2017						18
6/29/2017	<1	5.5			9.2	
10/3/2017		5.8				16
10/4/2017	<1					
10/5/2017					9.6	
10/11/2017			20			
10/12/2017				17		
11/20/2017			24	71		
1/10/2018				66		
1/11/2018			23			
2/19/2018				57.2		
2/20/2018			20.6			
4/3/2018			24.5	49.4		
6/5/2018		6.1				
6/6/2018	0.049 (J)					8.3
6/7/2018					8.5	
6/28/2018			22	43.8		
8/7/2018			20.7	40.5		
9/24/2018			21.2	39.7		
9/25/2018	0.13 (J)	7				
9/26/2018					10.2	7.9
3/26/2019				34.3		
3/27/2019			17.7			
4/2/2019		3.8				
4/3/2019	0.12 (J)				8.5	7
9/24/2019		1				5.5
9/25/2019	<1				8.5	
10/9/2019			15	27.9		
3/24/2020	<1	3		25.2		5.9
3/25/2020			14.3		8.8	
9/22/2020					8.2	5.5
9/24/2020	<1	3.6	11.7	22.9		
3/2/2021						2.6
3/3/2021	<1				7.8	
3/4/2021		4.5	12	21.5		
8/26/2021			19.2		8.5	6
8/27/2021	<1					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		5				
9/3/2021				21.3		
2/8/2022			14.6	17.9		
2/9/2022	<1	3.9				
2/10/2022						4.9
2/11/2022					7.7	
8/30/2022		3.2				5.7
8/31/2022	<1		10.9	17.9	8	
2/7/2023	<1	3.8	9.7			5.2
2/8/2023				17.5		
2/9/2023					8.9	
8/15/2023	<1	4.1	7.6	16.4	7.5	4.8
2/20/2024	<1	3.8	8.6	17.2	8.5	5.1
8/20/2024	<1	4			8.7	4.3
8/21/2024			6.6	18.2		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				5	4.2	
6/2/2016	1.9		6.6			
7/25/2016					3.7	
7/26/2016	1.8		6.1	5.4		
8/31/2016		29				
9/13/2016				2.9	5.2	
9/14/2016	1.8					9.4
9/15/2016			6.1			
11/1/2016				3.9		
11/2/2016			6.3			
11/4/2016	2				5	13
11/28/2016		36				
12/15/2016						1.8
1/10/2017			5.9			
1/11/2017				3.7		
1/12/2017	1.9					
1/16/2017					7.9	11
2/22/2017		43				
3/2/2017				4.6	7.4	
3/3/2017						8.8
3/7/2017	2.1					
3/8/2017			7			
4/26/2017			7			
4/27/2017				5.2	7.4	
4/28/2017						10
5/2/2017	2					
5/8/2017		60				
5/26/2017						12
6/27/2017	2.1			5.9	6.4	
6/28/2017						11
6/30/2017			6.5			
7/17/2017		63				
10/3/2017	2.3			6.6	5.9	7.9
10/5/2017			7.9			
10/16/2017		62				
2/19/2018		64.6				
6/5/2018				6.4		
6/6/2018					4.4	
6/7/2018	2					8.8
6/8/2018			6.4			
8/6/2018		42.1				
9/26/2018	2.3					
10/1/2018			6.8	5.6	4	9.1
2/25/2019		42.1				
3/28/2019				8	4.3	
3/29/2019			7.3			9
4/3/2019	2.1					
6/12/2019		83.4				
9/24/2019	2.4			5.3	4.3	9.1
9/25/2019			6.6			
10/8/2019		128				
3/17/2020		98.6				

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			8.1		5.3	
3/19/2020				10		12.4
3/24/2020	2.1					
9/22/2020	2.1	145				
9/23/2020				8.1	3.4	11.8
9/25/2020			6.1			
3/2/2021	2.3	156	6			
3/3/2021				9	4.4	10.6
8/19/2021			6.7	8.9	4.9	
8/20/2021		121				
8/26/2021	2.4					
8/27/2021						16.7
2/8/2022		107				
2/9/2022				9.3	5.1	18
2/10/2022	2.4		6.2			
8/30/2022	2.4	101		10.2		20.1
8/31/2022			5.8		4.8	
2/7/2023		82.4		10.6	6.6	17.8
2/8/2023			6.1			
2/9/2023	2.9					
8/15/2023	2.2	74.2	6	9.6	4.6	17.2
2/20/2024	2.5	75		9.7	4.3	23.1
2/23/2024			7.1			
8/20/2024	2.6		7.6	12.2	4.9	21.3

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			12		
6/2/2016	1.3	5.8			
7/25/2016	1.2		8.4		
7/26/2016		6.7			
9/1/2016				770	
9/14/2016			8.6		
9/15/2016		6			
9/19/2016	1.2				
11/1/2016	1.3	4.9	8.9		
11/16/2016				780	
1/11/2017		4.5	8.6		
1/16/2017	<1.5				
2/21/2017	1.4				
2/27/2017				650	
3/1/2017			9.3		
3/2/2017		4.4			
4/26/2017	1.4	5.1	11		
5/8/2017				770	
6/28/2017		5.4	12		
6/30/2017	<1.5				
7/13/2017				630	
10/4/2017	1.4	6.2	12		
10/11/2017				540	
4/4/2018				430	
6/7/2018		6.7			
6/8/2018			9.6		
6/11/2018	1.1				
9/19/2018				395	
10/1/2018		7.1	9.1		
10/2/2018	1				
3/27/2019				437	
4/1/2019	0.96 (J)	7.2	8.5		
9/25/2019	0.81 (J)	7	13.8		
10/9/2019				<1	
3/17/2020				439	
3/19/2020	1.6	9	12.9		
7/6/2020				385	
8/27/2020					144
8/28/2020				394	
9/22/2020					156
9/23/2020		6.9	16.8	430	
9/24/2020	0.69 (J)				
10/7/2020				427	156
11/12/2020				385	147
3/1/2021	0.88 (J)				139
3/2/2021				387	
3/3/2021		7	9.6		
8/19/2021	1	7.5			
8/20/2021					122
8/27/2021			18.2	423	
2/9/2022		7.2	16	415	119
2/11/2022	2.8				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	1.1	6.9	13.9	459	122
2/8/2023	0.96 (J)	7.5	14.7		
2/10/2023				517	114
8/15/2023		6.8		419	96.5
8/16/2023	0.9 (J)		20.3		
2/20/2024	0.69 (J)	7	13.8		
2/21/2024				511	98.9
8/20/2024	0.74 (J)	7.7	13.7		
8/21/2024				518	
8/22/2024					87.1

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.001	<0.001
6/7/2016				<0.001		
7/27/2016				<0.001	<0.001	<0.001
8/30/2016	<0.001					
8/31/2016		<0.001	<0.001			
9/16/2016				<0.001		<0.001
9/19/2016					<0.001	
11/3/2016				<0.001	<0.001	<0.001
11/14/2016	<0.001		<0.001			
11/15/2016		<0.001				
1/11/2017				<0.001	<0.001	<0.001
2/24/2017	<0.001					
2/27/2017			<0.001			
2/28/2017		<0.001				
3/1/2017					<0.001	<0.001
3/2/2017				<0.001		
4/26/2017					<0.001	<0.001
5/2/2017				<0.001		
5/8/2017	<0.001	<0.001				
5/9/2017			<0.001			
6/28/2017					<0.001	<0.001
6/29/2017				<0.001		
7/11/2017	<0.001					
7/13/2017		<0.001	<0.001			
10/10/2017	<0.001	<0.001	<0.001			
3/28/2018				<0.001	<0.001	<0.001
4/2/2018	<0.001					
4/3/2018			<0.001			
4/4/2018		<0.001				
9/19/2018	<0.001	<0.001	<0.001			
3/5/2019				<0.001		<0.001
3/6/2019					<0.001	
4/2/2019				<0.001		
4/3/2019					<0.001	<0.001
8/20/2019	5.8E-05 (J)	<0.001	<0.001			
9/25/2019				<0.001		
9/26/2019					<0.001	<0.001
10/8/2019	8.4E-05 (J)	<0.001				
10/9/2019			<0.001			
2/11/2020				<0.001	<0.001	<0.001
3/17/2020	<0.001	8E-05 (J)	<0.001			
3/24/2020				<0.001	<0.001	<0.001
8/27/2020	<0.001	<0.001				
8/28/2020			<0.001			
9/23/2020				<0.001	<0.001	<0.001
2/9/2021					<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001			
2/8/2022	<0.001					
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2022				<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001			
2/7/2023				<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/8/2023	<0.001	<0.001				
2/9/2023			<0.001			
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001			<0.001	<0.001	
2/21/2024		<0.001	<0.001			
2/23/2024						<0.001
8/20/2024	<0.001			<0.001	<0.001	
8/21/2024		<0.001	<0.001			<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.001	<0.001
6/7/2016	<0.001	<0.001				
7/26/2016					<0.001	<0.001
7/27/2016	<0.001					
7/28/2016		<0.001				
9/14/2016					<0.001	<0.001
9/19/2016	<0.001	<0.001				
11/2/2016	<0.001				<0.001	<0.001
11/3/2016		<0.001				
1/12/2017						<0.001
1/13/2017	<0.001	<0.001			<0.001	
3/6/2017	<0.001	<0.001			<0.001	
3/7/2017						<0.001
4/26/2017	<0.001	<0.001				
5/1/2017					<0.001	<0.001
6/27/2017						<0.001
6/29/2017	<0.001	<0.001			<0.001	
10/11/2017			<0.001			
10/12/2017				<0.001		
11/20/2017			<0.001	<0.001		
1/10/2018				<0.001		
1/11/2018			<0.001			
2/19/2018				<0.001		
2/20/2018			<0.001			
3/29/2018	<0.001	<0.001			<0.001	<0.001
4/3/2018			<0.001	<0.001		
6/28/2018			<0.001	<0.001		
8/7/2018			<0.001	<0.001		
9/24/2018			<0.001	<0.001		
9/25/2018		<0.001				
3/4/2019					<0.001	<0.001
3/5/2019	<0.001	<0.001				
4/2/2019		<0.001				
4/3/2019	<0.001				<0.001	<0.001
8/21/2019			<0.001	<0.001		
9/24/2019		<0.001				<0.001
9/25/2019	<0.001				<0.001	
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/24/2020	<0.001	<0.001		<0.001		<0.001
3/25/2020			<0.001		<0.001	
9/22/2020					<0.001	<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001		
2/8/2021						<0.001
2/9/2021	<0.001	<0.001			<0.001	
2/10/2021			<0.001	<0.001		
2/8/2022			<0.001	<0.001		
2/9/2022	<0.001	<0.001				
2/10/2022						<0.001
2/11/2022					<0.001	
8/30/2022		<0.001				<0.001
8/31/2022	<0.001		<0.001	<0.001	<0.001	
2/7/2023	<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 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2023				<0.001		
2/9/2023					<0.001	
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2024	<0.001	<0.001			<0.001	<0.001
8/21/2024			<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.001				
9/11/2007		<0.001				
3/20/2008		<0.001				
8/27/2008		<0.001				
3/3/2009		<0.001				
11/18/2009		<0.001				
3/3/2010		<0.001				
9/8/2010		<0.001				
3/10/2011		<0.001				
9/8/2011		<0.001				
3/5/2012		<0.001				
9/10/2012		<0.001				
2/6/2013		<0.001				
8/12/2013		<0.001				
2/5/2014		<0.001				
8/5/2014		<0.001				
2/4/2015		<0.001				
2/16/2016		<0.001				
6/1/2016				<0.001	<0.001	
6/2/2016	<0.001		<0.001			
7/25/2016					<0.001	
7/26/2016	<0.001		<0.001	<0.001		
8/31/2016		<0.001				
9/13/2016				<0.001	<0.001	
9/14/2016	<0.001					<0.001
9/15/2016			<0.001			
11/1/2016				<0.001		
11/2/2016			<0.001			
11/4/2016	<0.001				<0.001	<0.001
11/28/2016		<0.001				
12/15/2016						<0.001
1/10/2017			<0.001			
1/11/2017				<0.001		
1/12/2017	<0.001					
1/16/2017					<0.001	<0.001
2/22/2017		<0.001				
3/2/2017				<0.001	<0.001	
3/3/2017						<0.001
3/7/2017	<0.001					
3/8/2017			<0.001			
4/26/2017			<0.001			
4/27/2017				<0.001	<0.001	
4/28/2017						<0.001
5/2/2017	<0.001					
5/8/2017		6E-05 (J)				
5/26/2017						<0.001
6/27/2017	<0.001			<0.001	<0.001	
6/28/2017						<0.001
6/30/2017			<0.001			
7/17/2017		6E-05 (J)				
10/16/2017		7E-05 (J)				
2/19/2018		<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/27/2018			<0.001		<0.001	
3/28/2018						<0.001
3/29/2018	<0.001			<0.001		
8/6/2018		<0.001				
2/25/2019		<0.001				
2/26/2019			<0.001			
2/27/2019				<0.001	<0.001	<0.001
3/4/2019	<0.001					
4/3/2019	<0.001					
6/12/2019		<0.001				
8/19/2019		5.5E-05 (J)				
9/24/2019	<0.001					
10/8/2019		<0.001				
2/10/2020				<0.001	5.5E-05 (J)	
2/11/2020						<0.001
2/12/2020	<0.001		8.9E-05 (J)			
3/17/2020		<0.001				
3/18/2020			<0.001		<0.001	
3/19/2020				<0.001		<0.001
3/24/2020	<0.001					
8/26/2020		<0.001				
9/22/2020	<0.001	<0.001				
9/23/2020				<0.001	<0.001	<0.001
9/25/2020			<0.001			
2/8/2021	<0.001					
2/10/2021			<0.001			<0.001
2/12/2021				<0.001	<0.001	
3/2/2021		<0.001				
8/20/2021		<0.001				
2/8/2022		<0.001				
2/9/2022				<0.001	<0.001	<0.001
2/10/2022	<0.001		<0.001			
8/30/2022	<0.001	<0.001		<0.001		<0.001
8/31/2022			<0.001		<0.001	
2/7/2023		<0.001		<0.001	<0.001	<0.001
2/8/2023			<0.001			
2/9/2023	<0.001					
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001
2/23/2024			<0.001			
8/20/2024	<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 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.001		
6/2/2016	<0.001	<0.001			
7/25/2016	<0.001		<0.001		
7/26/2016		0.0001 (J)			
9/1/2016				<0.001	
9/14/2016			<0.001		
9/15/2016		<0.001			
9/19/2016	<0.001				
11/1/2016	<0.001	<0.001	<0.001		
11/16/2016				<0.001	
1/11/2017		<0.001	<0.001		
1/16/2017	<0.001				
2/21/2017	<0.001				
2/27/2017				<0.001	
3/1/2017			<0.001		
3/2/2017		<0.001			
4/26/2017	<0.001	<0.001	<0.001		
5/8/2017				<0.001	
6/28/2017		<0.001	<0.001		
6/30/2017	<0.001				
7/13/2017				<0.001	
10/11/2017				<0.001	
3/27/2018	<0.001				
3/28/2018		<0.001	<0.001		
4/4/2018				<0.001	
9/19/2018				<0.001	
2/26/2019	<0.001				
2/27/2019		<0.001	<0.001		
8/21/2019				<0.001	
10/9/2019				<0.001	
2/11/2020			<0.001		
2/12/2020	<0.001	<0.001			
3/17/2020				<0.001	
3/19/2020	<0.001	<0.001	<0.001		
7/6/2020				7.3E-05 (J)	
8/27/2020					<0.001
8/28/2020				<0.001	
9/23/2020		<0.001	0.00016 (J)		
9/24/2020	<0.001				
11/12/2020				<0.001	<0.001
2/10/2021		<0.001	<0.001		
2/11/2021	<0.001				
8/20/2021					<0.001
8/27/2021				<0.001	
2/9/2022		<0.001	<0.001	<0.001	<0.001
2/11/2022	<0.001				
8/31/2022	<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023	<0.001	<0.001	<0.001		
2/10/2023				<0.001	<0.001
8/15/2023		<0.001		<0.001	<0.001
8/16/2023	<0.001		<0.001		
2/20/2024	<0.001	<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
2/21/2024				<0.001	<0.001
8/20/2024	<0.001	<0.001	<0.001		
8/21/2024				<0.001	
8/22/2024					<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					120	58
6/7/2016				28		
7/27/2016				74	94	35
8/30/2016	319					
8/31/2016		332	402			
9/16/2016				67		35
9/19/2016					92	
11/3/2016				41	104	48
11/14/2016	280		445			
11/15/2016		356				
1/11/2017				104	133	95
2/24/2017	162					
2/27/2017			346			
2/28/2017		483				
3/1/2017					119	79
3/2/2017				77		
4/26/2017					162	36
5/2/2017				142		
5/8/2017	194	296				
5/9/2017			388			
6/28/2017					98	45
6/29/2017				53		
7/11/2017	193					
7/13/2017		345	433			
10/4/2017				61		45
10/5/2017					104	
10/10/2017	175	311	396			
4/2/2018	192					
4/3/2018			418			
4/4/2018		313				
6/7/2018					68	
6/11/2018				70		74
9/19/2018	186	326	413			
9/25/2018				86	109	63
3/27/2019	170	302	383			
4/2/2019				72		
4/3/2019					89	63
9/25/2019				81		
9/26/2019					126	72
10/8/2019	172	324				
10/9/2019			432			
3/17/2020	165	283	391			
3/24/2020				71	91	59
9/22/2020	141	294				
9/23/2020			404	99	103	81
3/1/2021	145	276	379			
3/3/2021				57	95	37
8/19/2021	134	333	391			
8/26/2021						31
8/27/2021				93	112	
2/8/2022	151					
2/9/2022		311	400	81	103	60

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				81	100	52
8/31/2022	116	343	445			
2/7/2023				78	96	55
2/8/2023	141	337				
2/9/2023			394			
8/15/2023	186	319	404	74	96	81
2/20/2024	159			77	129	
2/21/2024		309	418			
2/23/2024						52
8/20/2024	155			86	128	
8/21/2024		320	442			79

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					96	160
6/7/2016	38	60				
7/26/2016					92	177
7/27/2016	74					
7/28/2016		81				
9/14/2016					102	187
9/19/2016	45	68				
11/2/2016	53				115	181
11/3/2016		61				
1/12/2017						202
1/13/2017	46	76			67	
3/6/2017	164	167			159	
3/7/2017						257
4/26/2017	34	50				
5/1/2017					107	165
6/27/2017						189
6/29/2017	68	94			79	
10/3/2017		149				170
10/4/2017	54					
10/5/2017					95	
10/11/2017			68			
10/12/2017				74		
11/20/2017			139	179		
1/10/2018				140		
1/11/2018			153			
2/19/2018				119		
2/20/2018			87			
4/3/2018			85	106		
6/5/2018		109				
6/6/2018	79					151
6/7/2018					90	
6/28/2018			88	112		
8/7/2018			89	103		
9/24/2018			82	107		
9/25/2018	73	122				
9/26/2018					116	144
3/26/2019				90		
3/27/2019			75			
4/2/2019		134				
4/3/2019	57				111	142
9/24/2019		157				129
9/25/2019	75				117	
10/9/2019			119	98		
3/24/2020	76	117		84		139
3/25/2020			158		146	
9/22/2020					83	104
9/24/2020	69	113	170	77		
3/2/2021						52
3/3/2021	53				80	
3/4/2021		110	168	57		
8/26/2021			249		93	123
8/27/2021	67					

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		137				
9/3/2021				88		
2/8/2022			248	93		
2/9/2022	72	131				
2/10/2022						127
2/11/2022					102	
8/30/2022		122				148
8/31/2022	62		242	92	92	
2/7/2023	89	163	224			180
2/8/2023				115		
2/9/2023					124	
8/15/2023	62	126	225	83	99	219
2/20/2024	164	156	233	109	140	639 (o)
8/20/2024	75	143			128	212
8/21/2024			235	94		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				120	54	
6/2/2016	66		46			
7/25/2016					48	
7/26/2016	78		54	94		
8/31/2016		209				
9/13/2016				105	67	
9/14/2016	73					152
9/15/2016			54			
11/1/2016				44		
11/2/2016			71			
11/4/2016	75				60	148
11/28/2016		102				
12/15/2016						191
1/10/2017			45			
1/11/2017				107		
1/12/2017	86					
1/16/2017					65	180
2/22/2017		164				
3/2/2017				98	61	
3/3/2017						156
3/7/2017	108					
3/8/2017			178			
4/26/2017			52			
4/27/2017				116	31	
4/28/2017						130
5/2/2017	103					
5/8/2017		145				
5/26/2017						223
6/27/2017	73			89	42	
6/28/2017						166
6/30/2017			45			
7/17/2017		185				
10/3/2017	89			119	58	153
10/5/2017			40			
10/16/2017		218				
2/19/2018		173				
6/5/2018				127		
6/6/2018					96	
6/7/2018	142					146
6/8/2018			114			
8/6/2018		158				
9/26/2018	86					
10/1/2018			50	117	60	155
2/25/2019		92				
3/28/2019				87	87	
3/29/2019			63			150
4/3/2019	83					
6/12/2019		226				
9/24/2019	79			124	54	146
9/25/2019			64			
10/8/2019		276				
3/17/2020		185				

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			57		35	
3/19/2020				116		148
3/24/2020	68					
9/22/2020	75	281				
9/23/2020				108	15	161
9/25/2020			54			
3/2/2021	67	296	67			
3/3/2021				99	39	138
8/19/2021			54	105	44	
8/20/2021		254				
8/26/2021	86					
8/27/2021						150
2/8/2022		283				
2/9/2022				105	57	156
2/10/2022	77		56			
8/30/2022	86	244		116		153
8/31/2022			51		46	
2/7/2023		207		131	121	159
2/8/2023			56			
2/9/2023	59					
8/15/2023	76	230	69	121	65	157
2/20/2024	137	214		130 (D6)	59	159
2/23/2024			64			
8/20/2024	108		81	140	67	184

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/6/2024 6:12 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			150		
6/2/2016	36	130			
7/25/2016	50		135		
7/26/2016		141			
9/1/2016				1240	
9/14/2016			127		
9/15/2016		153			
9/19/2016	35				
11/1/2016	<25	92	75		
11/16/2016				1220	
1/11/2017		159	148		
1/16/2017	47				
2/21/2017	<25				
2/27/2017				1060	
3/1/2017			182		
3/2/2017		117			
4/26/2017	55	181	92		
5/8/2017				1160	
6/28/2017		169	126		
6/30/2017	42				
7/13/2017				996	
10/4/2017	31	141	147		
10/11/2017				835	
4/4/2018				1470	
6/7/2018		95			
6/8/2018			158		
6/11/2018	59				
9/19/2018				702	
10/1/2018		165	138		
10/2/2018	57				
3/27/2019				641	
4/1/2019	54	149	19 (J)		
9/25/2019	51	157	159		
10/9/2019				809	
3/17/2020				733	
3/19/2020	47	146	148		
7/6/2020				793	
8/27/2020					349
8/28/2020				838	
9/22/2020					296
9/23/2020		157	155	832	
9/24/2020	51				
10/7/2020				842	336
11/12/2020				760	317
3/1/2021	23				265
3/2/2021				782	
3/3/2021		137	111		
8/19/2021	50	144			
8/20/2021					289
8/27/2021			155	810	
2/9/2022		154	145	846	278
2/11/2022	66				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/6/2024 6:12 PM

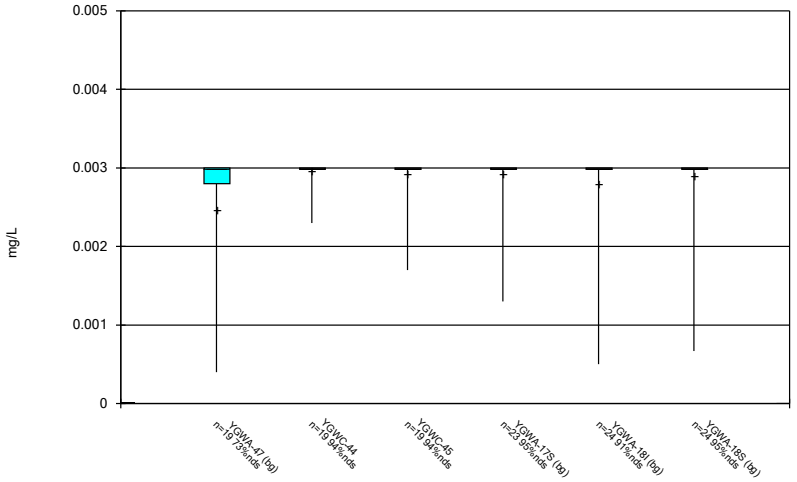
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	33	141	137	948	266
2/8/2023	43	144	145		
2/10/2023				995	228
8/15/2023		231		945	267
8/16/2023	48		148		
2/20/2024	55	294	220		
2/21/2024				1100	274
8/20/2024	69	164	179		
8/21/2024				1060	
8/22/2024					232

FIGURE B.

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

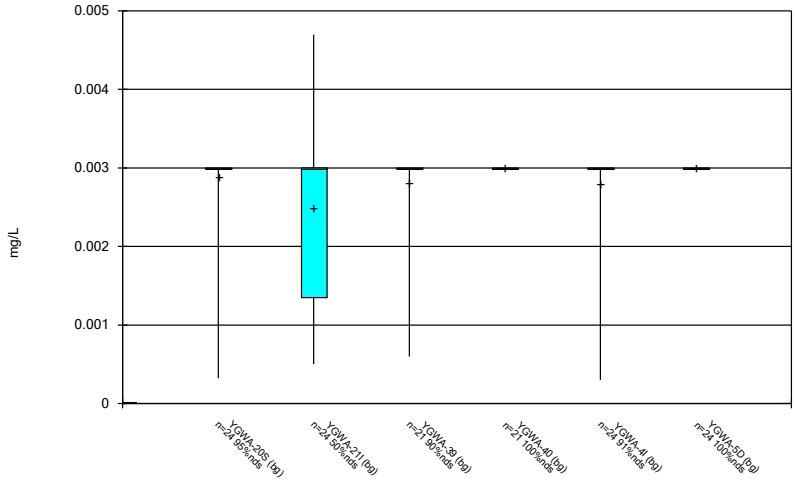
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

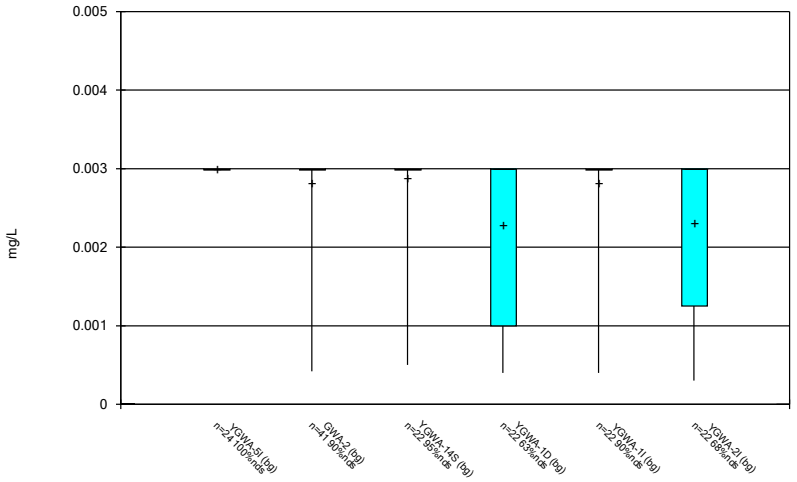
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

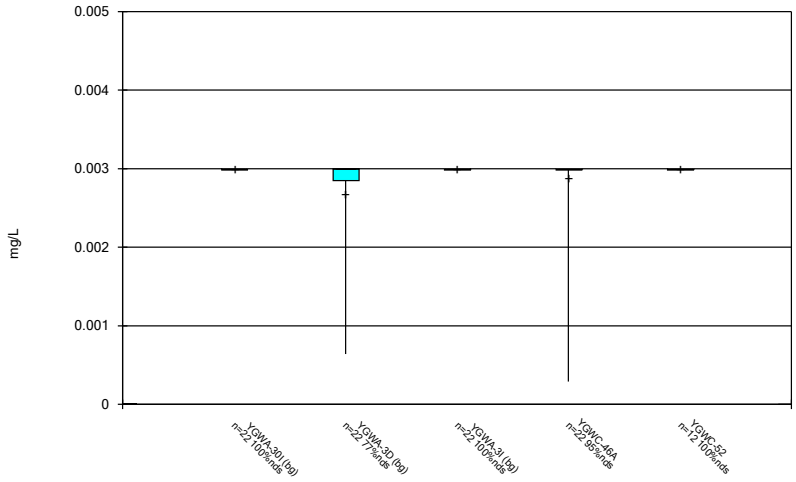
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

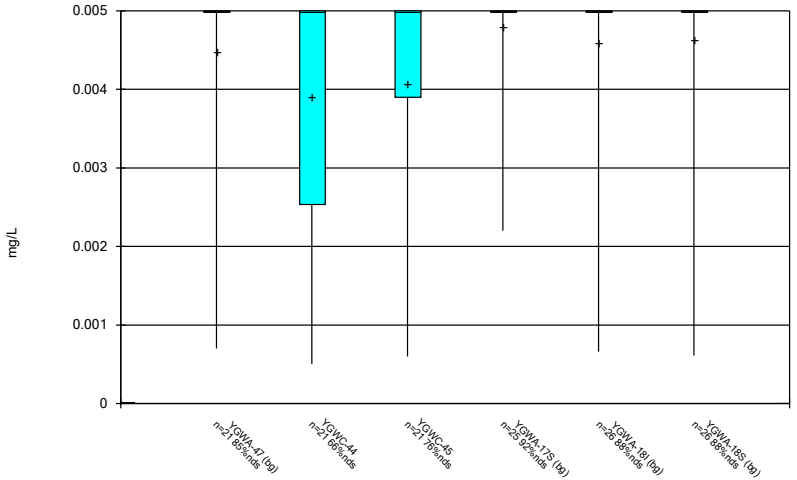
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

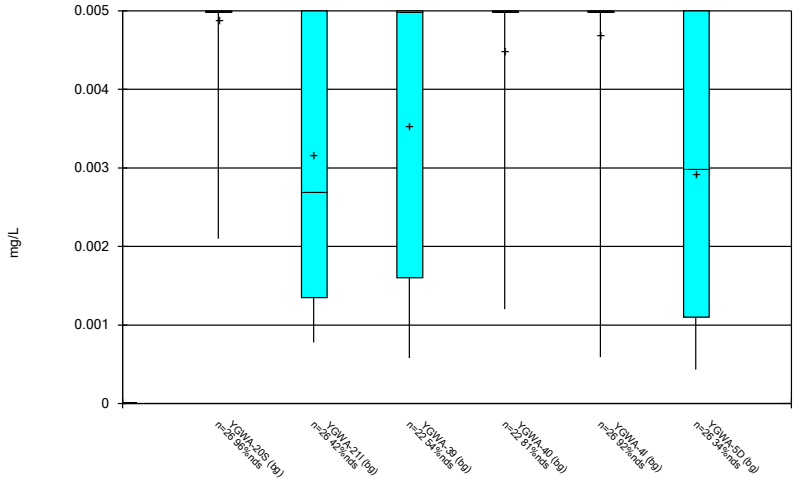


Constituent: Arsenic Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

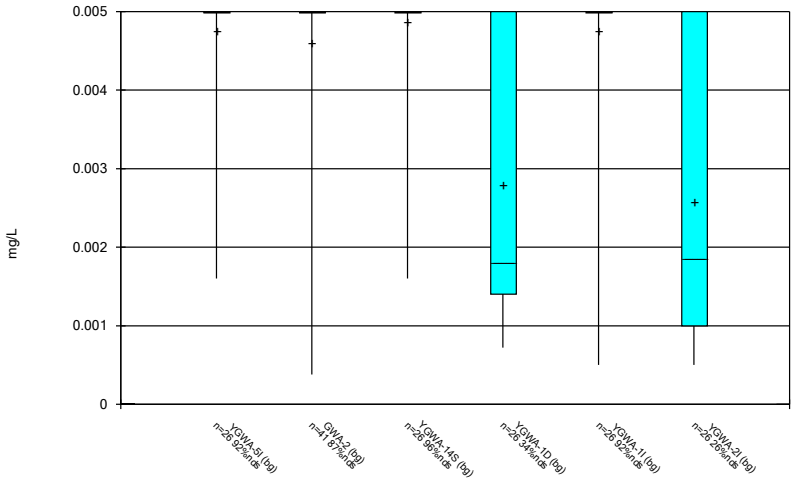


Constituent: Arsenic Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

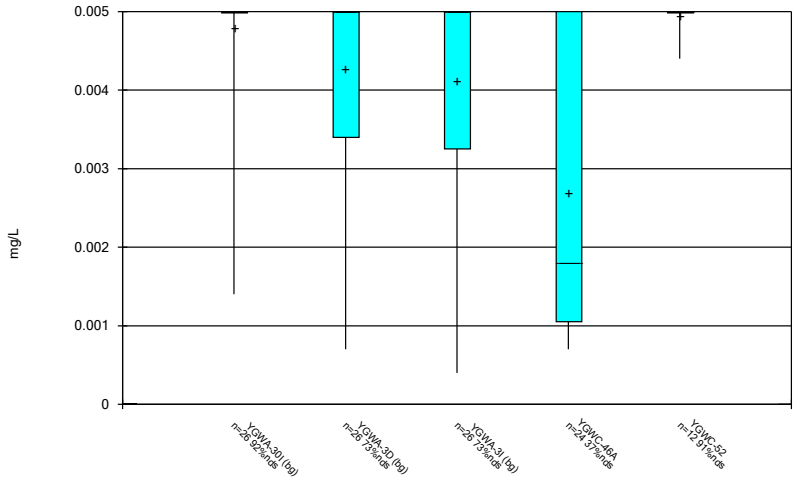


Constituent: Arsenic Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

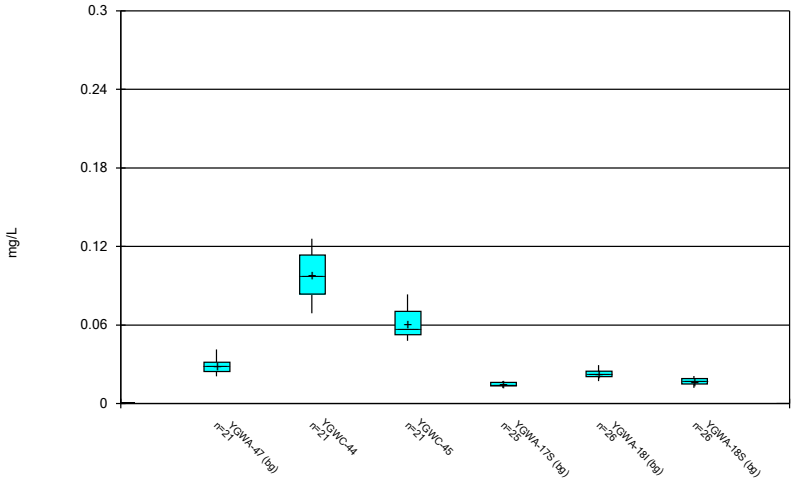


Constituent: Arsenic Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

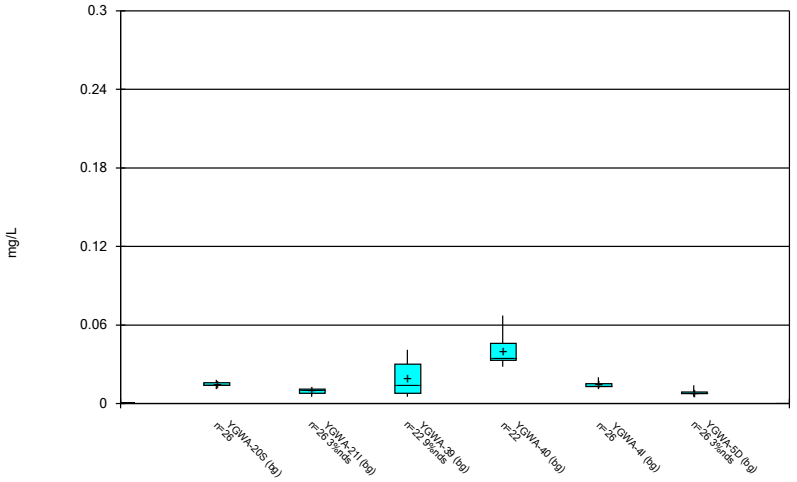


Constituent: Barium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

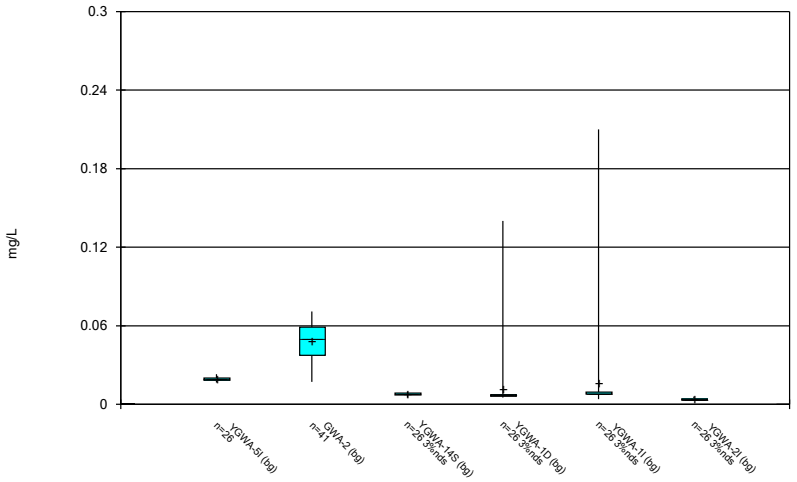


Constituent: Barium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

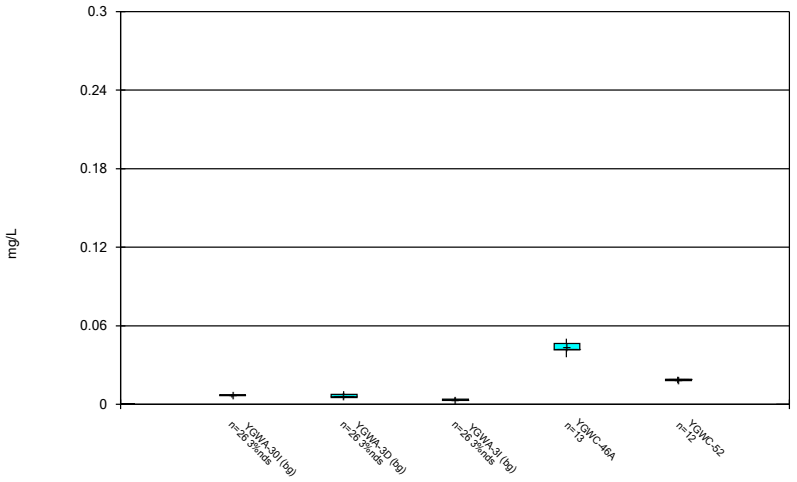


Constituent: Barium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

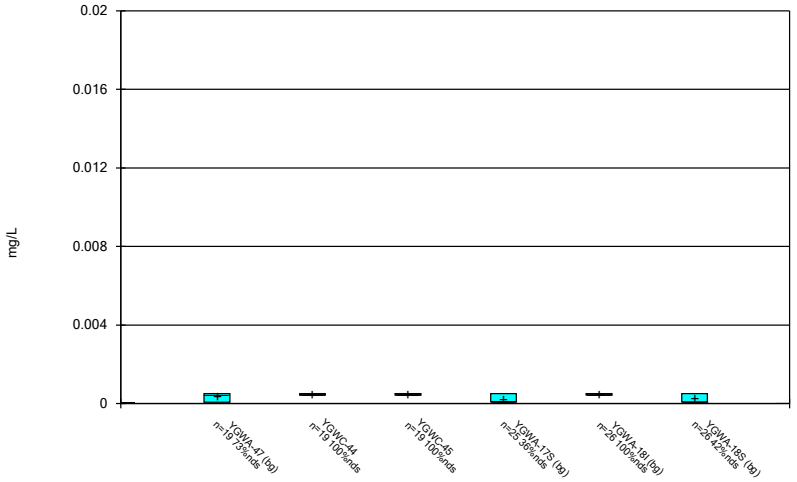


Constituent: Barium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

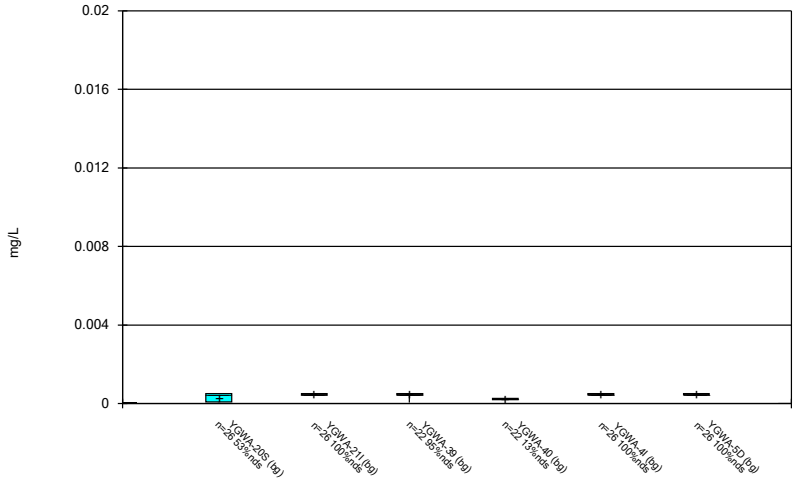


Constituent: Beryllium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

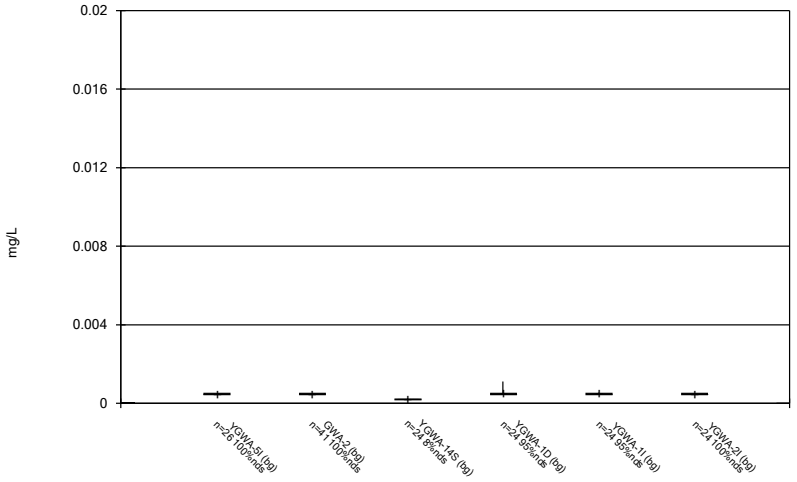


Constituent: Beryllium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

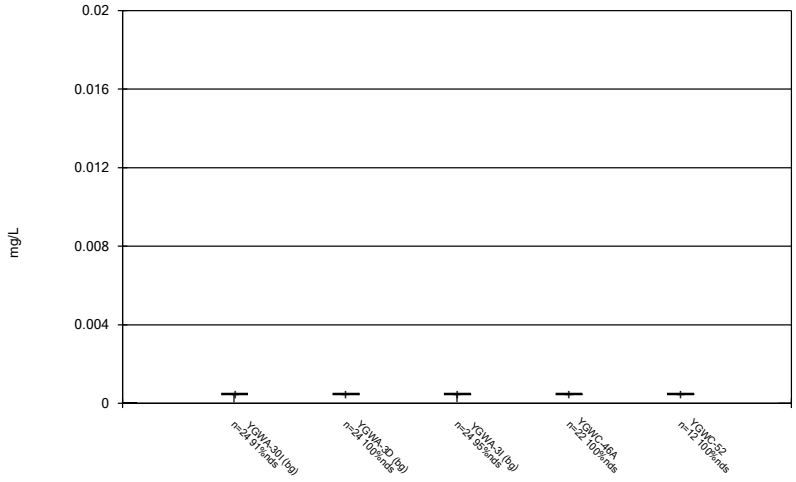


Constituent: Beryllium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

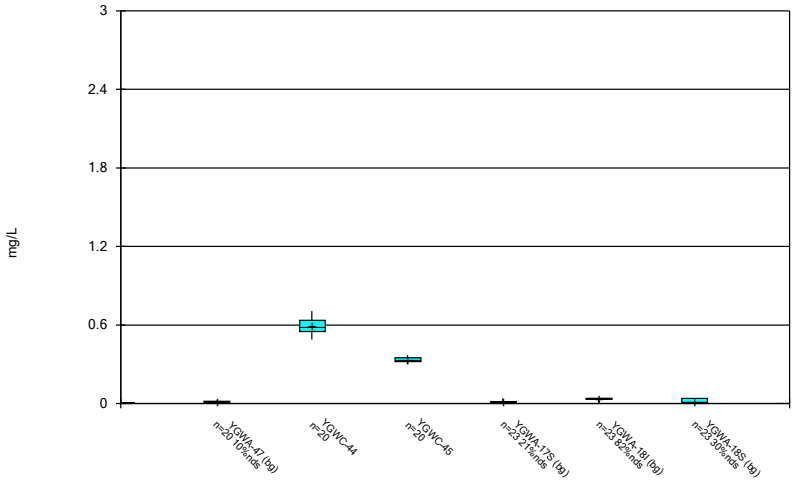


Constituent: Beryllium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

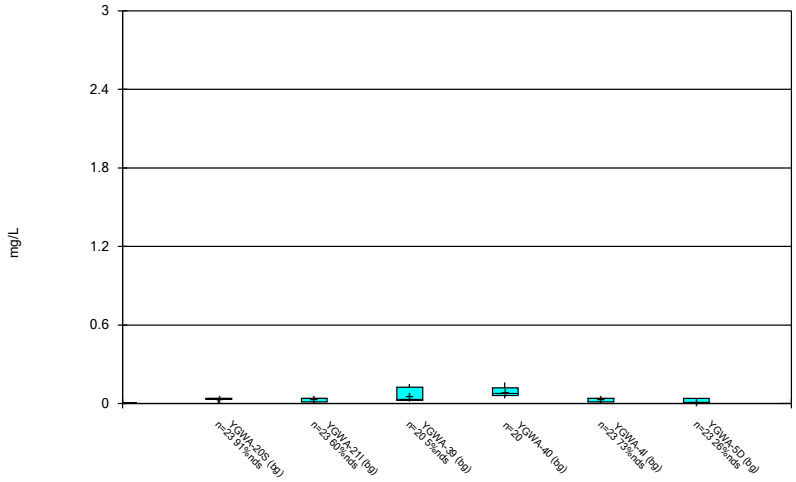


Constituent: Boron, total Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

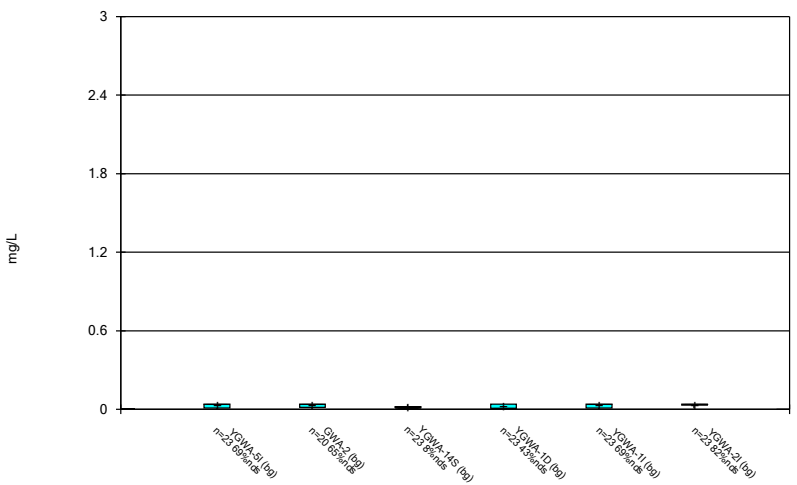


Constituent: Boron, total Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

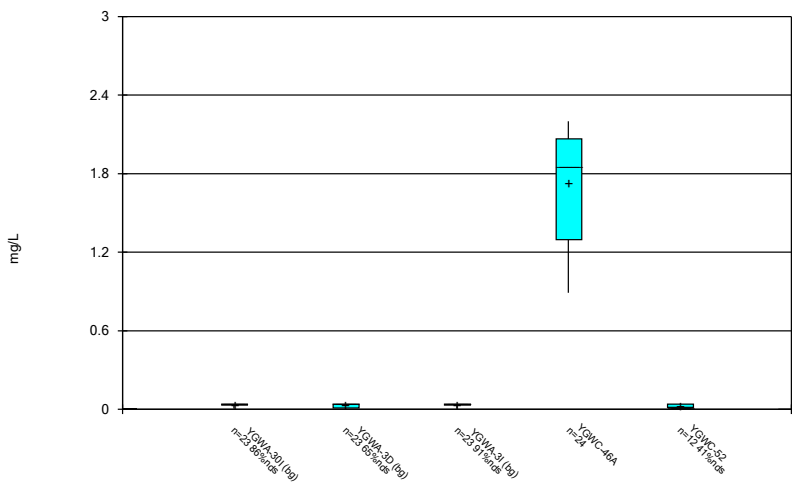


Constituent: Boron, total Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

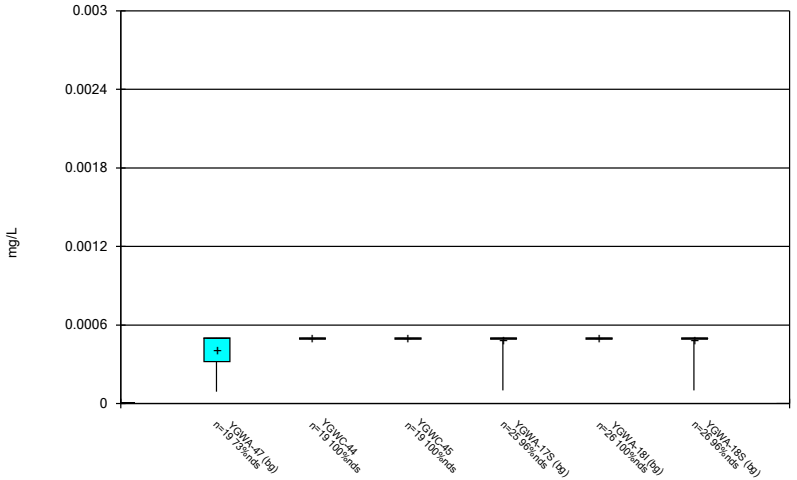


Constituent: Boron, total Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

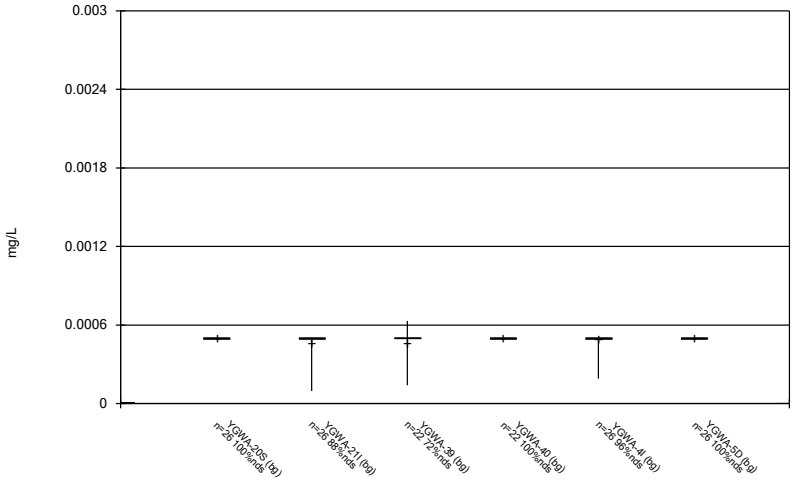


Constituent: Cadmium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

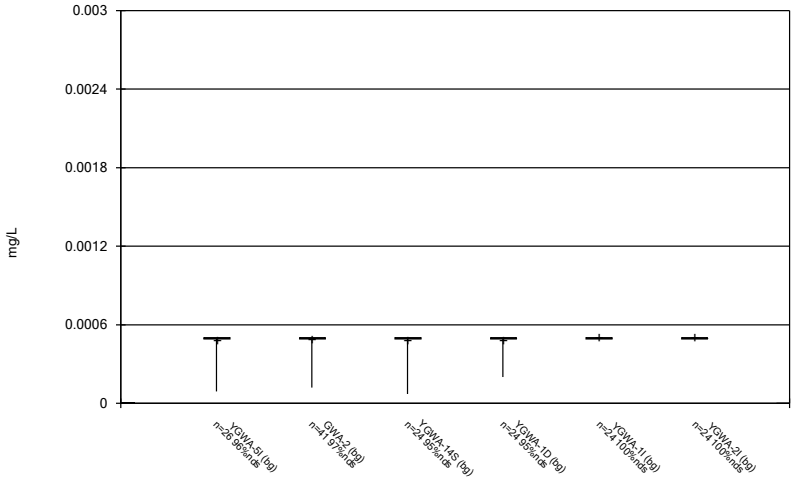


Constituent: Cadmium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

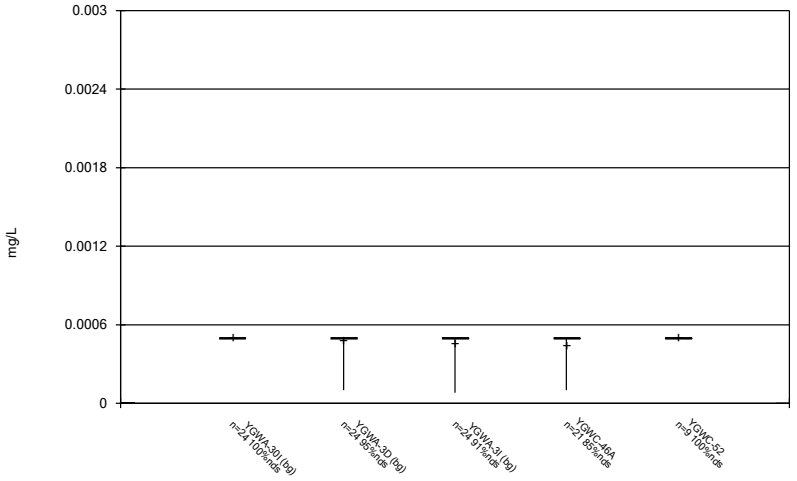


Constituent: Cadmium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

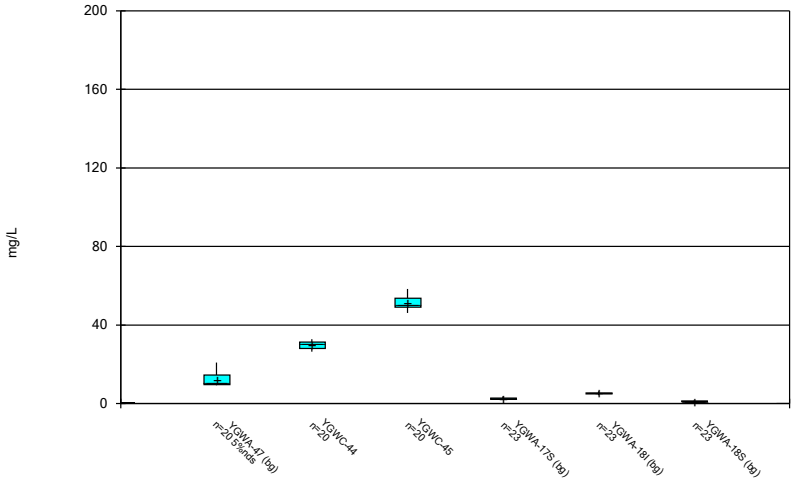


Constituent: Cadmium Analysis Run 11/6/2024 6:13 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

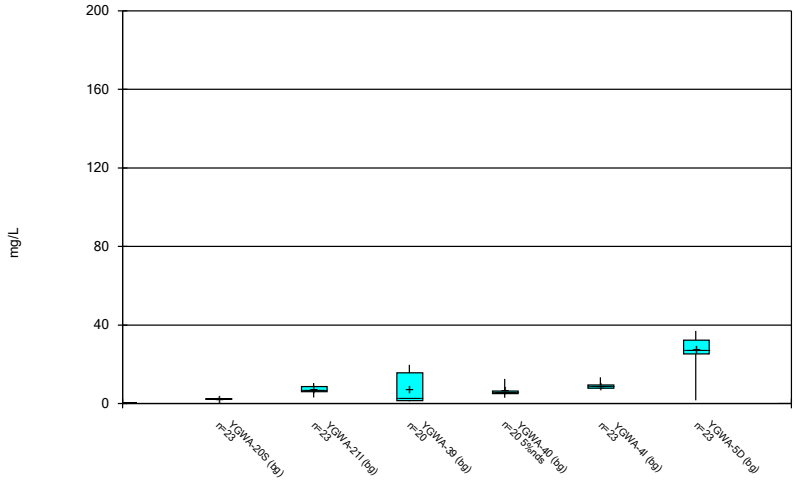
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

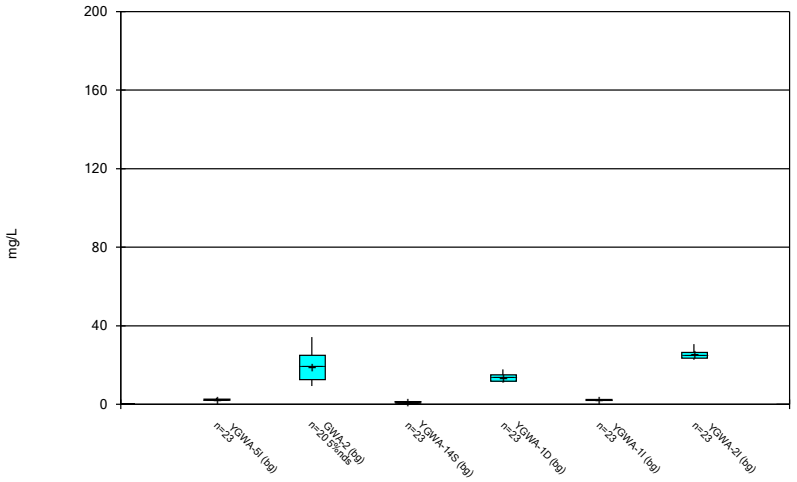
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

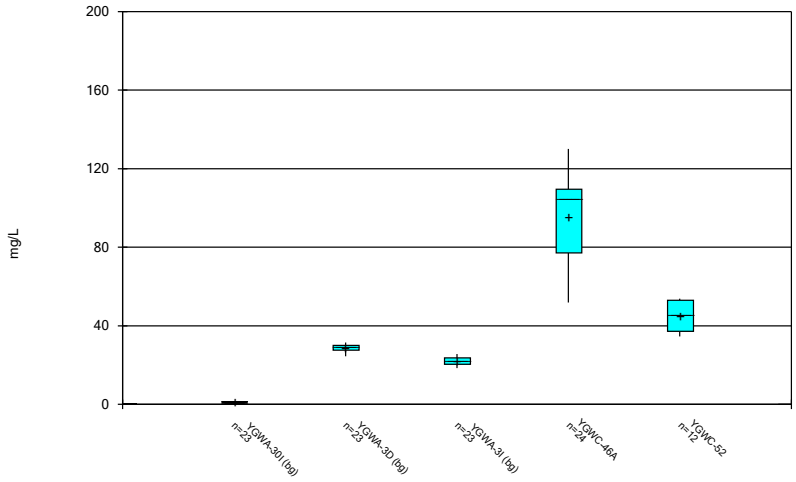
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

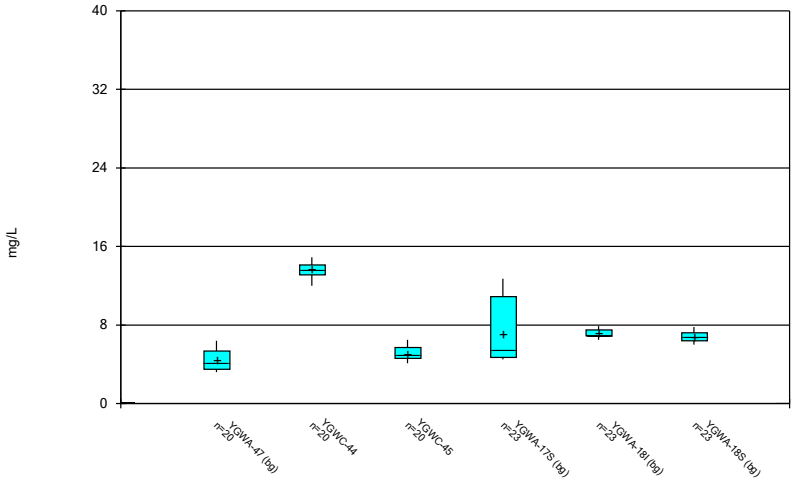
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

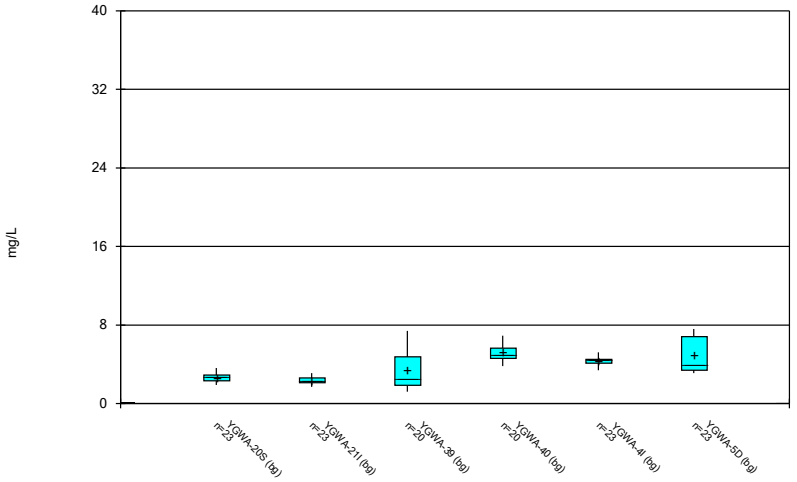
Box & Whiskers Plot



Constituent: Chloride, Total Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

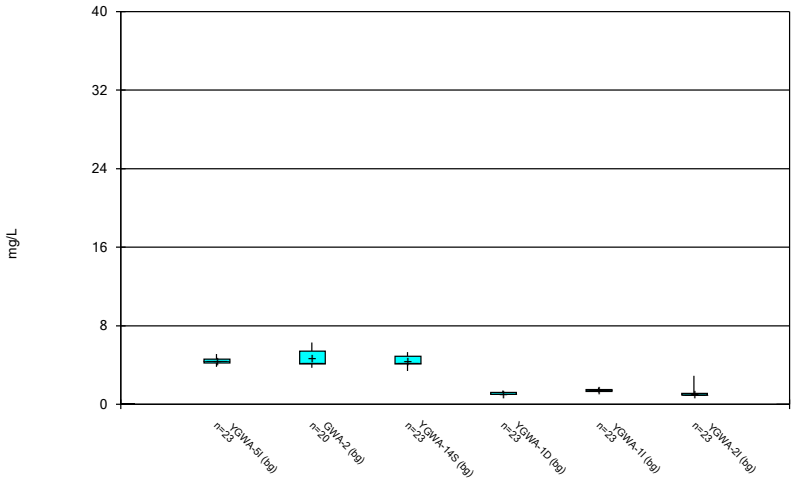
Box & Whiskers Plot



Constituent: Chloride, Total Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

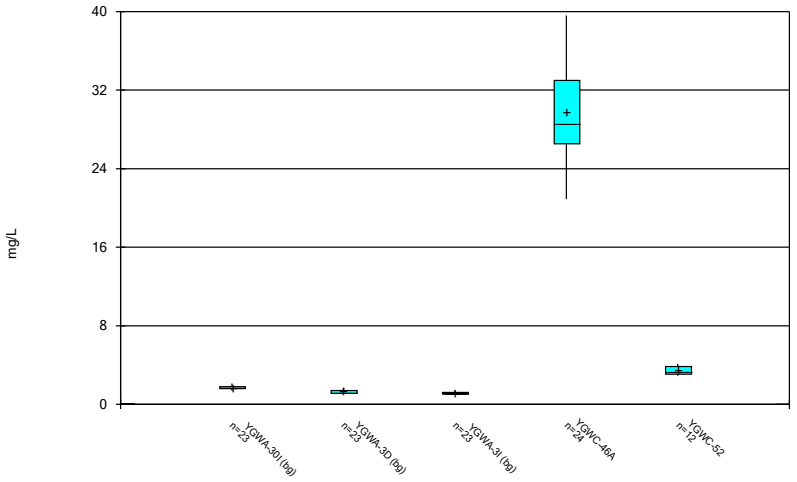
Box & Whiskers Plot



Constituent: Chloride, Total Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

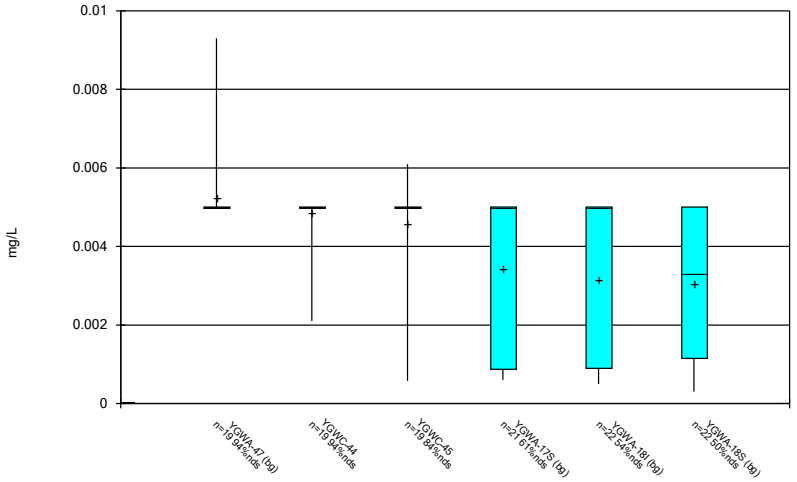
Box & Whiskers Plot



Constituent: Chloride, Total Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

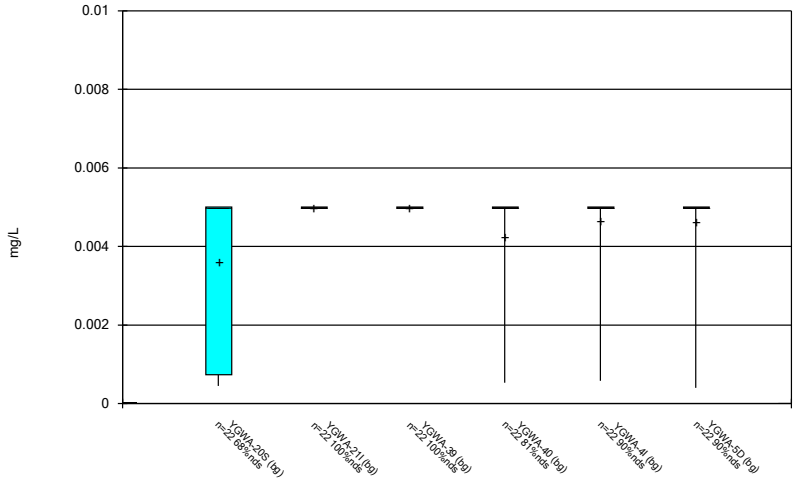
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

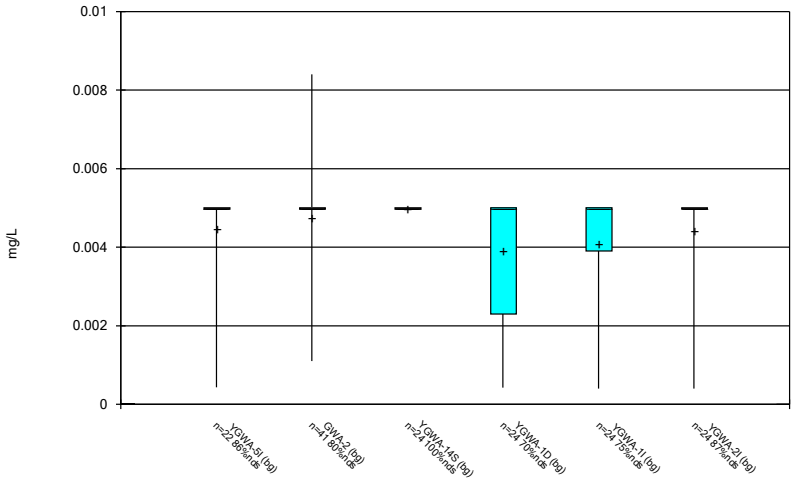
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

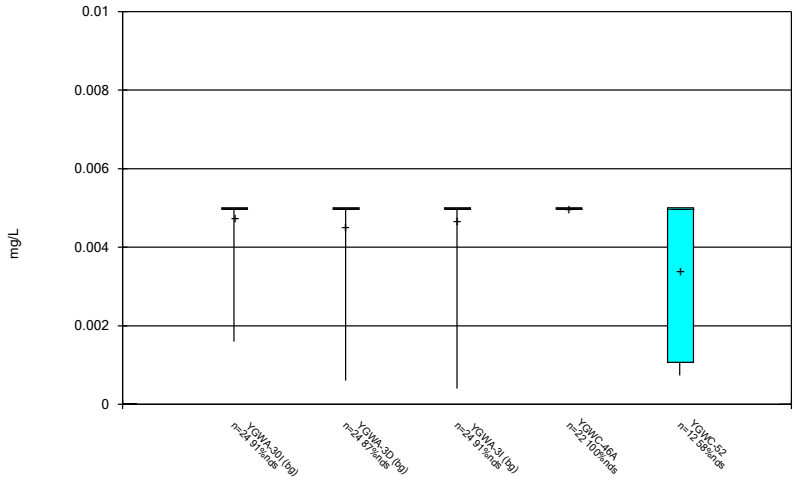
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

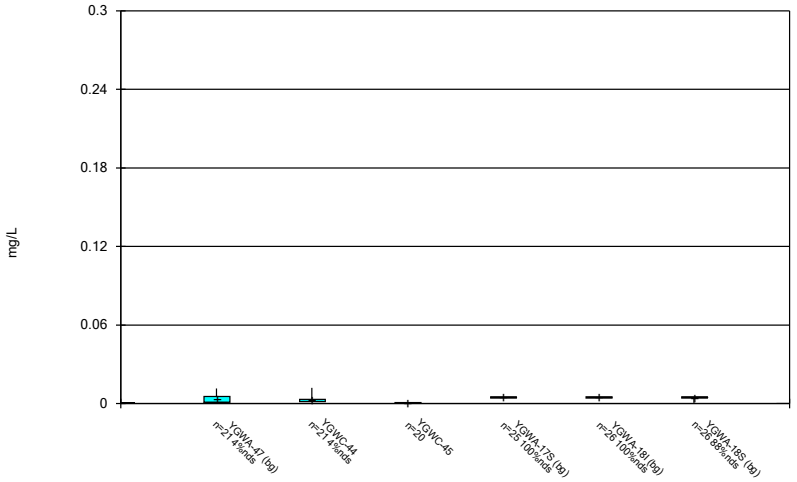
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/6/2024 6:13 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

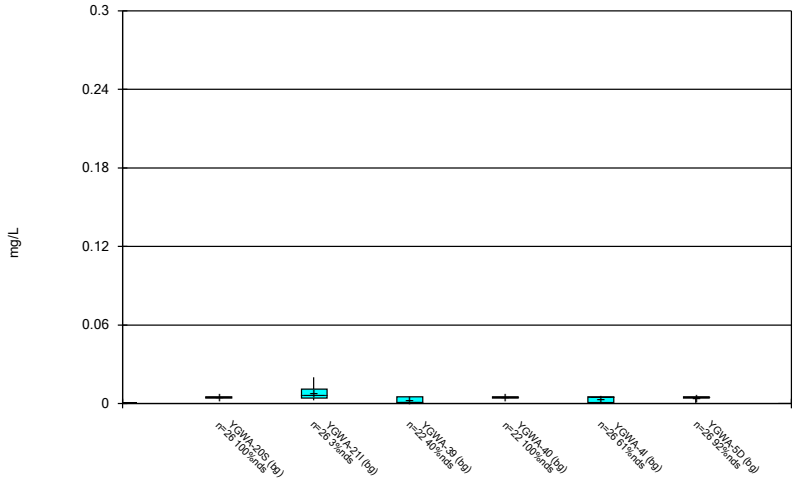


Constituent: Cobalt Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

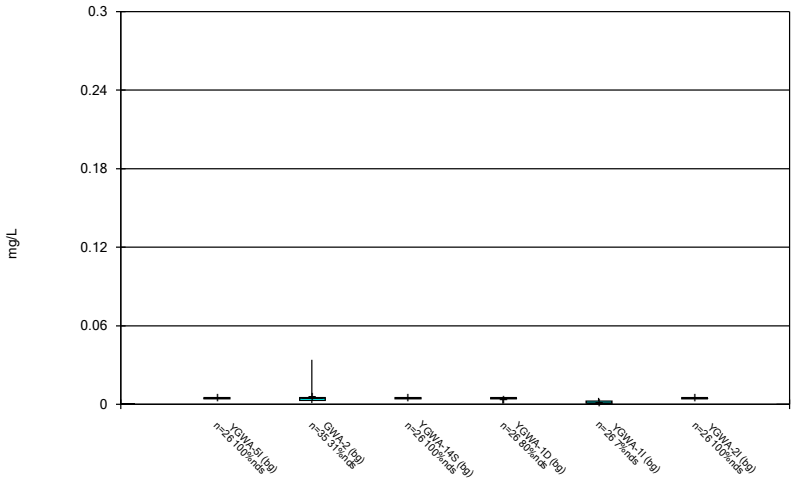


Constituent: Cobalt Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

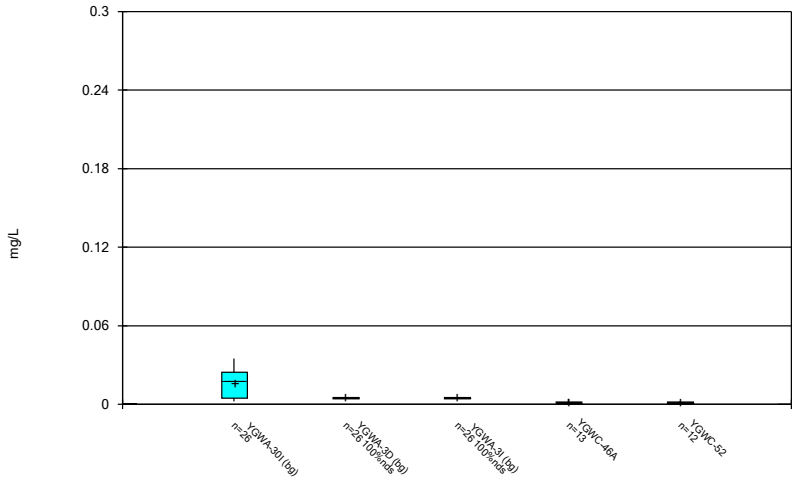


Constituent: Cobalt Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

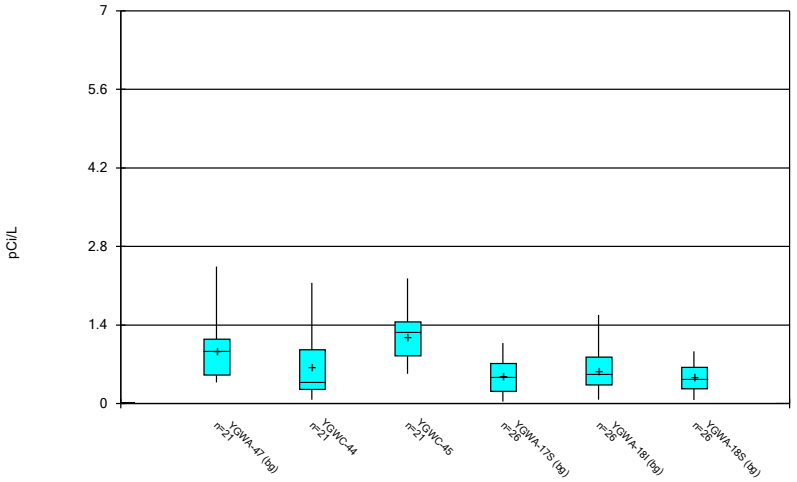


Constituent: Cobalt Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

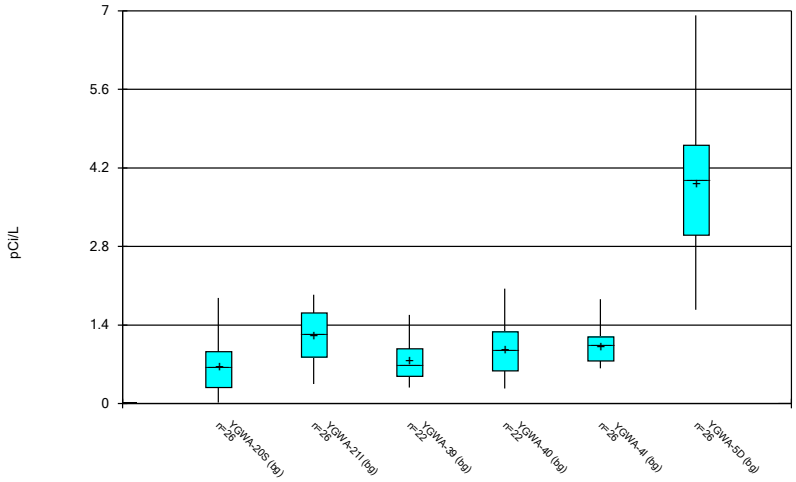


Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

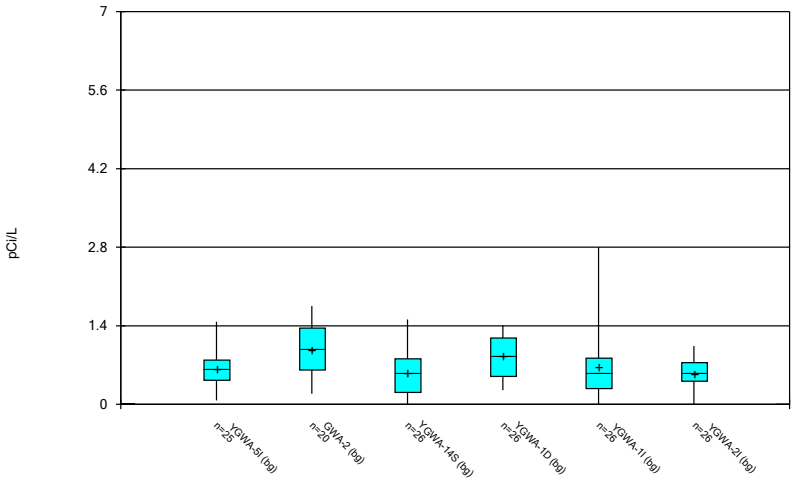


Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

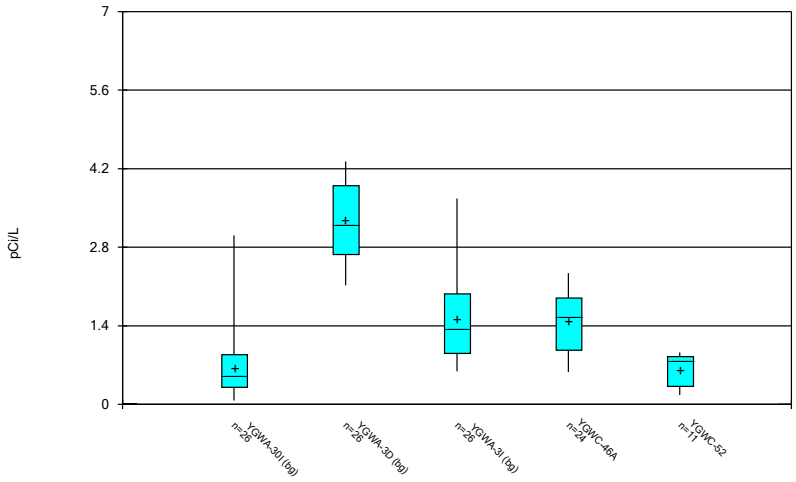


Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

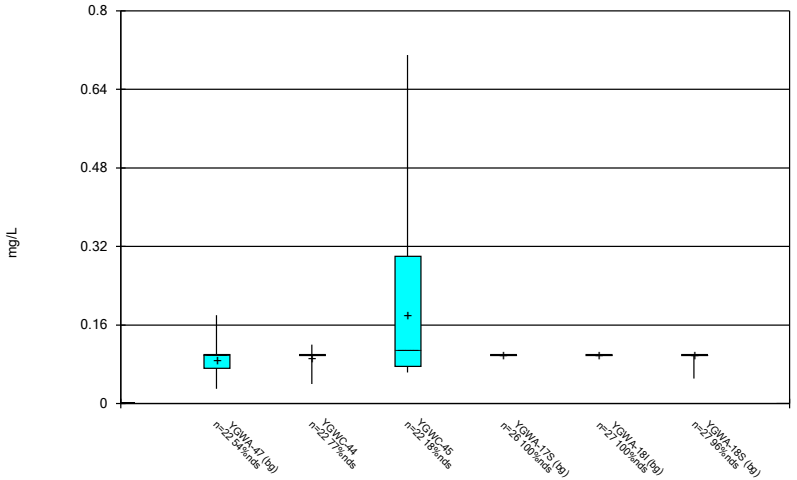


Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

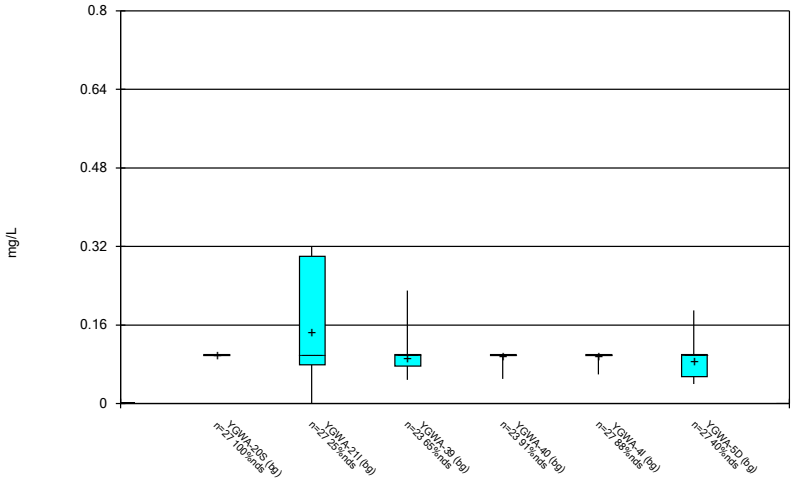
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

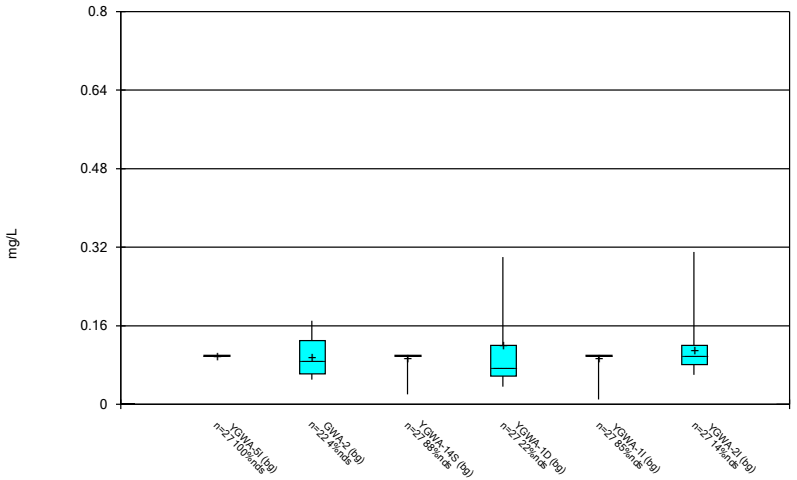
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

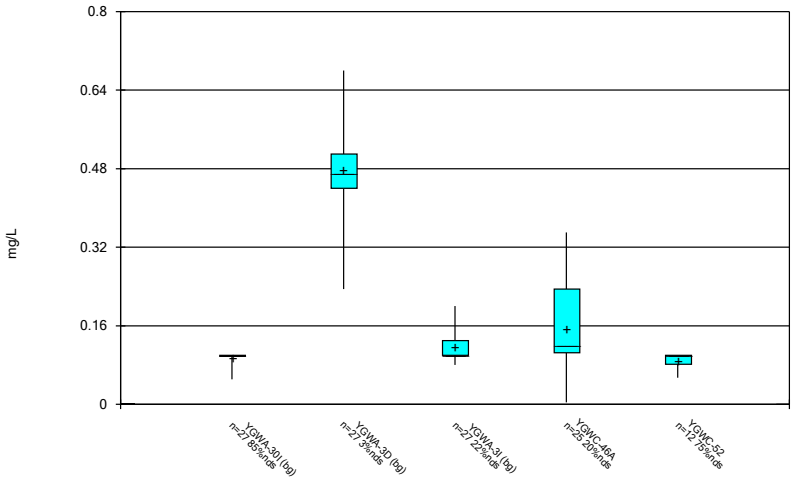
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

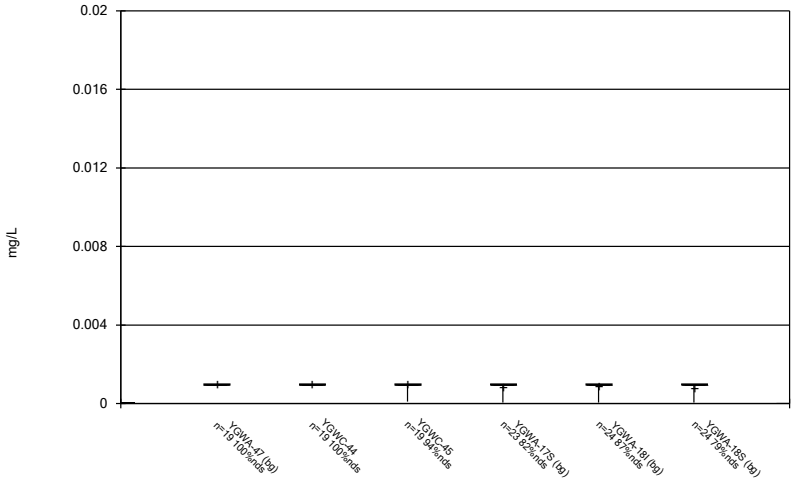
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

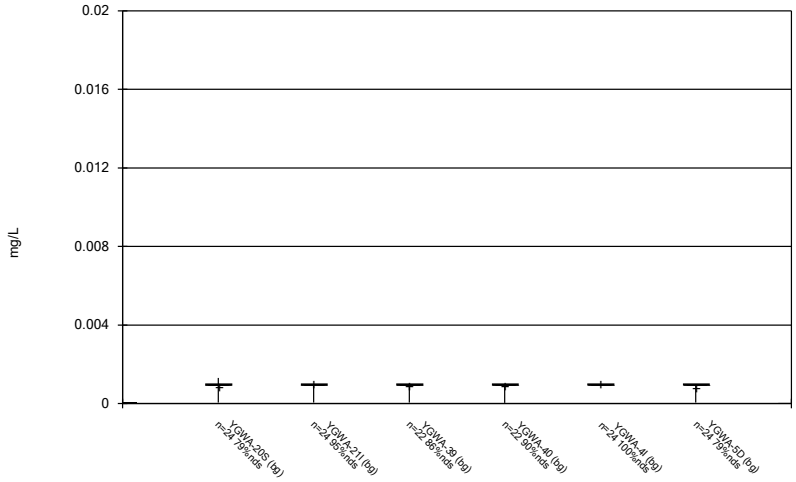


Constituent: Lead Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

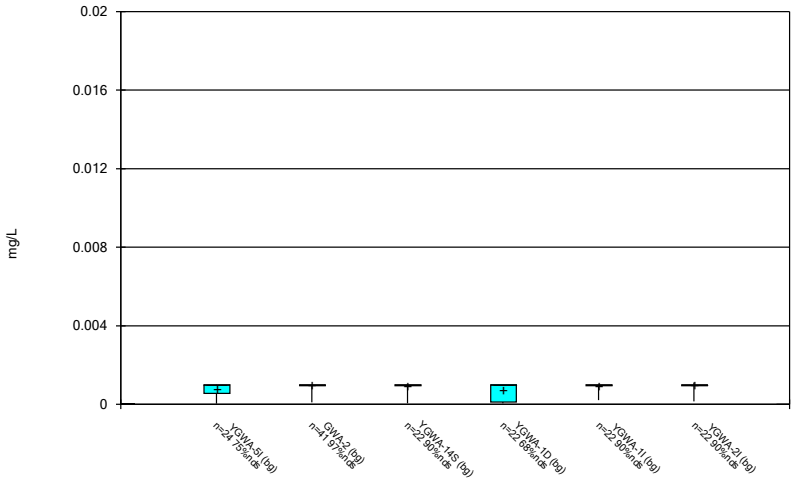


Constituent: Lead Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

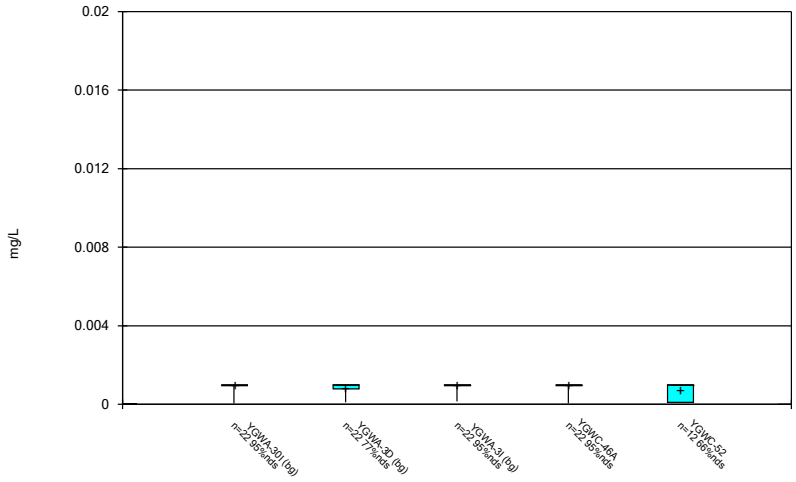


Constituent: Lead Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

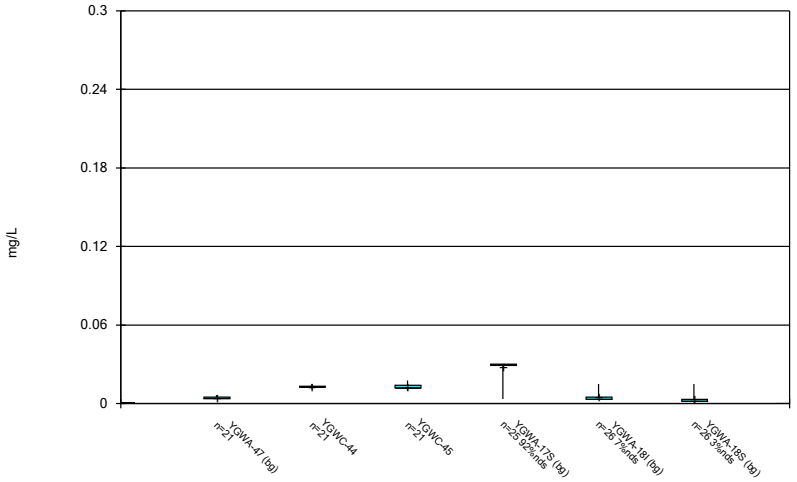


Constituent: Lead Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

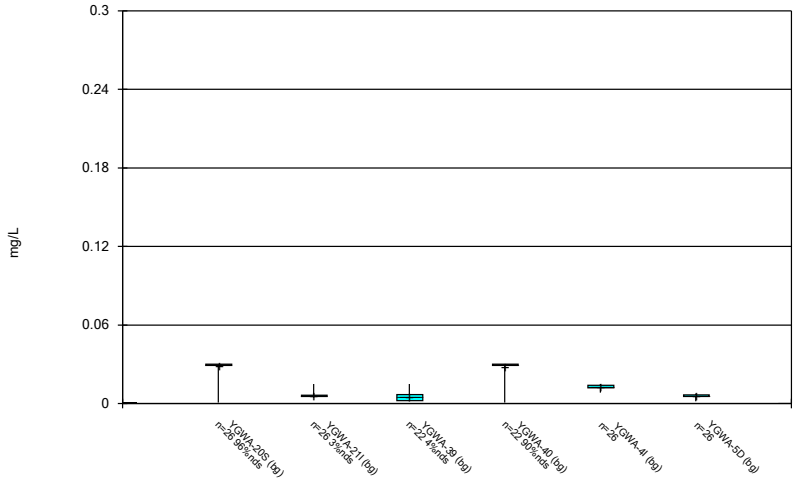


Constituent: Lithium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

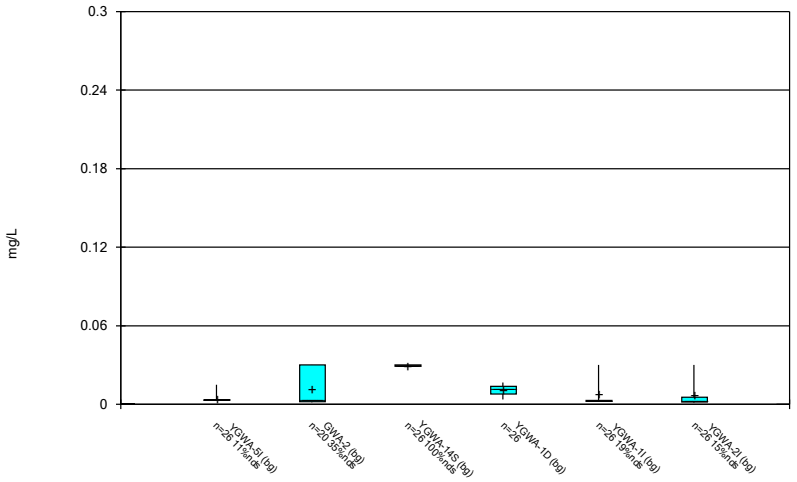


Constituent: Lithium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

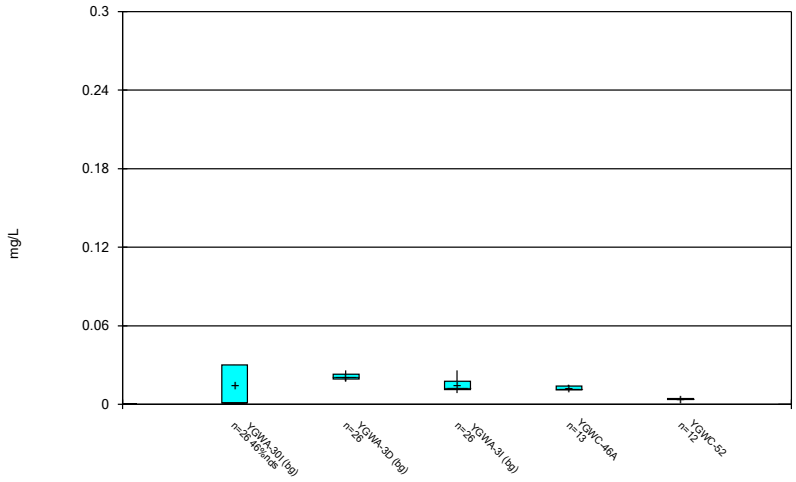


Constituent: Lithium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

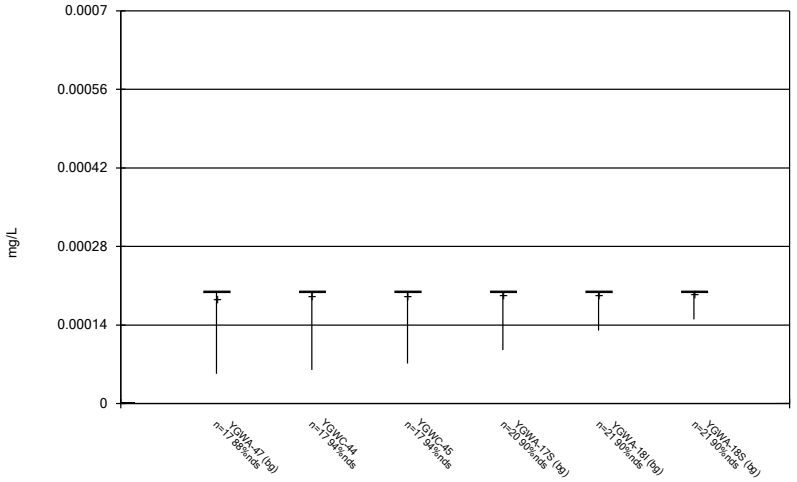


Constituent: Lithium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

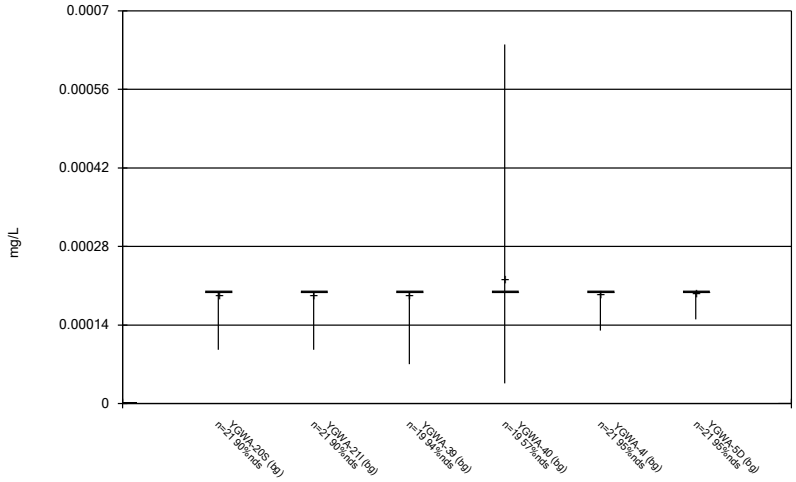


Constituent: Mercury Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

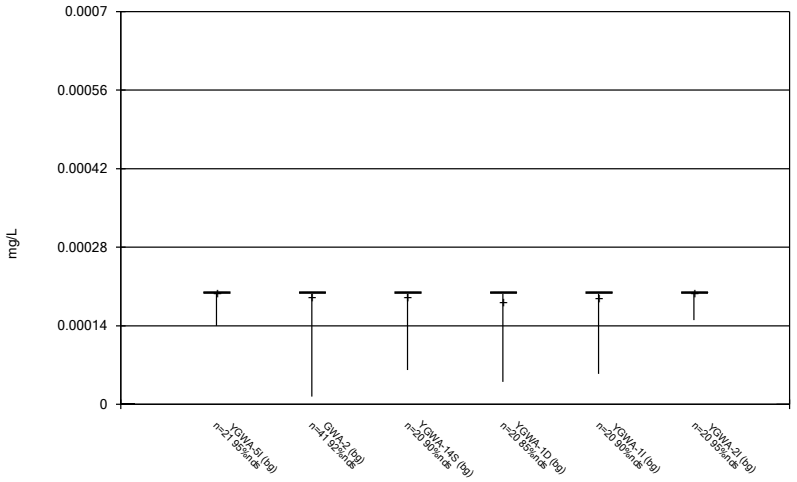


Constituent: Mercury Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

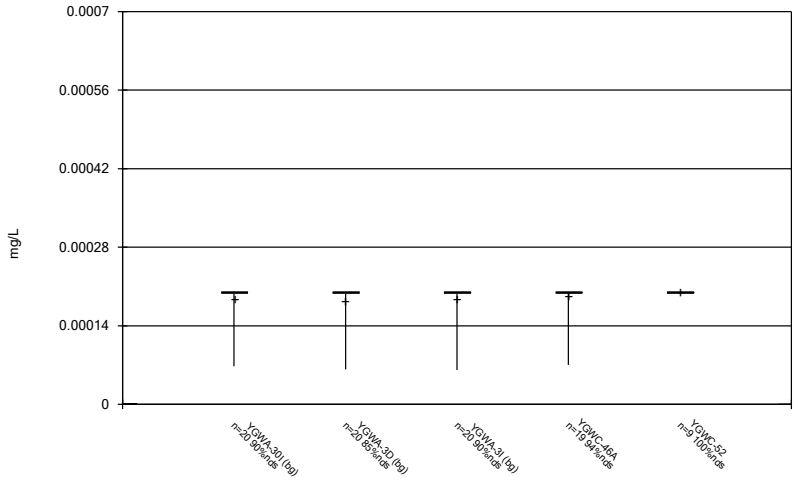


Constituent: Mercury Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

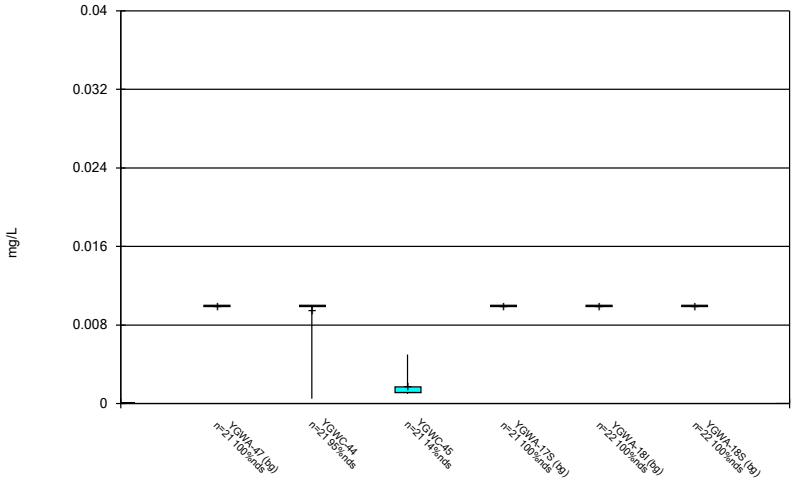


Constituent: Mercury Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

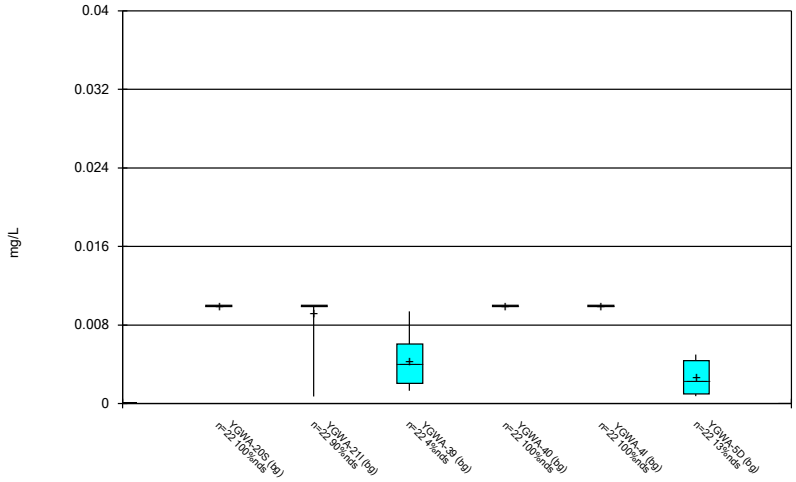


Constituent: Molybdenum Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

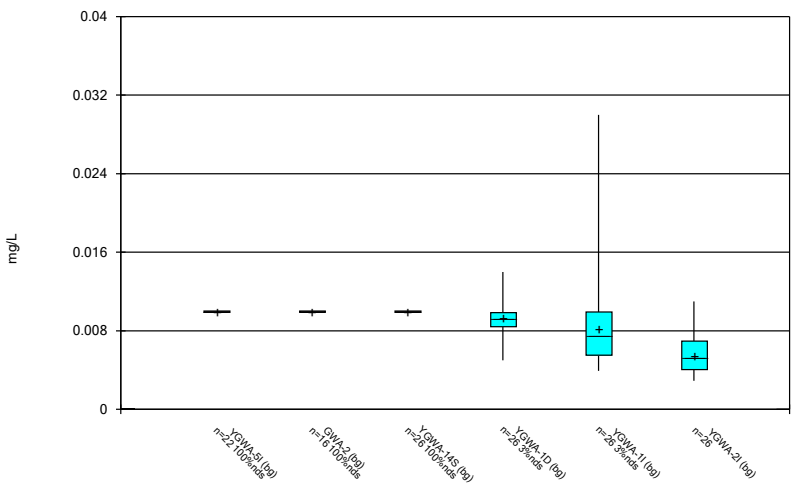


Constituent: Molybdenum Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

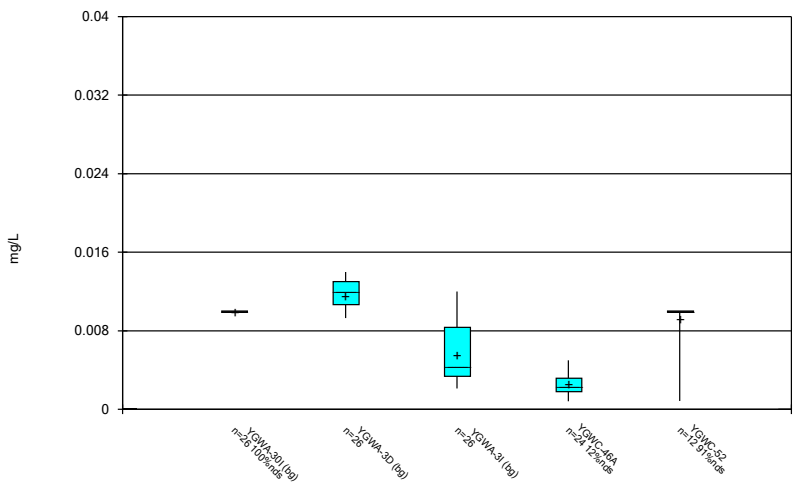


Constituent: Molybdenum Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

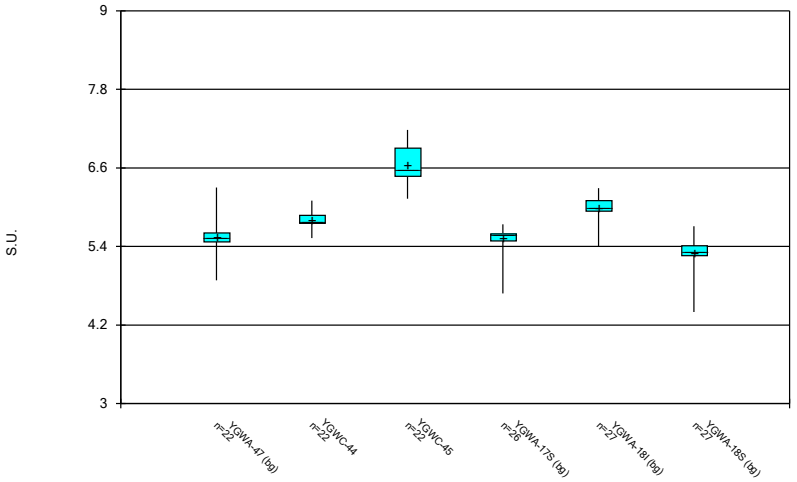


Constituent: Molybdenum Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

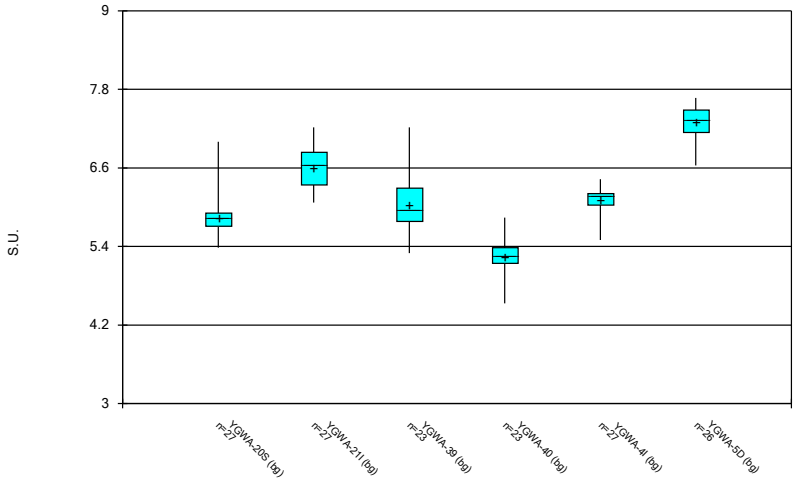


Constituent: pH, Field Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

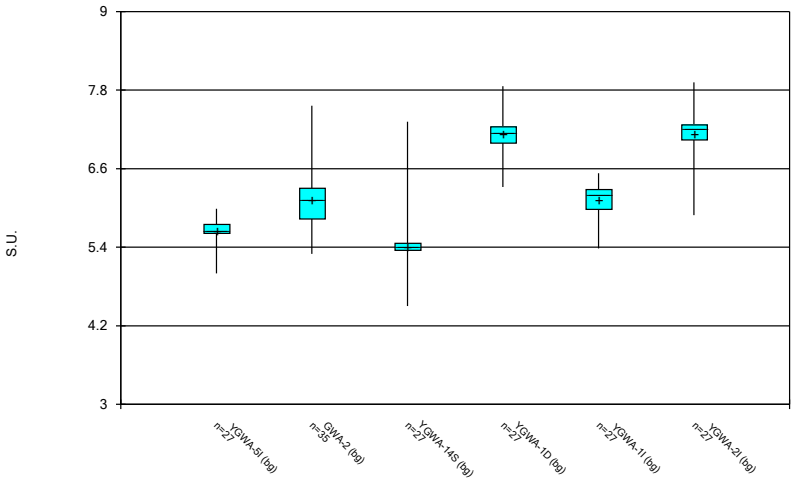


Constituent: pH, Field Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

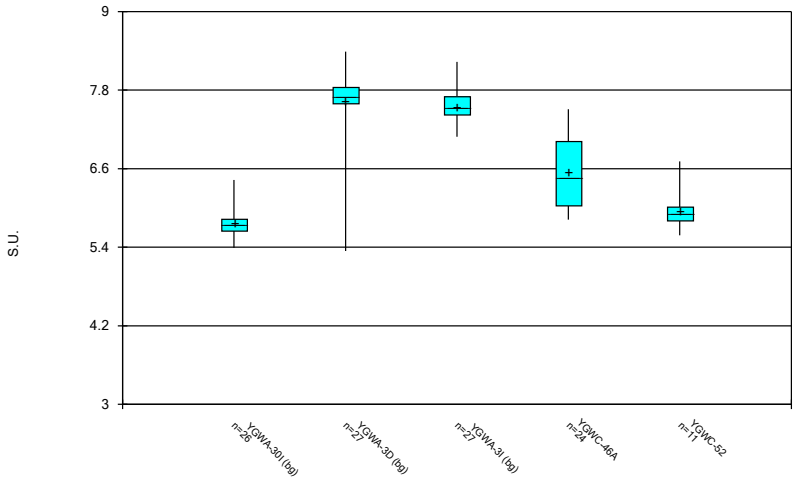


Constituent: pH, Field Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

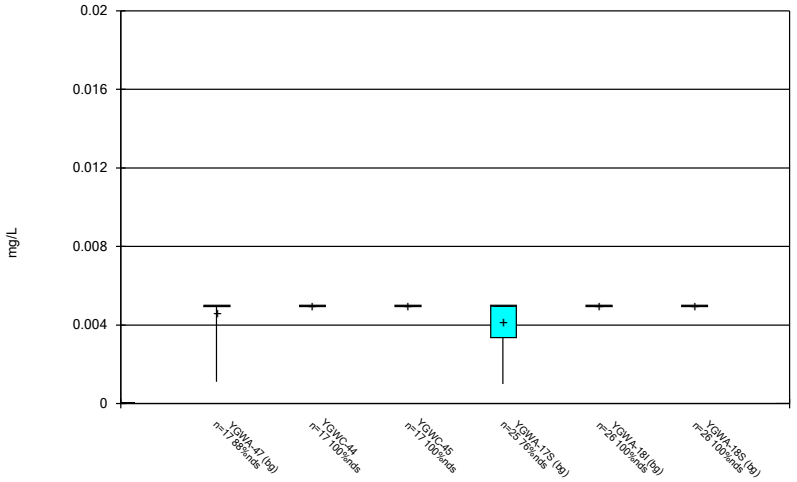


Constituent: pH, Field Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

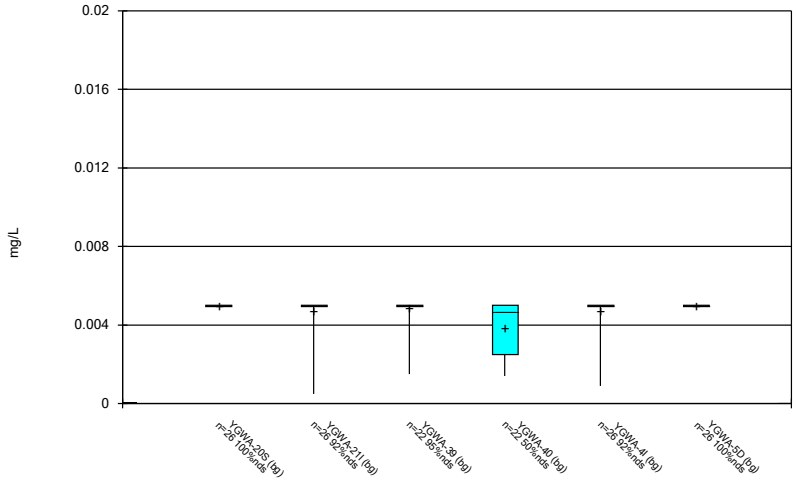


Constituent: Selenium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

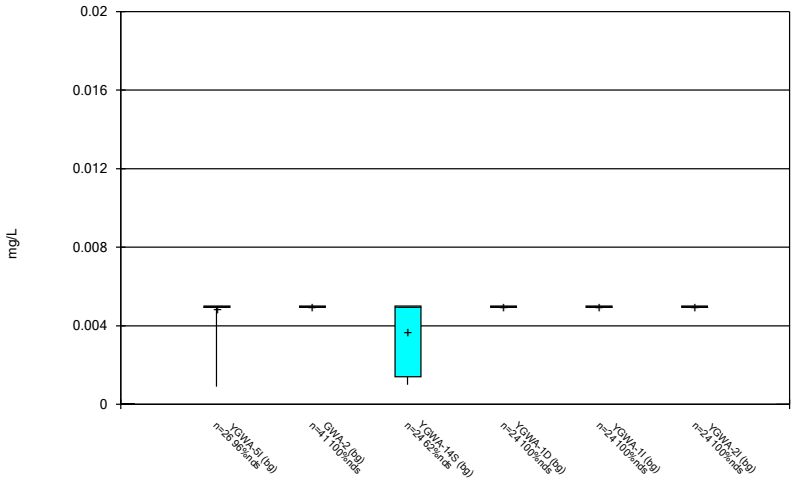


Constituent: Selenium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

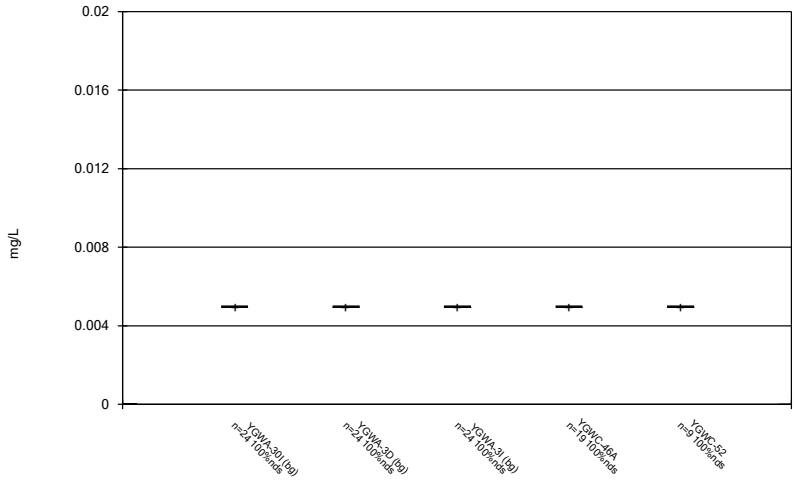


Constituent: Selenium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

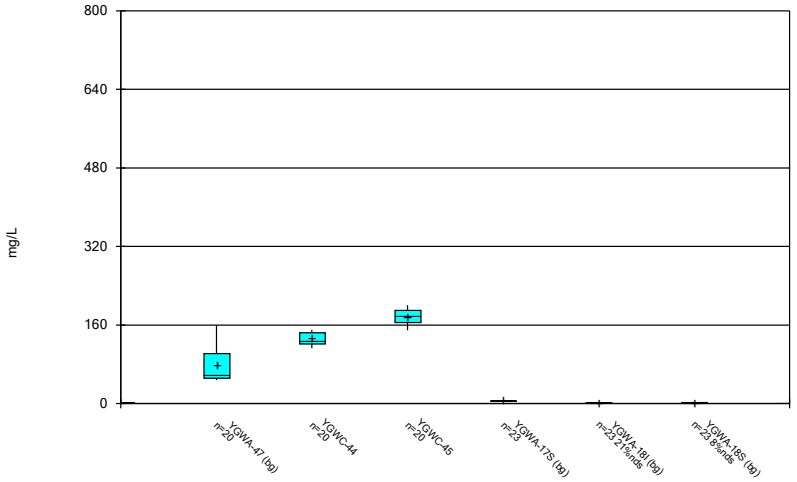


Constituent: Selenium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

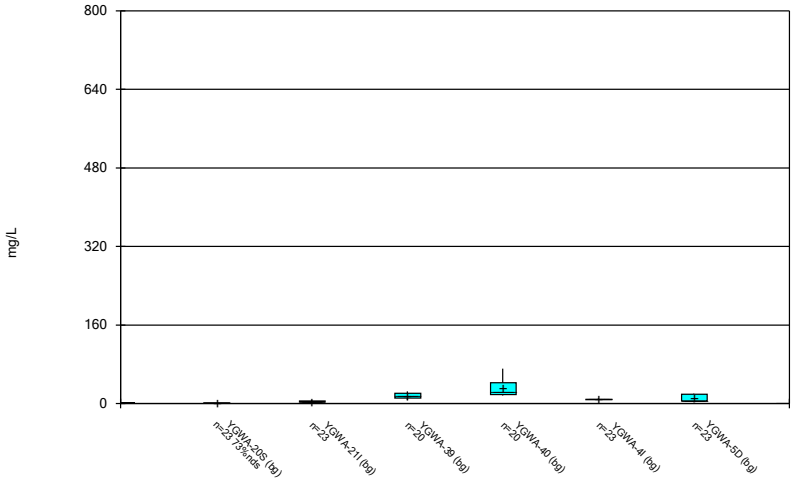
Box & Whiskers Plot



Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

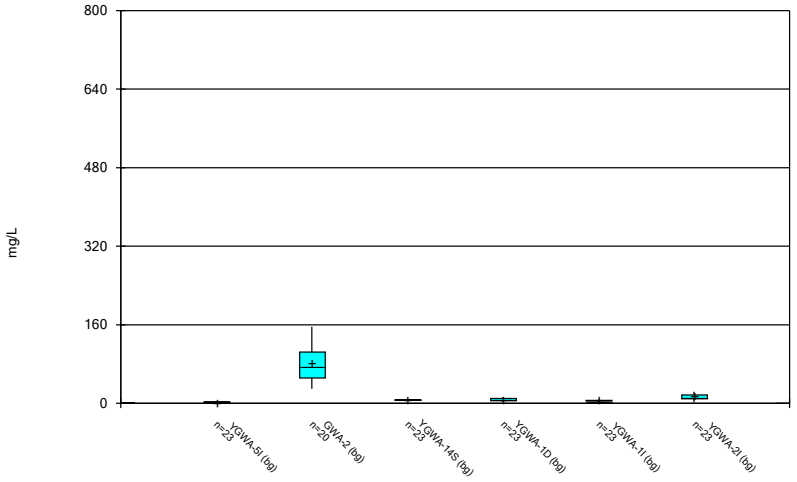
Box & Whiskers Plot



Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

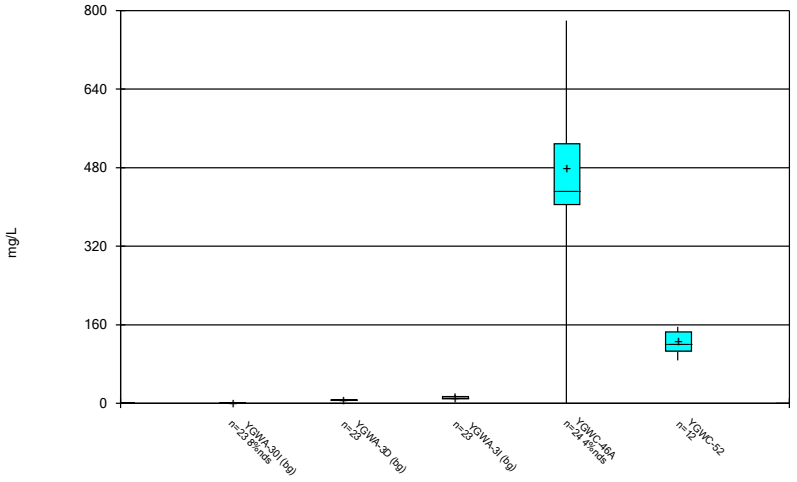
Box & Whiskers Plot



Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

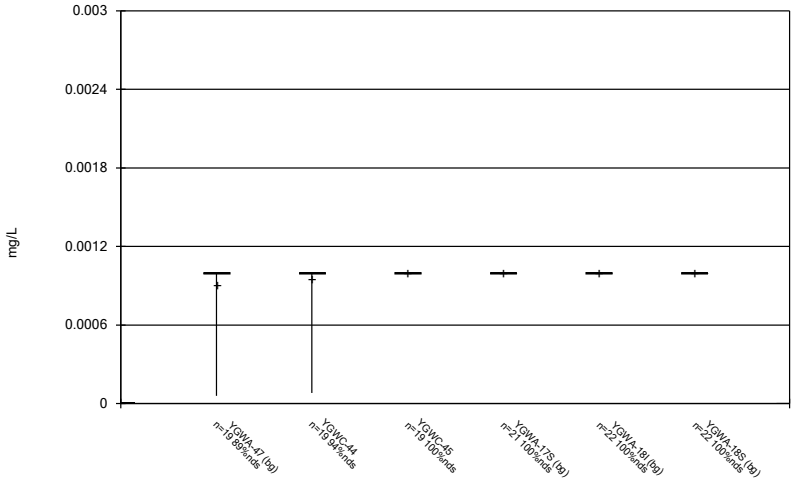
Box & Whiskers Plot



Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

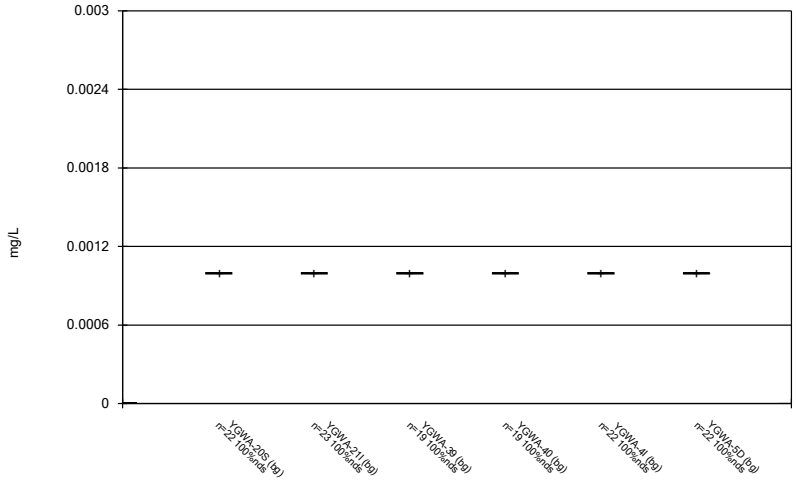


Constituent: Thallium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

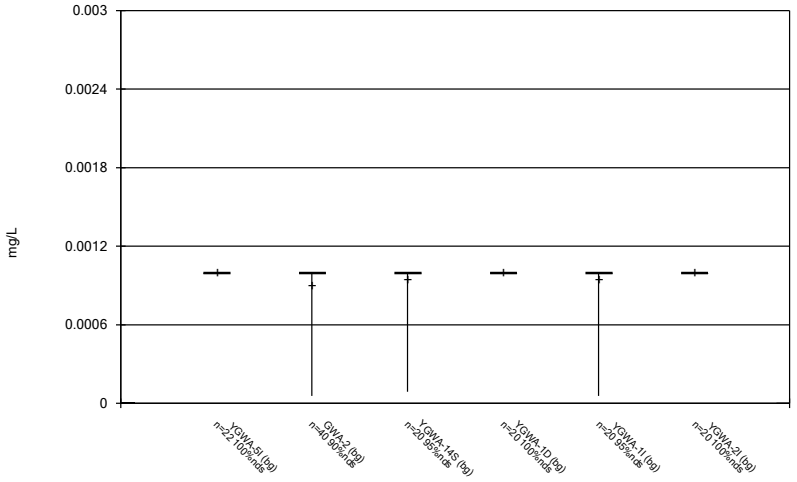


Constituent: Thallium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

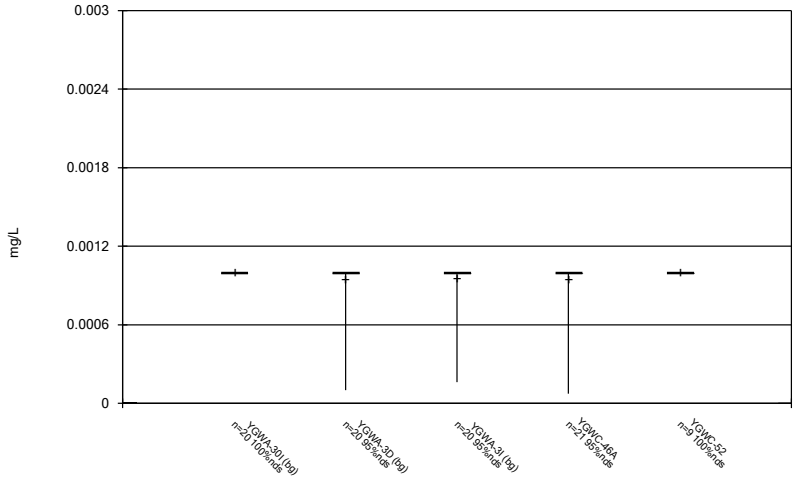


Constituent: Thallium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

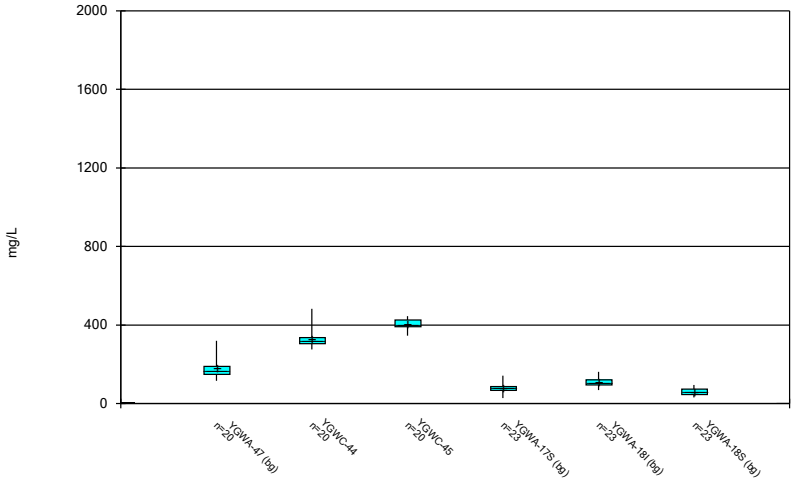


Constituent: Thallium Analysis Run 11/6/2024 6:14 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

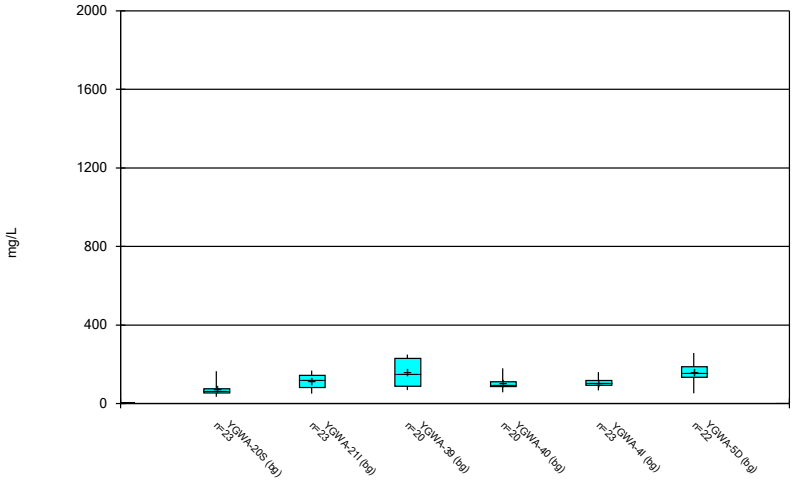
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

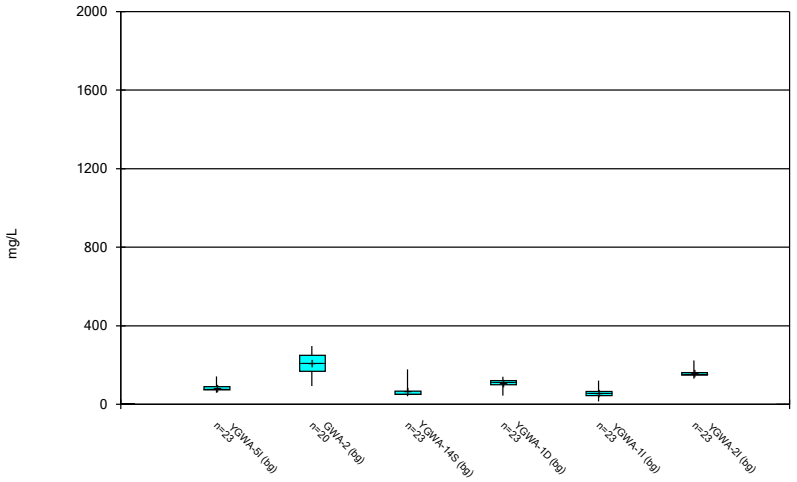
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

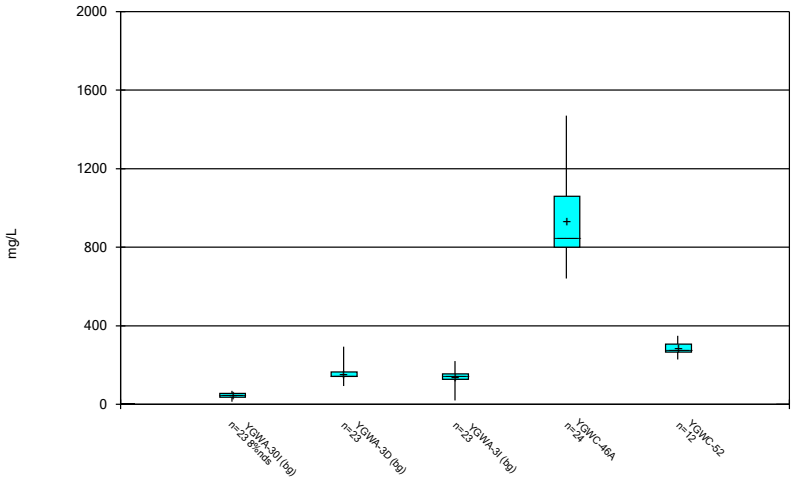
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/24/2024, 11:24 AM

	YGWC-45 Cobalt (mg/L)	GWA-2 Cobalt (mg/L)	YGWA-5D Total Dissolved Solids [TDS] (mg/L)
4/3/2018	<0.01 (O)		
8/26/2020		0.2 (O)	
9/22/2020		0.16 (O)	
3/2/2021		0.21 (O)	
8/20/2021		0.074 (O)	
2/8/2022		0.072 (O)	
8/30/2022		0.075 (O)	
2/20/2024			639 (o)

Tukey's Outlier Test - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/5/2024, 8:14 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**0.0671,0.0656,0.0598,0.061,0.061,0.061,0.071,0.06**	**NP**	**NaN**	**495**	**0.01707**	**0.01723**	**normal**	**ShapiroWilk**
Boron, total (mg/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**0.13,0.13,0.13,0.14,0.15,0.15,0.156,0.146,0.16**	**NP**	**NaN**	**425**	**0.03251**	**0.02478**	**normal**	**ShapiroWilk**
Combined Radium 226 + 228 (pCi/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**5.11,6.92,3.96,3.96,4.53,4.43,4.43,4.8,4.16,3.99,**	**NP**	**NaN**	**474**	**1.099**	**1.049**	**normal**	**ShapiroWilk**
Molybdenum (mg/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**0.0007,0.0008,0.0045,0.0045,0.0045,0.0035,0.0035,**	**NP**	**NaN**	**438**	**0.008791**	**0.002896**	**normal**	**ShapiroWilk**
Sulfate as SO4 (mg/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**160,150,120,120,110,93,88.8,75,75,65.9,52.3,71.6,**	**NP**	**NaN**	**425**	**14.35**	**25.04**	**normal**	**ShapiroWilk**
Total Dissolved Solids [TDS] (mg/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**639**	**NP**	**NaN**	**425**	**113.1**	**61.2**	**normal**	**ShapiroWilk**

Tukey's Outlier Test - Upgradient Wells - All Results

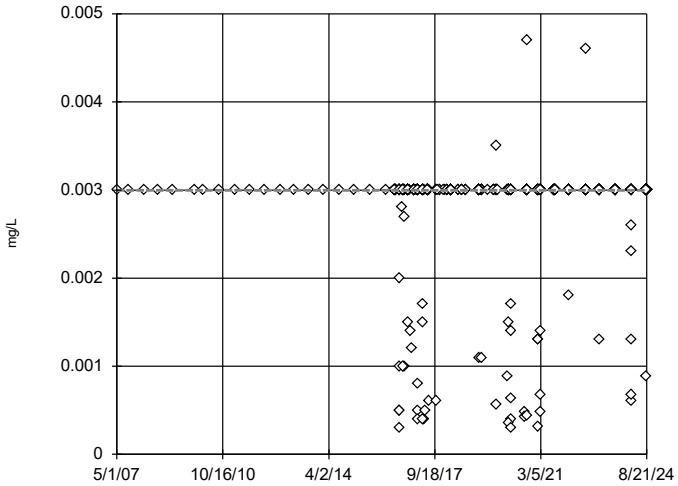
Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/5/2024, 8:14 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	447	0.002788	0.000671	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	495	0.004205	0.001474	unknown	ShapiroWilk
Barium (mg/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**0.0671,0.0656,0.0598,0.061,0.061,0.061,0.071,0.06**	**NP**	**NaN**	**495**	**0.01707**	**0.01723**	**normal**	**ShapiroWilk**
Beryllium (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	479	0.0004313	0.0001496	unknown	ShapiroWilk
Boron, total (mg/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**0.13,0.13,0.13,0.14,0.15,0.15,0.156,0.146,0.16**	**NP**	**NaN**	**425**	**0.03251**	**0.02478**	**normal**	**ShapiroWilk**
Cadmium (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	479	0.0004848	0.00007443	unknown	ShapiroWilk
Calcium, total (mg/L)	YGWA-47,YGWA-17S,...	No	n/a	NP	NaN	425	10.33	9.973	normal	ShapiroWilk
Chloride, Total (mg/L)	YGWA-47,YGWA-17S,...	No	n/a	NP	NaN	425	3.628	2.274	normal	ShapiroWilk
Chromium (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	447	0.004354	0.001532	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	495	0.006876	0.01599	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**5.11,6.92,3.96,3.96,4.53,4.43,4.43,4.8,4.16,3.99,**	**NP**	**NaN**	**474**	**1.099**	**1.049**	**normal**	**ShapiroWilk**
Fluoride, total (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	494	0.1164	0.09204	unknown	ShapiroWilk
Lead (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	449	0.000896	0.00029	unknown	ShapiroWilk
Lithium (mg/L)	YGWA-47,YGWA-17S,...	No	n/a	NP	NaN	474	0.01336	0.01145	normal	ShapiroWilk
Mercury (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	403	0.0001933	0.00003992	unknown	ShapiroWilk
Molybdenum (mg/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**0.0007,0.0008,0.0045,0.0045,0.0045,0.0035,0.0035,**	**NP**	**NaN**	**438**	**0.008791**	**0.002896**	**normal**	**ShapiroWilk**
pH, Field (S.U.)	YGWA-47,YGWA-17S,...	No	n/a	NP	NaN	505	6.224	0.8143	normal	ShapiroWilk
Selenium (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	477	0.004769	0.0008663	unknown	ShapiroWilk
Sulfate as SO4 (mg/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**160,150,120,120,110,93,88.8,75,75,65.9,52.3,71.6,**	**NP**	**NaN**	**425**	**14.35**	**25.04**	**normal**	**ShapiroWilk**
Thallium (mg/L)	YGWA-47,YGWA-17S,...	n/a	n/a	NP	NaN	413	0.0009777	0.0001418	unknown	ShapiroWilk
Total Dissolved Solids [TDS] (mg/L)	**YGWA-47,YGWA-17S,...**	**Yes**	**639**	**NP**	**NaN**	**425**	**113.1**	**61.2**	**normal**	**ShapiroWilk**

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 447

No outliers found.
Tukey's method selected by user.

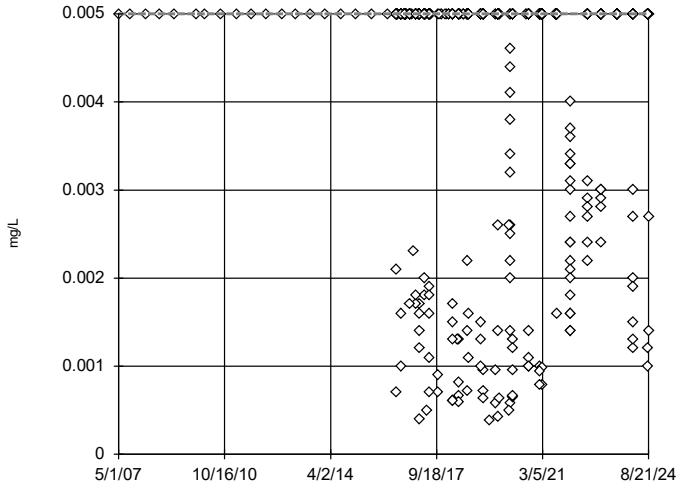
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 495

No outliers found.
Tukey's method selected by user.

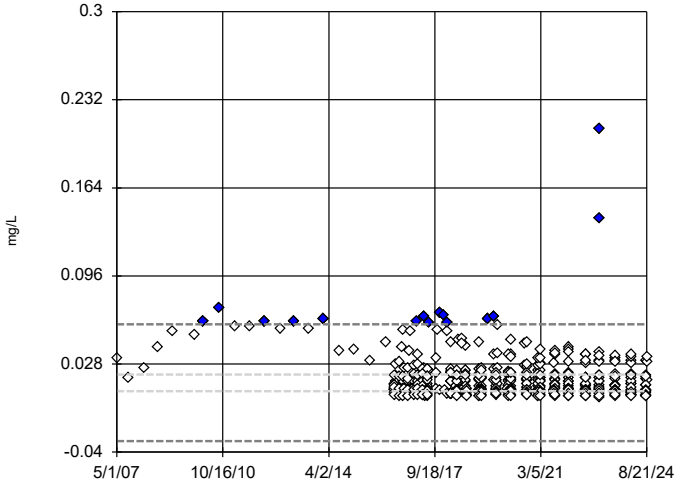
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 495

Outliers are drawn as solid.
Tukey's method selected by user.

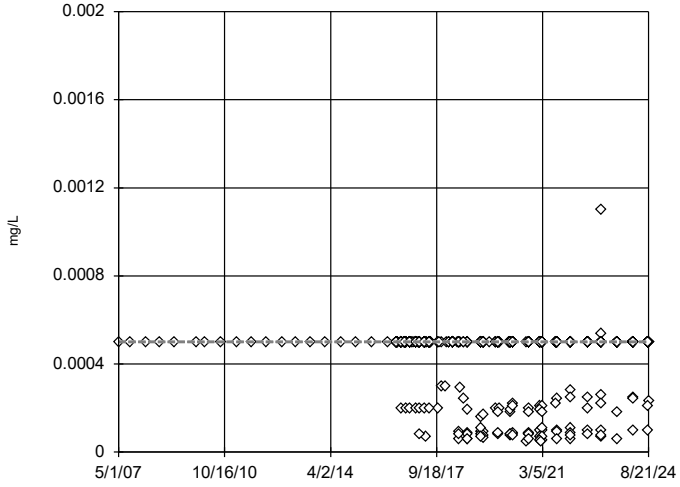
High cutoff = 0.0587, low cutoff = -0.0316, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 479

No outliers found.
Tukey's method selected by user.

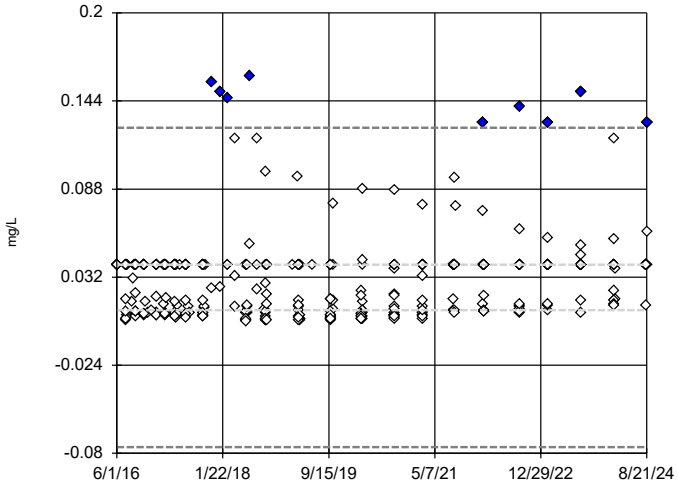
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 425

Outliers are drawn as solid.
Tukey's method selected by user.

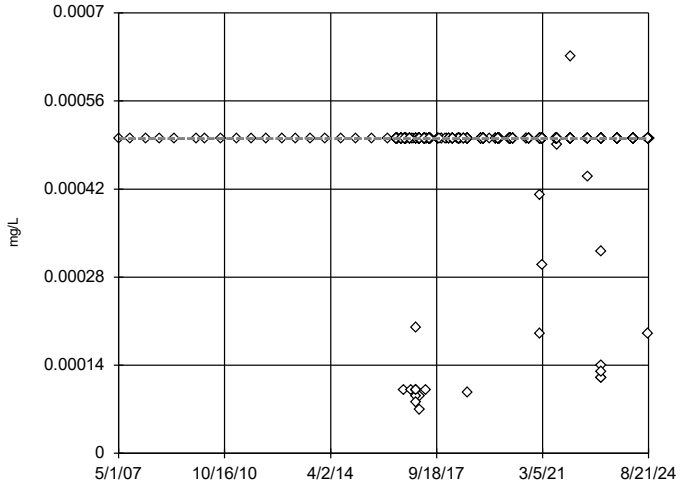
High cutoff = 0.127, low cutoff = -0.076, based on IQR multiplier of 3.

Constituent: Boron, total Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 479

No outliers found.
Tukey's method selected by user.

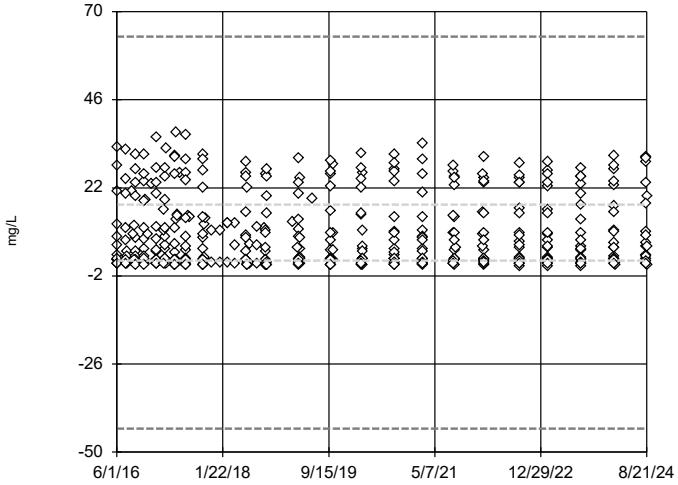
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 425

No outliers found.
Tukey's method selected by user.

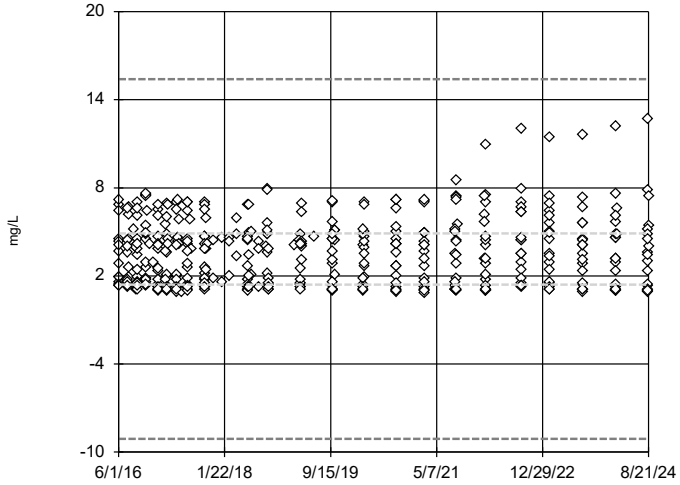
High cutoff = 63.23, low cutoff = -43.59, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 425

No outliers found.
Tukey's method selected by user.

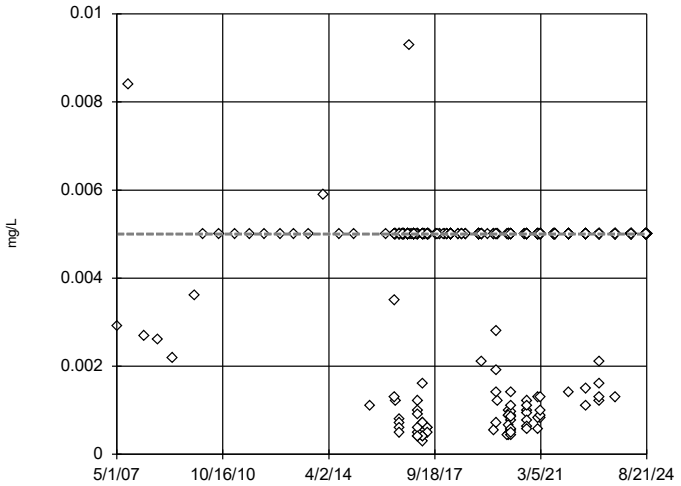
High cutoff = 15.4, low cutoff = -9.1, based on IQR multiplier of 3.

Constituent: Chloride, Total Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 447

No outliers found.
Tukey's method selected by user.

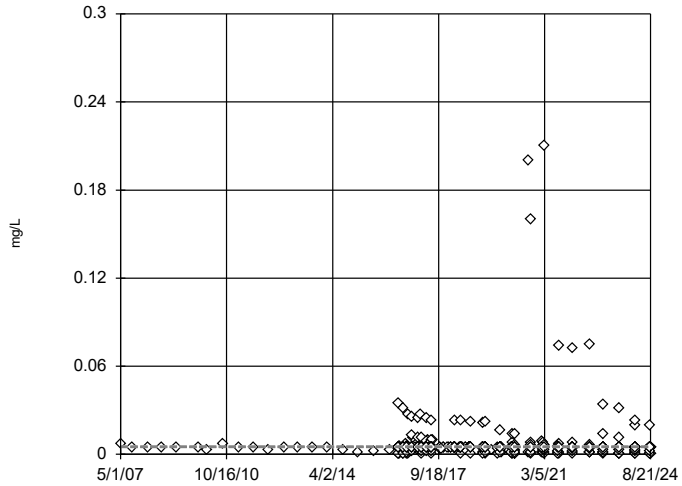
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 495

No outliers found.
Tukey's method selected by user.

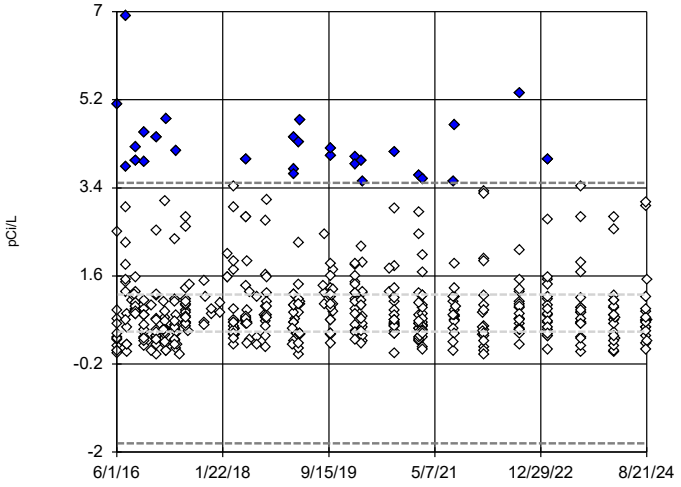
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 474

Outliers are drawn as solid.
Tukey's method selected by user.

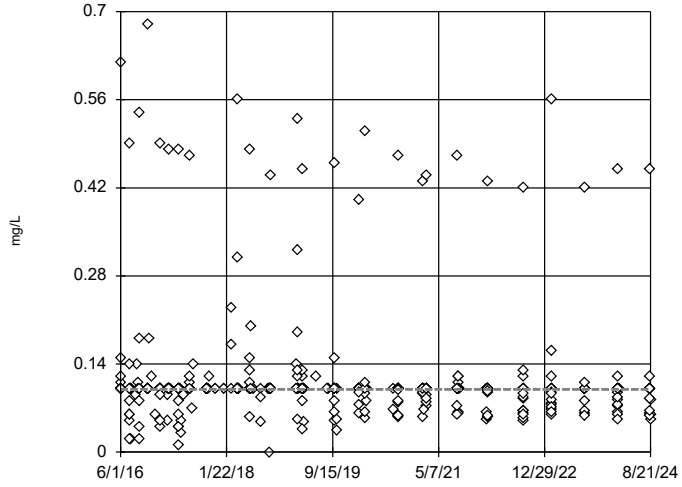
High cutoff = 3.502, low cutoff = -1.822, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 494

No outliers found.
Tukey's method selected by user.

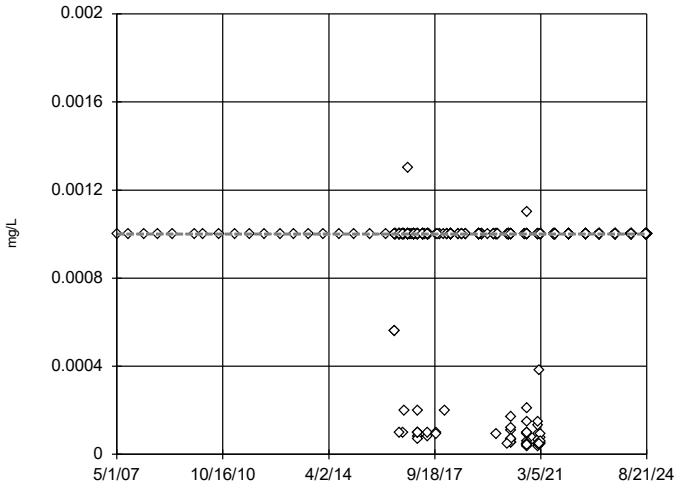
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Fluoride, total Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 449

No outliers found.
Tukey's method select-ed by user.

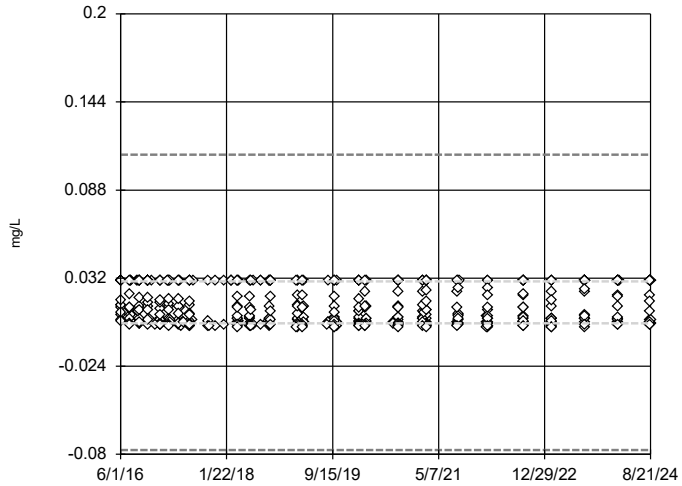
The results were invalid-ated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 474

No outliers found.
Tukey's method select-ed by user.

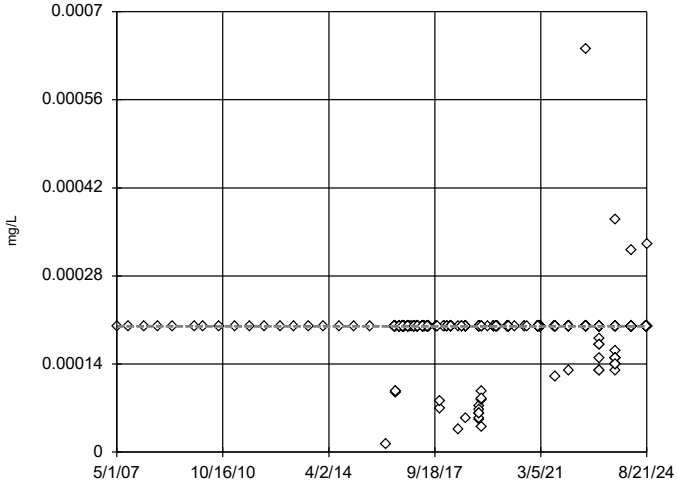
High cutoff = 0.1104, low cutoff = -0.0772, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 403

No outliers found.
Tukey's method select-ed by user.

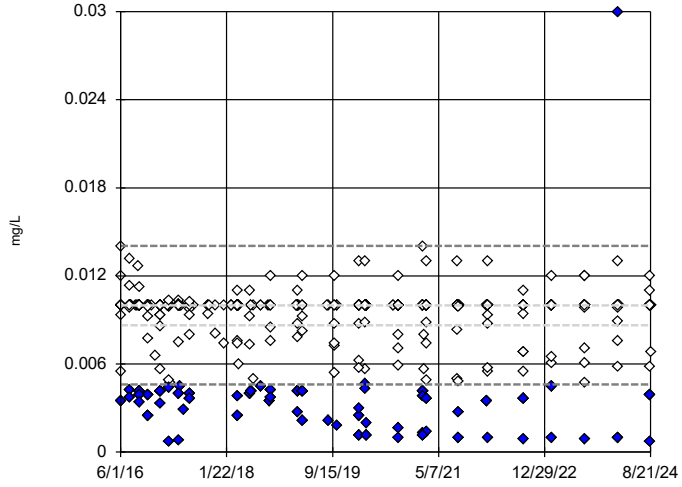
The results were invalid-ated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 438

Outliers are drawn as solid.
Tukey's method select-ed by user.

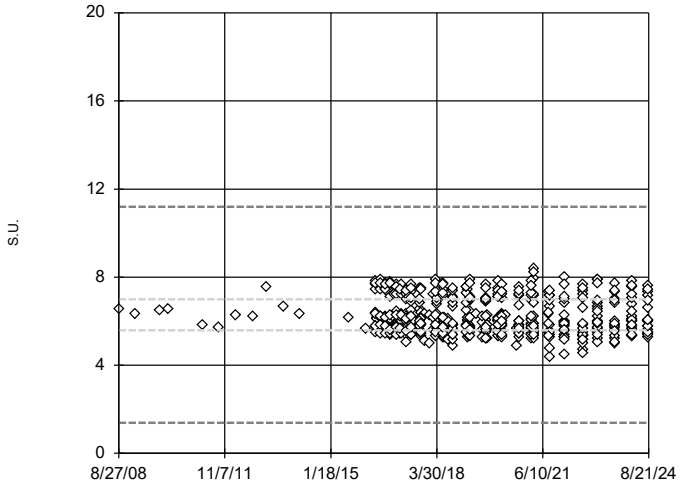
High cutoff = 0.01405, low cutoff = 0.0046, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 505

No outliers found.
Tukey's method selected by user.

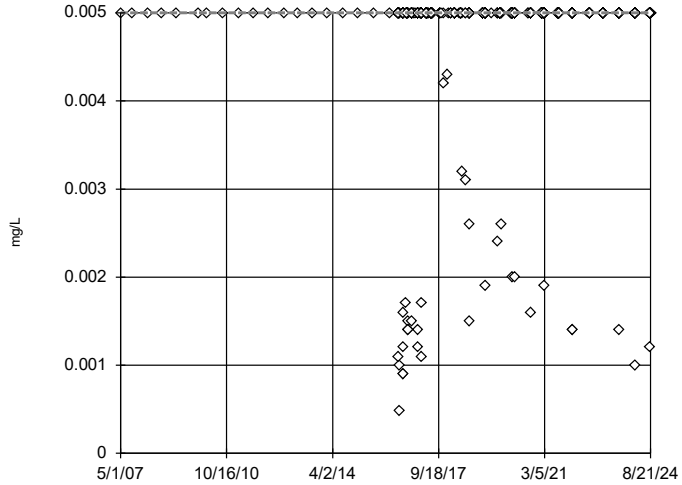
High cutoff = 11.19, low cutoff = 1.39, based on IQR multiplier of 3.

Constituent: pH, Field Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 477

No outliers found.
Tukey's method selected by user.

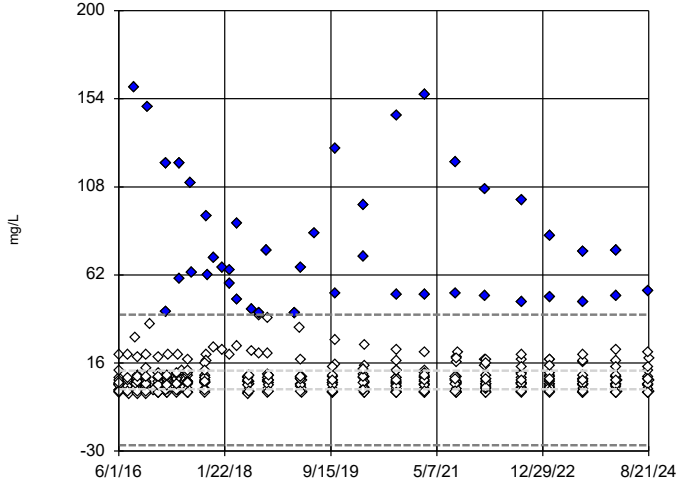
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 425

Outliers are drawn as solid.
Tukey's method selected by user.

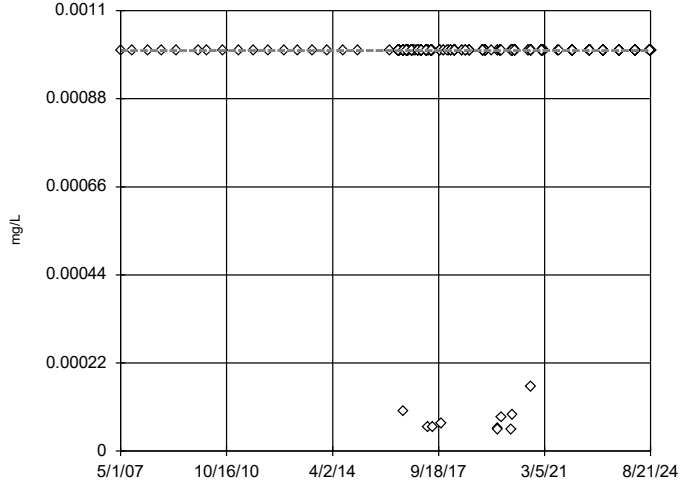
High cutoff = 41.25, low cutoff = -27, based on IQR multiplier of 3.

Constituent: Sulfate as SO4 Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 413

No outliers found.
Tukey's method selected by user.

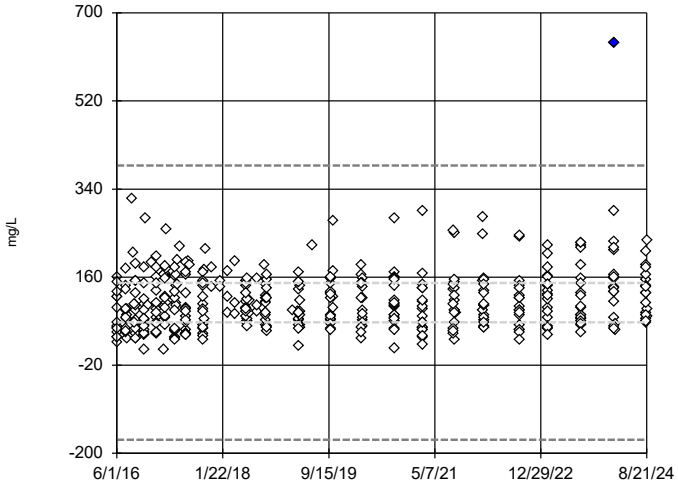
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



n = 425

Outlier is drawn as solid. Tukey's method select-ed by user.

High cutoff = 388, low cutoff = -172, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Scree

Plant Yates Client: Southern Company Data: Yates Ash Pond1

FIGURE D.

Appendix III Trend Tests - Upgradient Wells - Significant Results

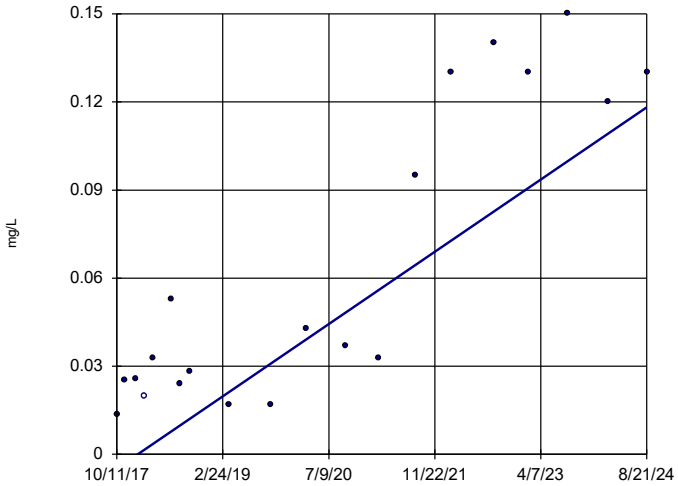
Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/5/2024, 7:50 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	YGWA-39 (bg)	0.01793	115	81	Yes	20	5	n/a	0.01	NP
Boron, total (mg/L)	YGWA-40 (bg)	-0.01202	-131	-81	Yes	20	0	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5D (bg)	0.0007069	99	98	Yes	23	26.09	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-47 (bg)	-0.8737	-132	-81	Yes	20	5	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-17S (bg)	0.1465	186	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-18S (bg)	-0.06725	-171	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-39 (bg)	2.49	121	81	Yes	20	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5D (bg)	-1.034	-107	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5I (bg)	0.06991	145	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1D (bg)	0.5198	135	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1I (bg)	-0.07033	-126	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3I (bg)	0.478	103	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-47 (bg)	-0.3342	-132	-81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-17S (bg)	0.914	205	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-18I (bg)	0.1003	131	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-20S (bg)	0.09204	163	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-40 (bg)	0.2393	106	81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-5D (bg)	-0.5475	-187	-98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-2 (bg)	0.2946	117	81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3D (bg)	-0.0326	-128	-98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3I (bg)	-0.0226	-105	-98	Yes	23	0	n/a	0.01	NP
Fluoride, total (mg/L)	YGWA-3D (bg)	-0.01072	-141	-124	Yes	27	3.704	n/a	0.01	NP
pH, Field (S.U.)	YGWA-18S (bg)	-0.0383	-183	-124	Yes	27	0	n/a	0.01	NP
pH, Field (S.U.)	YGWA-21I (bg)	0.08208	149	124	Yes	27	0	n/a	0.01	NP
pH, Field (S.U.)	YGWA-39 (bg)	-0.1431	-122	-98	Yes	23	0	n/a	0.01	NP
pH, Field (S.U.)	GWA-2 (bg)	-0.04422	-250	-184	Yes	35	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-47 (bg)	-10.68	-149	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-18I (bg)	-0.09033	-116	-98	Yes	23	21.74	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-39 (bg)	-2.451	-142	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-40 (bg)	-5.801	-141	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5D (bg)	-2.152	-197	-98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5I (bg)	0.0842	177	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-1D (bg)	0.8848	191	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-2I (bg)	1.44	132	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3D (bg)	0.2355	132	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3I (bg)	0.8717	133	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-47 (bg)	-9.336	-108	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-21I (bg)	9.422	118	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-39 (bg)	25.35	110	81	Yes	20	0	n/a	0.01	NP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 0.01793 units per year.

Mann-Kendall statistic = 115
critical = 81

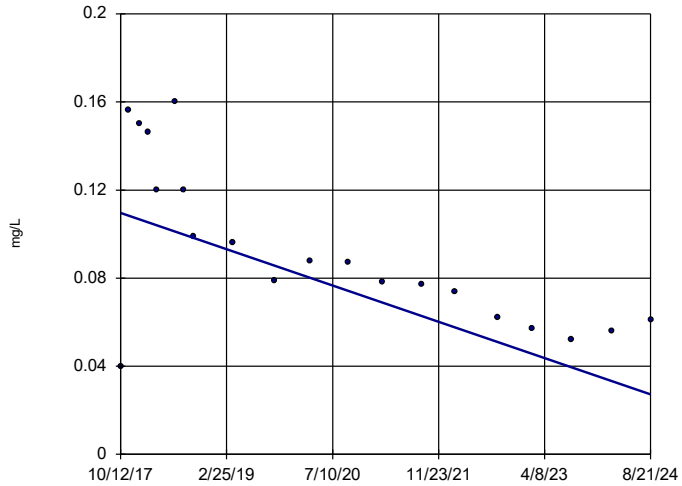
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 11/5/2024 7:45 PM View: Appendix III - Upgradient Wells Screenin
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -0.01202 units per year.

Mann-Kendall statistic = -131
critical = -81

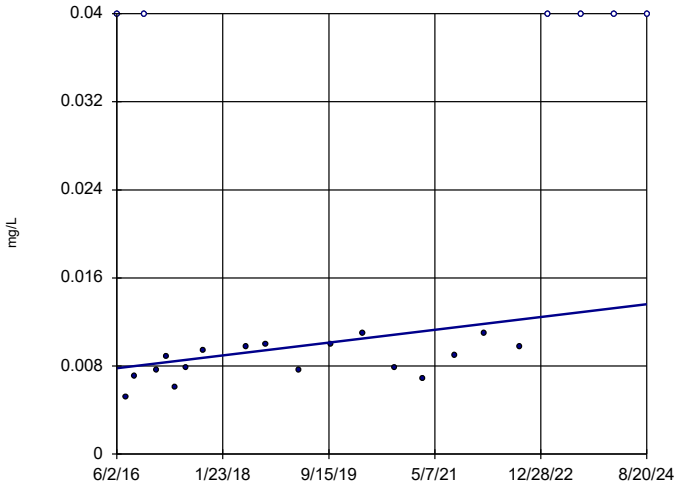
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 11/5/2024 7:45 PM View: Appendix III - Upgradient Wells Screenin
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = 0.0007069 units per year.

Mann-Kendall statistic = 99
critical = 98

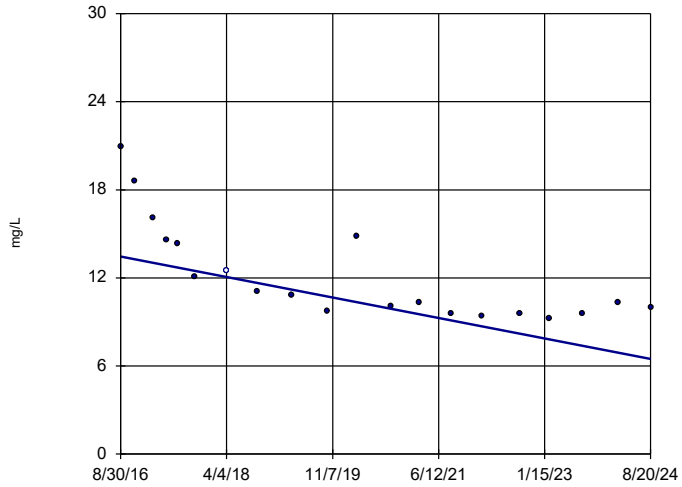
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 11/5/2024 7:45 PM View: Appendix III - Upgradient Wells Screenin
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.8737 units per year.

Mann-Kendall statistic = -132
critical = -81

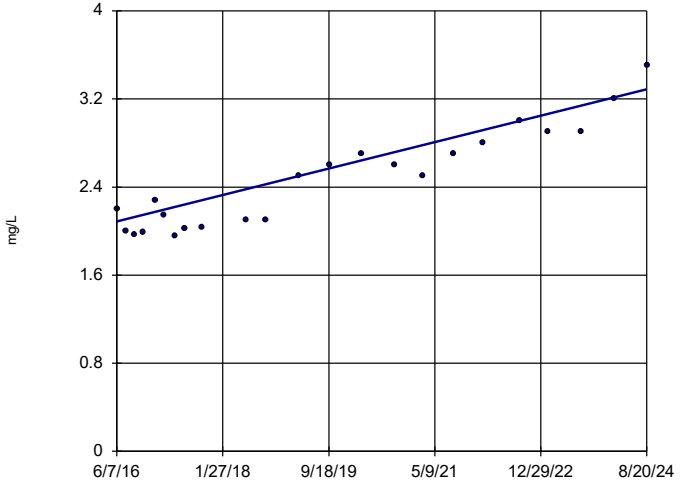
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:45 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.1465 units per year.

Mann-Kendall statistic = 186
critical = 98

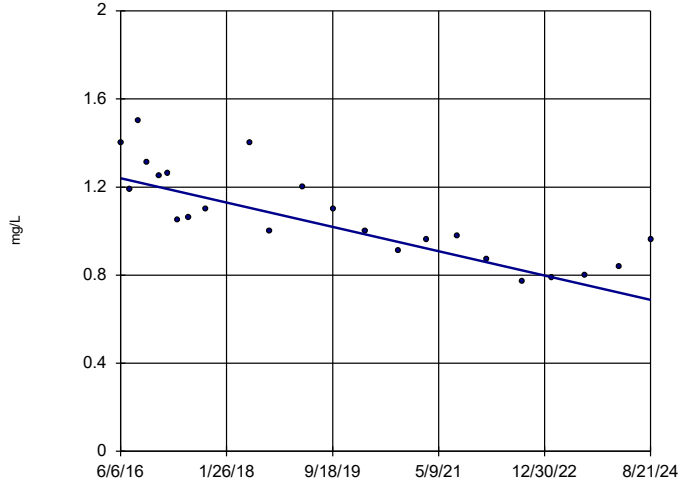
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:45 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = -0.06725 units per year.

Mann-Kendall statistic = -171
critical = -98

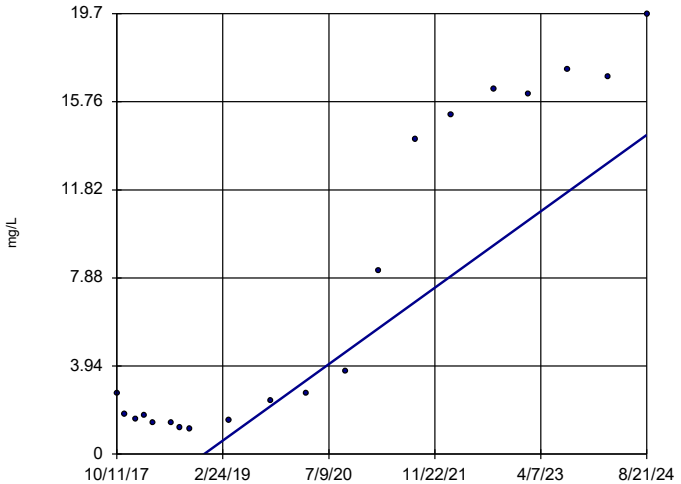
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:45 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 2.49 units per year.

Mann-Kendall statistic = 121
critical = 81

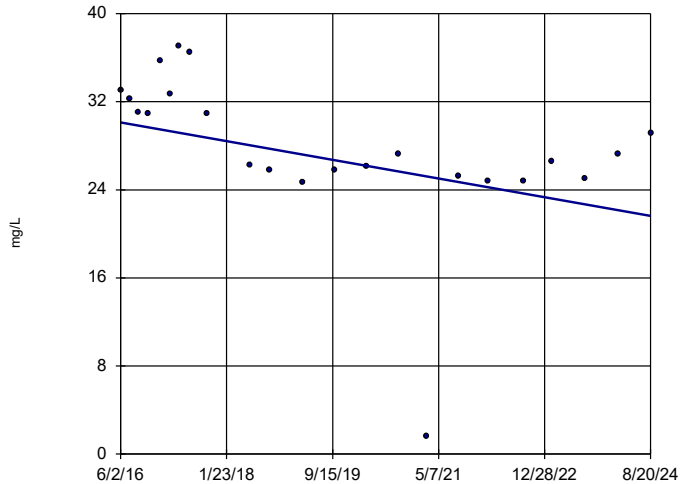
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:45 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -1.034 units per year.

Mann-Kendall statistic = -107
critical = -98

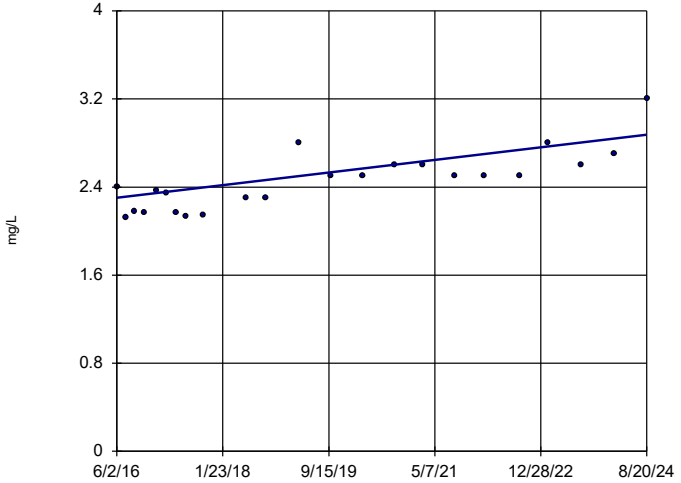
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:45 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.06991 units per year.

Mann-Kendall statistic = 145 critical = 98

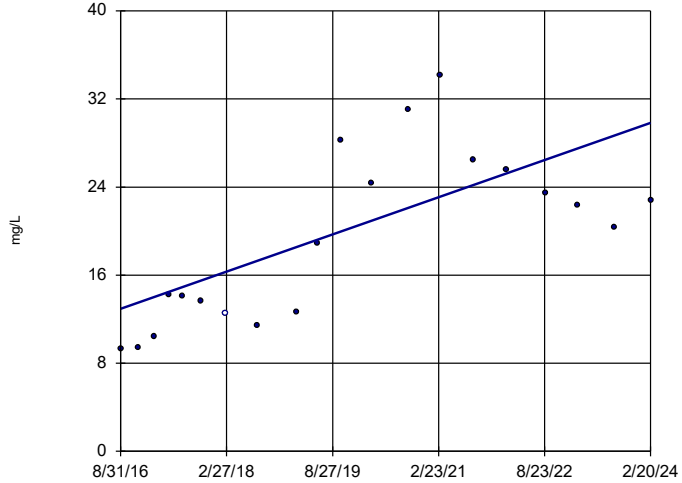
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 2.258 units per year.

Mann-Kendall statistic = 92 critical = 81

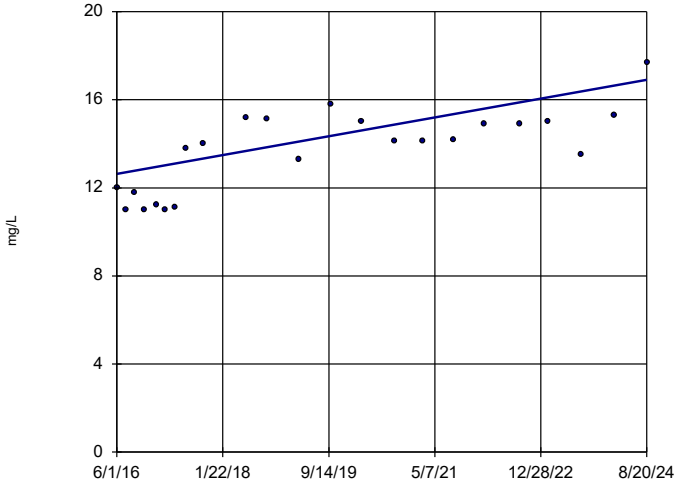
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.5198 units per year.

Mann-Kendall statistic = 135 critical = 98

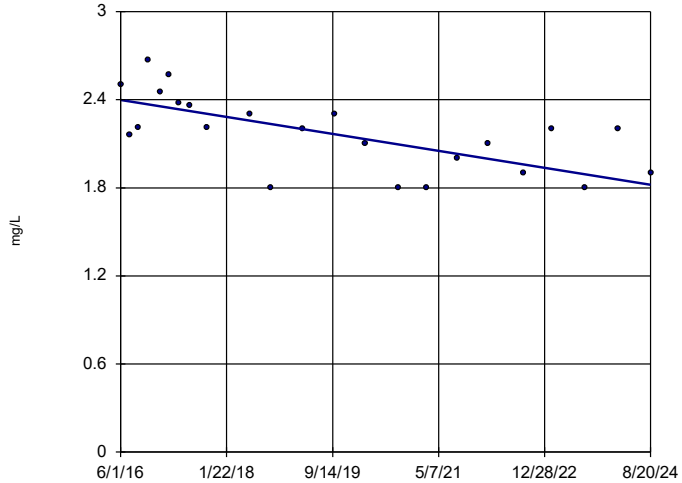
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = -0.07033 units per year.

Mann-Kendall statistic = -126 critical = -98

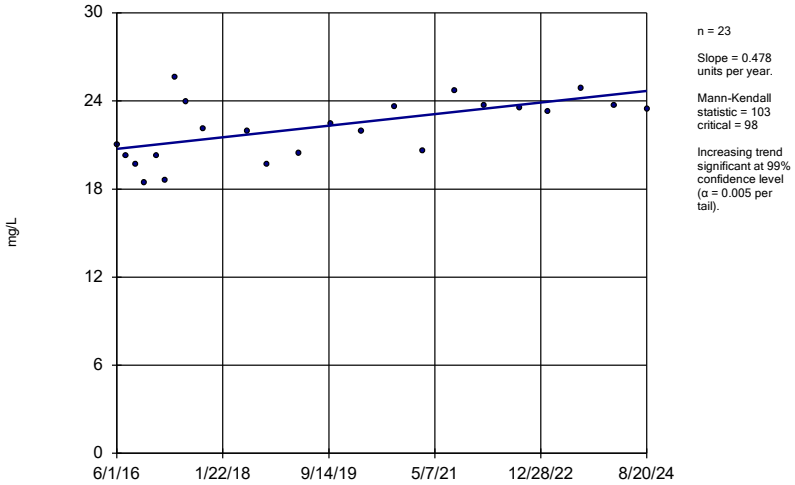
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0.478 units per year.

Mann-Kendall statistic = 103 critical = 98

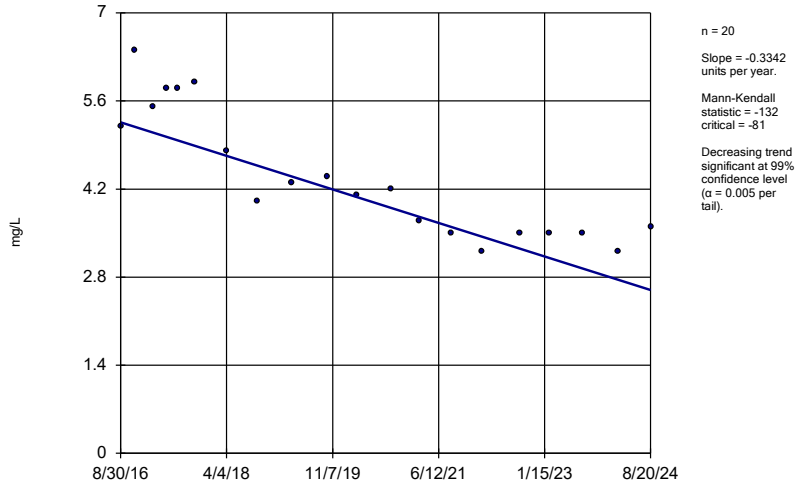
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.3342 units per year.

Mann-Kendall statistic = -132 critical = -81

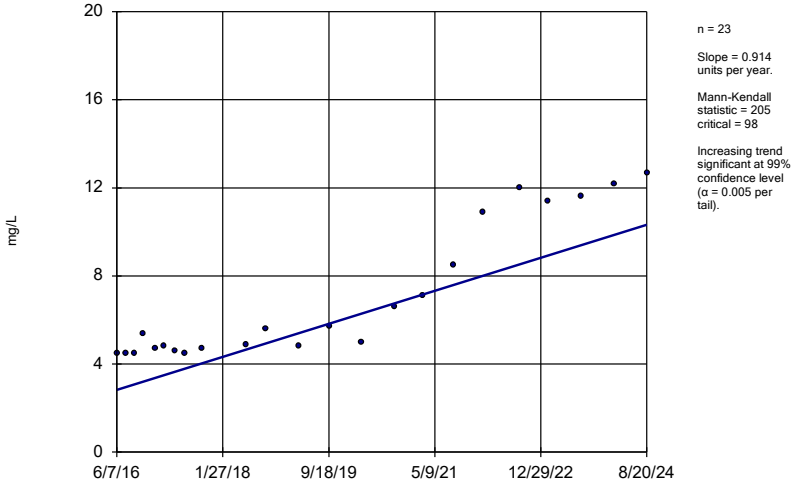
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.914 units per year.

Mann-Kendall statistic = 205 critical = 98

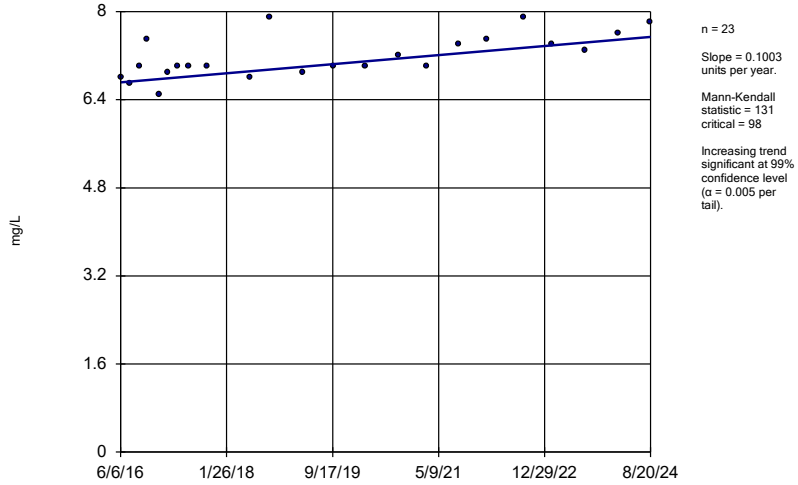
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0.1003 units per year.

Mann-Kendall statistic = 131 critical = 98

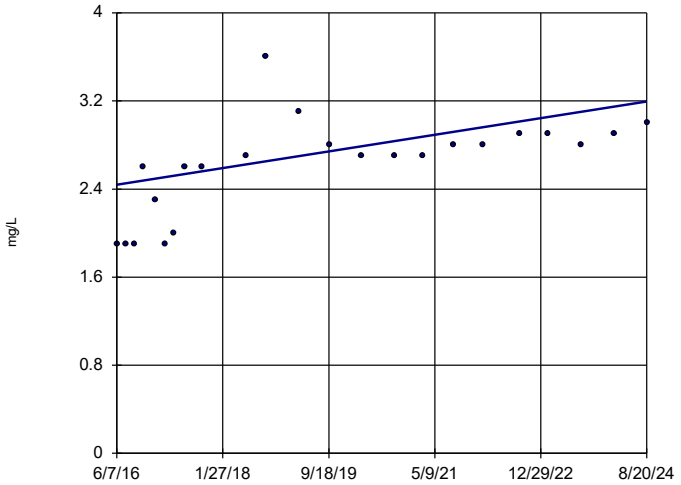
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0.09204 units per year.

Mann-Kendall statistic = 163
critical = 98

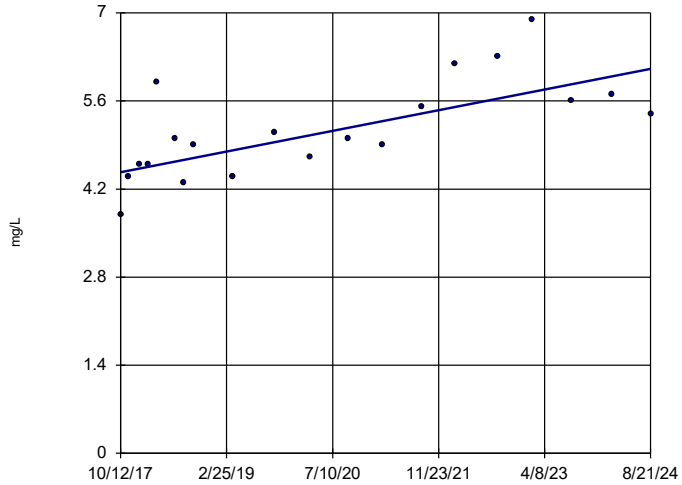
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = 0.2393 units per year.

Mann-Kendall statistic = 106
critical = 81

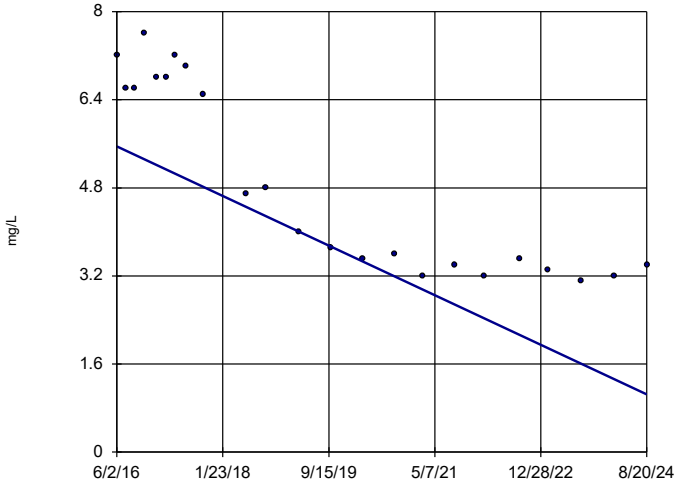
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -0.5475 units per year.

Mann-Kendall statistic = -187
critical = -98

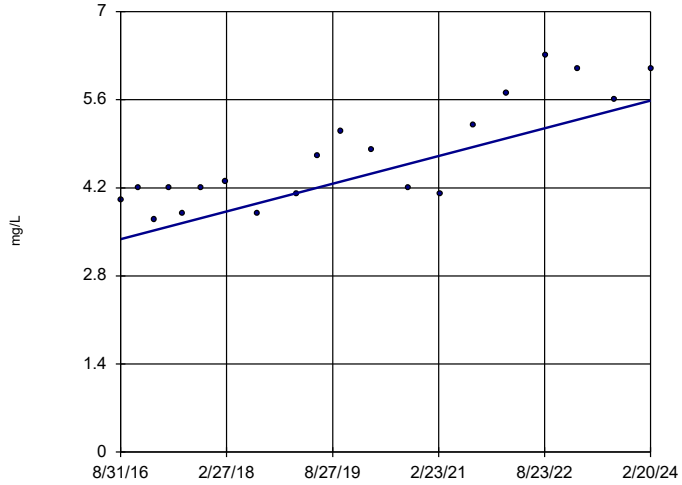
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0.2946 units per year.

Mann-Kendall statistic = 117
critical = 81

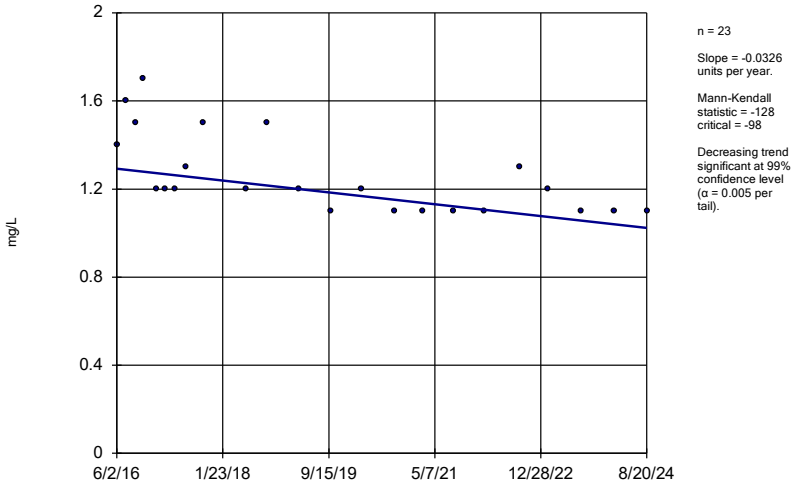
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = -0.0326 units per year.

Mann-Kendall statistic = -128
critical = -98

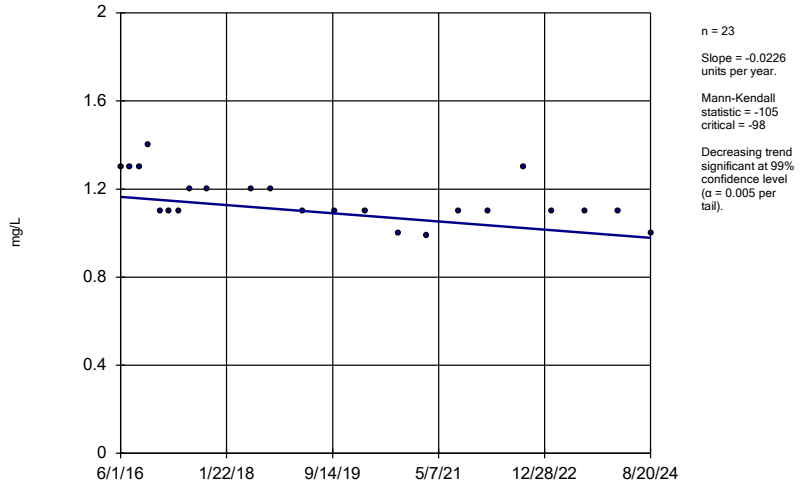
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = -0.0226 units per year.

Mann-Kendall statistic = -105
critical = -98

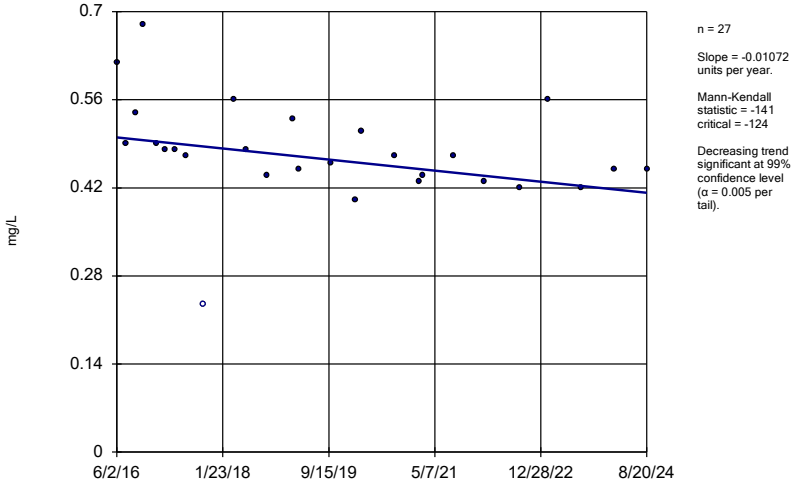
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 27

Slope = -0.01072 units per year.

Mann-Kendall statistic = -141
critical = -124

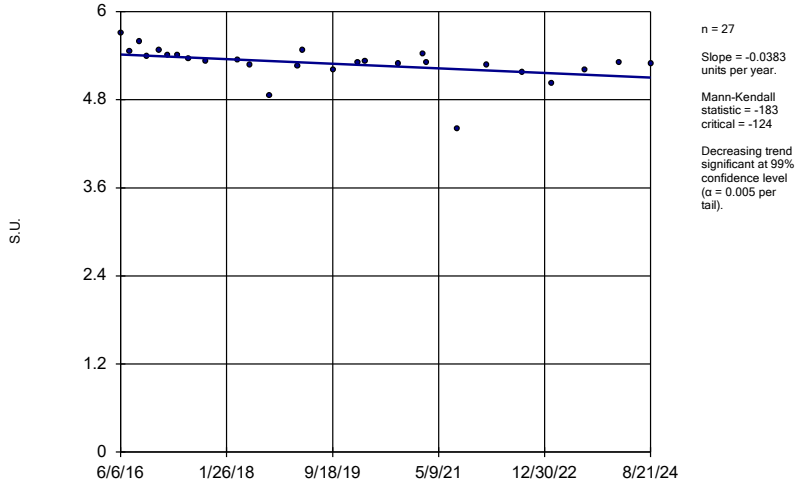
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 27

Slope = -0.0383 units per year.

Mann-Kendall statistic = -183
critical = -124

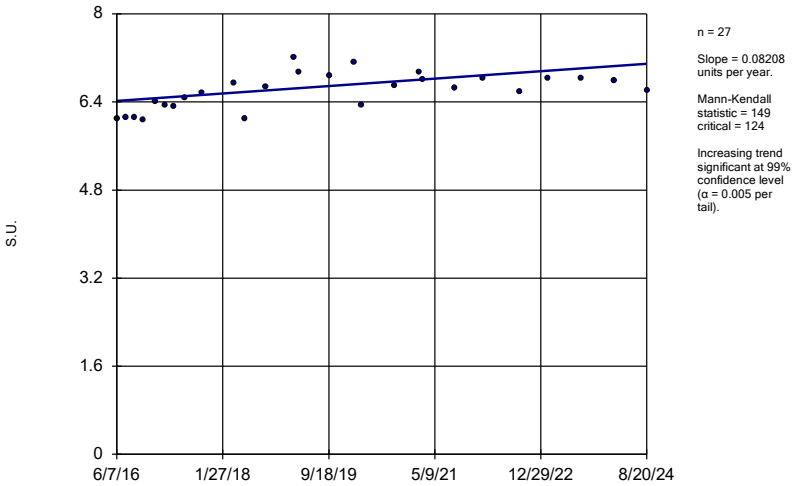
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 27

Slope = 0.08208 units per year.

Mann-Kendall statistic = 149 critical = 124

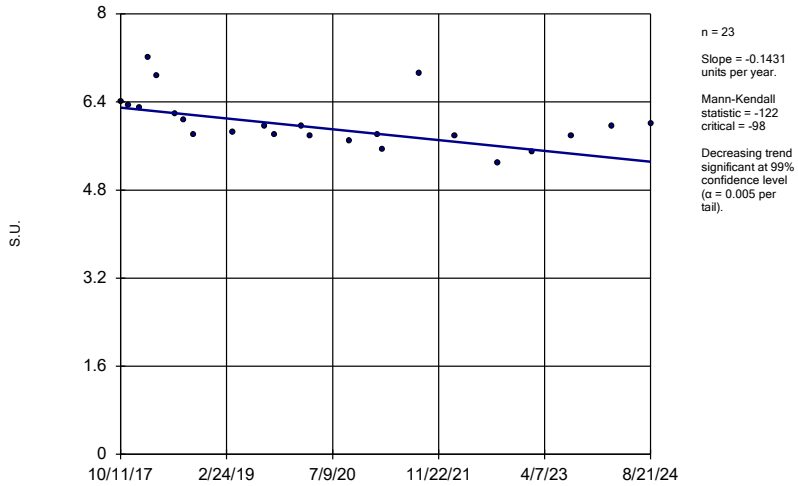
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 23

Slope = -0.1431 units per year.

Mann-Kendall statistic = -122 critical = -98

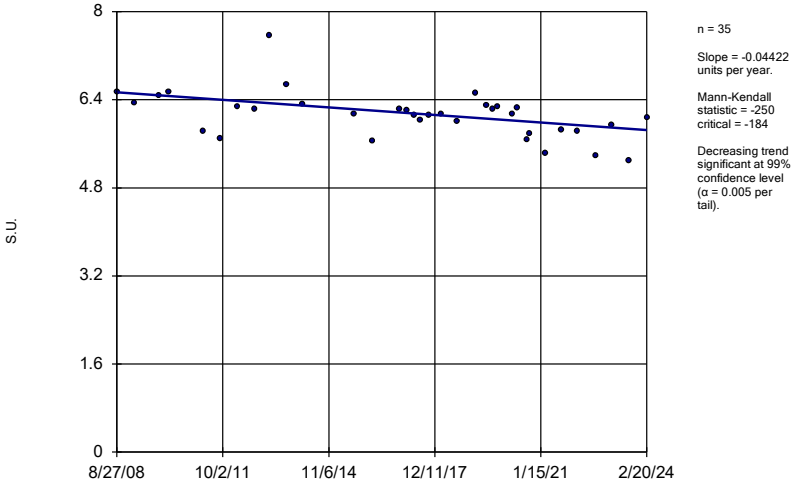
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 35

Slope = -0.04422 units per year.

Mann-Kendall statistic = -250 critical = -184

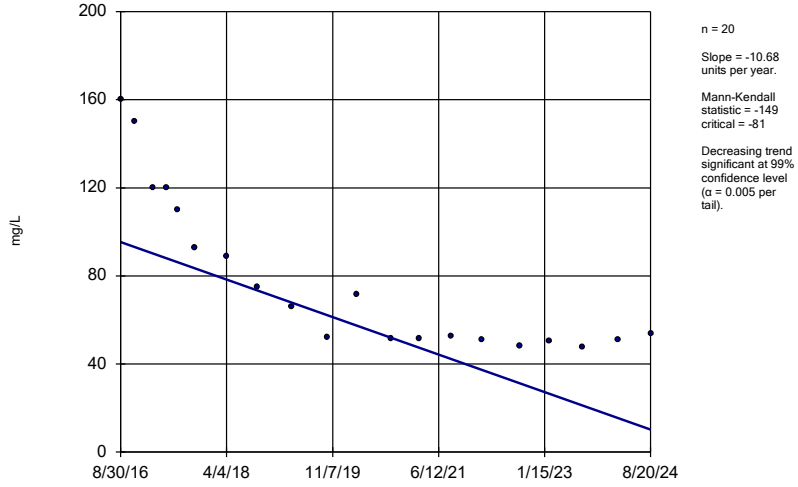
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -10.68 units per year.

Mann-Kendall statistic = -149 critical = -81

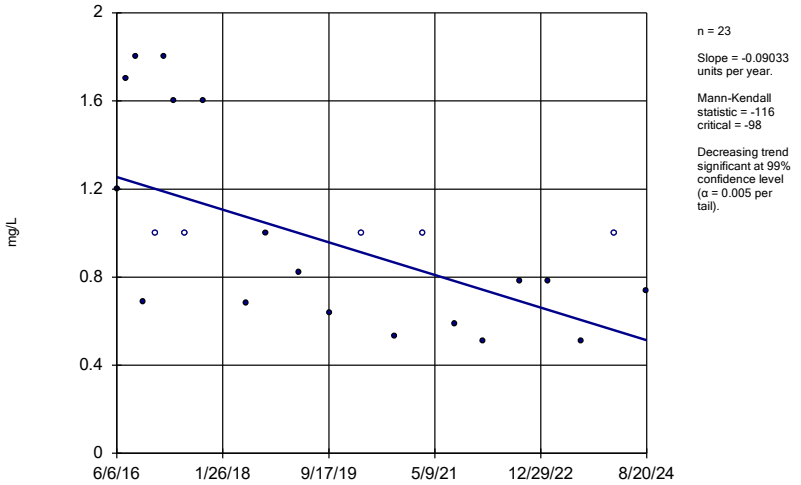
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = -0.09033 units per year.

Mann-Kendall statistic = -116
critical = -98

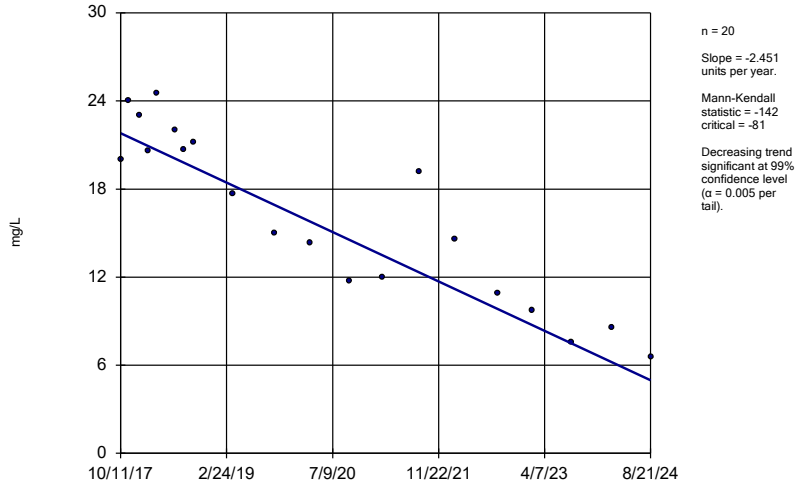
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = -2.451 units per year.

Mann-Kendall statistic = -142
critical = -81

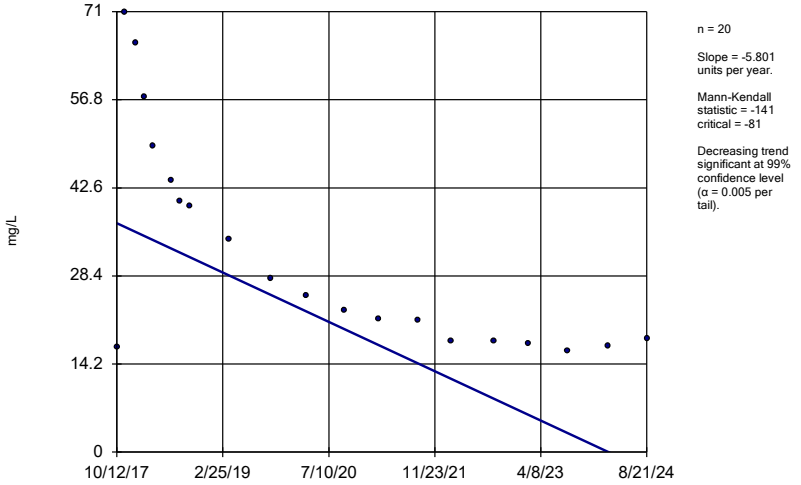
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -5.801 units per year.

Mann-Kendall statistic = -141
critical = -81

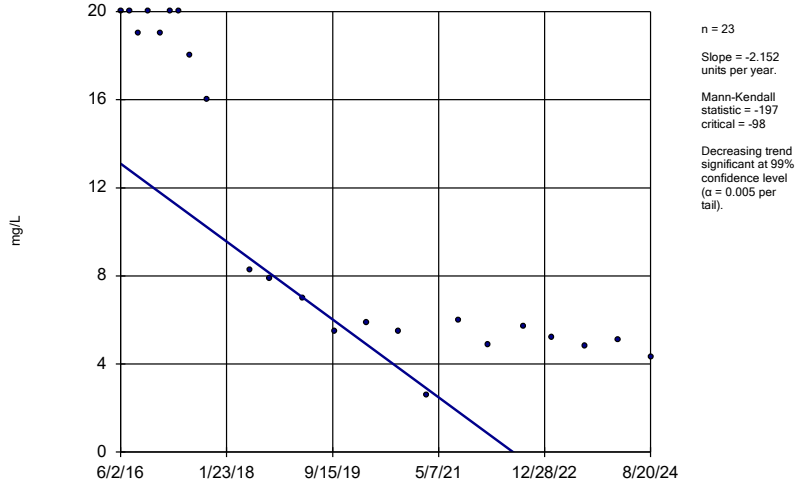
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -2.152 units per year.

Mann-Kendall statistic = -197
critical = -98

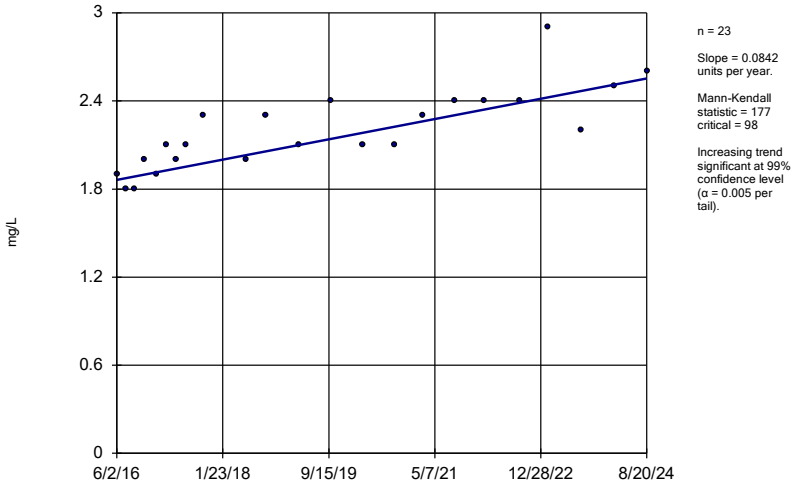
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.0842 units per year.

Mann-Kendall statistic = 177 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

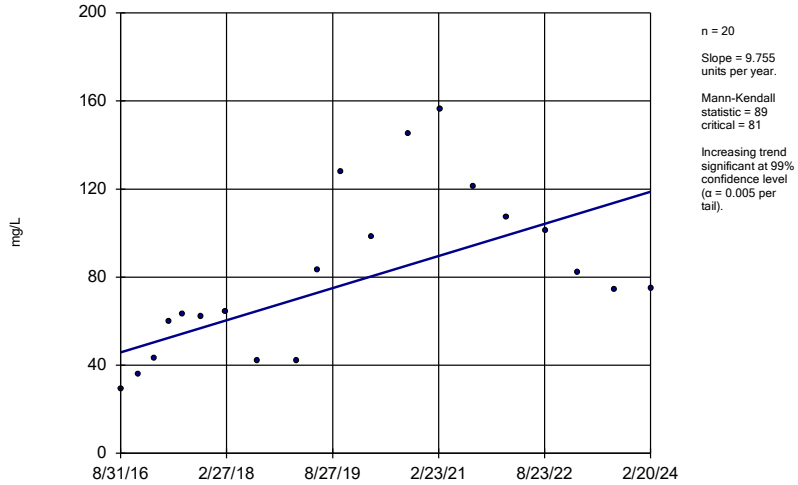
Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient Wells Scree

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 9.755 units per year.

Mann-Kendall statistic = 89 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

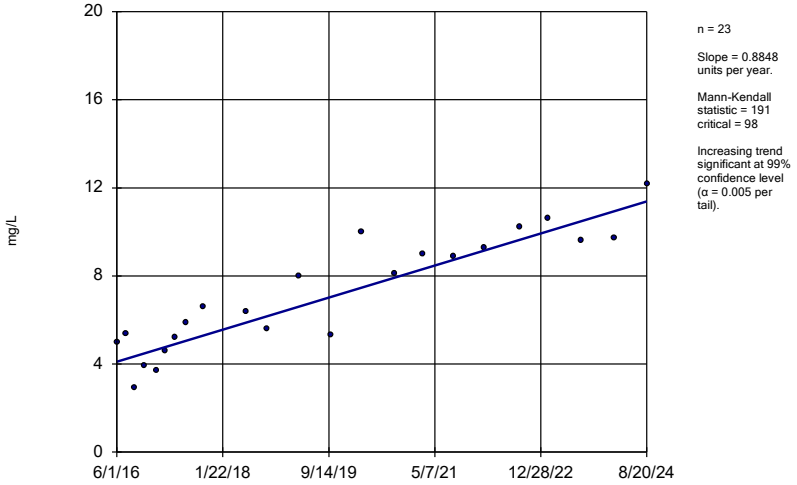
Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient Wells Scree

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.8848 units per year.

Mann-Kendall statistic = 191 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

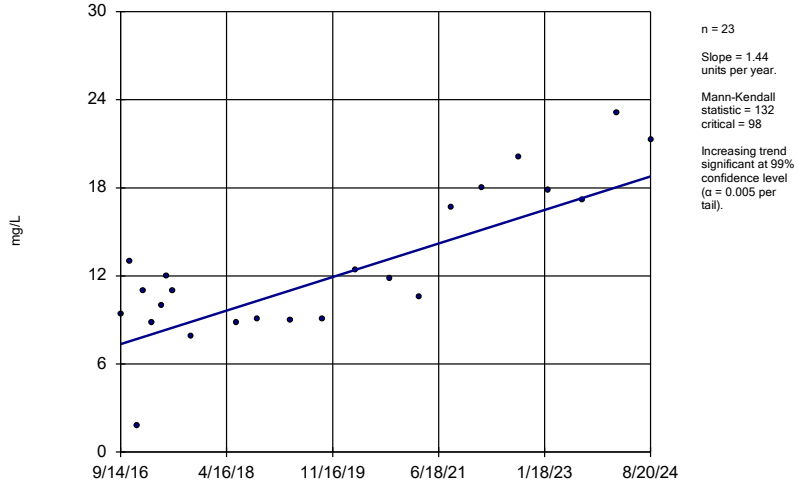
Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient Wells Scree

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 1.44 units per year.

Mann-Kendall statistic = 132 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

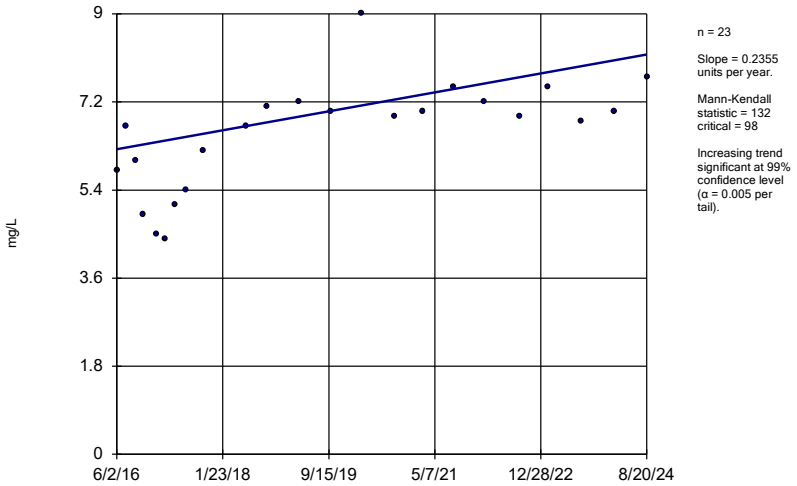
Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient Wells Scree

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0.2355 units per year.

Mann-Kendall statistic = 132
critical = 98

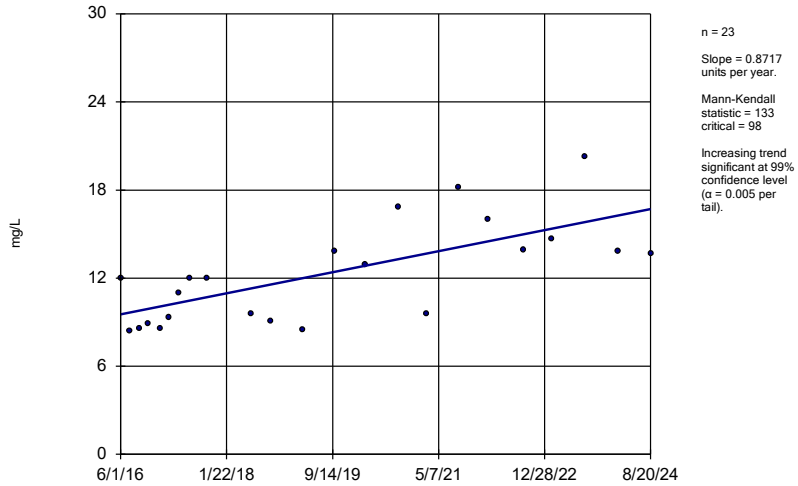
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0.8717 units per year.

Mann-Kendall statistic = 133
critical = 98

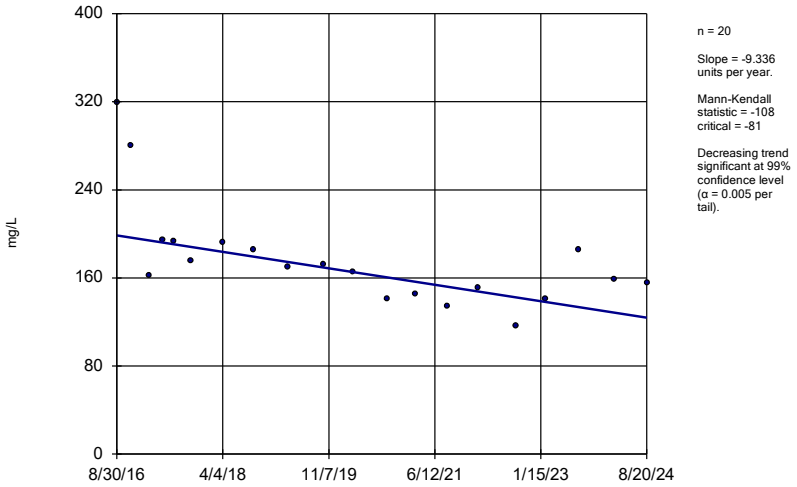
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -9.336 units per year.

Mann-Kendall statistic = -108
critical = -81

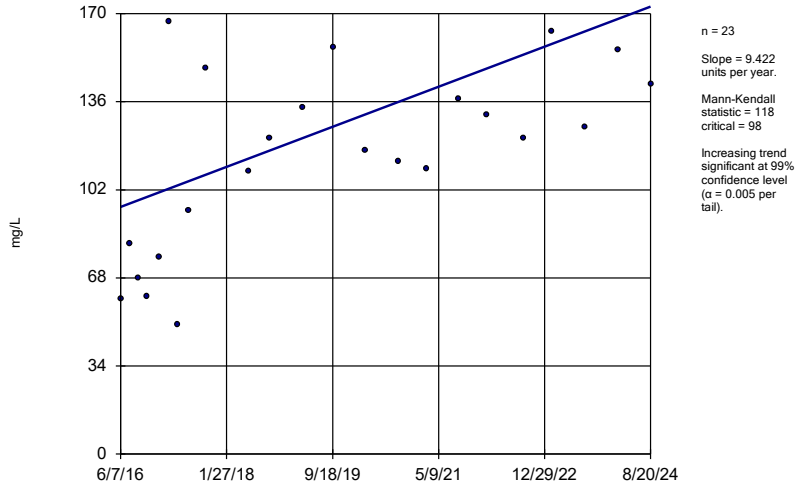
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradien
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 9.422 units per year.

Mann-Kendall statistic = 118
critical = 98

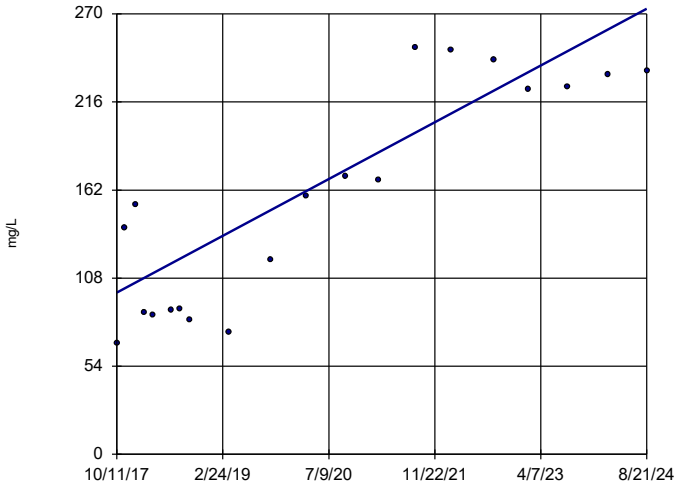
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradien
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 25.35 units per year.

Mann-Kendall statistic = 110
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradien

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Appendix IV Trend Tests - Upgradient Wells - Significant Results

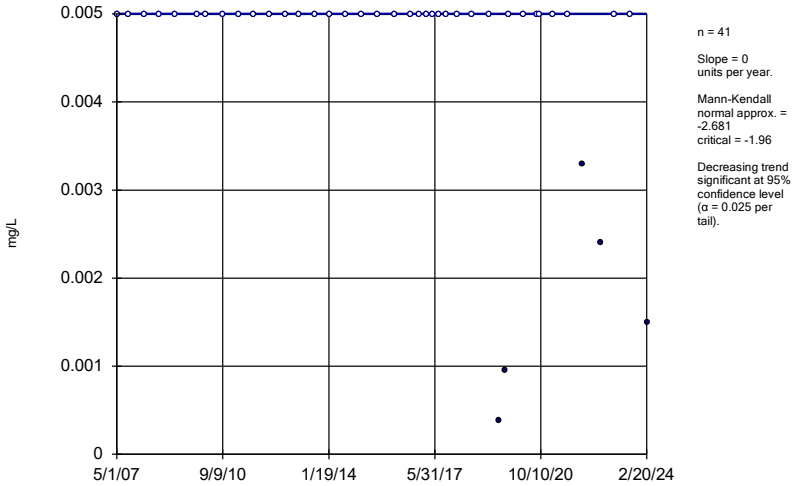
Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/5/2024, 8:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	GWA-2 (bg)	0	-2.681	-1.96	Yes	41	87.8	n/a	0.05	NP
Barium (mg/L)	YGWA-17S (bg)	0.0005801	208	85	Yes	25	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18I (bg)	-0.001001	-236	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18S (bg)	-0.0006772	-137	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-20S (bg)	-0.0003692	-133	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-39 (bg)	0.0043	150	71	Yes	22	9.091	n/a	0.05	NP
Barium (mg/L)	YGWA-40 (bg)	-0.002482	-103	-71	Yes	22	0	n/a	0.05	NP
Barium (mg/L)	YGWA-4I (bg)	-0.0002834	-107	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-5D (bg)	-0.0001426	-92	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-2I (bg)	-0.0002032	-134	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-3D (bg)	-0.0005074	-250	-90	Yes	26	3.846	n/a	0.05	NP
Beryllium (mg/L)	YGWA-18S (bg)	-0.000006801	-91	-90	Yes	26	42.31	n/a	0.05	NP
Cobalt (mg/L)	YGWA-47 (bg)	-0.0007522	-144	-66	Yes	21	4.762	n/a	0.05	NP
Cobalt (mg/L)	YGWA-39 (bg)	-0.000669	-92	-71	Yes	22	40.91	n/a	0.05	NP
Cobalt (mg/L)	YGWA-30I (bg)	-0.003971	-310	-90	Yes	26	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-21I (bg)	0.1046	112	90	Yes	26	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-40 (bg)	-0.1233	-105	-71	Yes	22	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-5D (bg)	-0.1935	-108	-90	Yes	26	0	n/a	0.05	NP
Fluoride, total (mg/L)	YGWA-39 (bg)	0	-79	-76	Yes	23	65.22	n/a	0.05	NP
Fluoride, total (mg/L)	YGWA-3D (bg)	-0.01072	-141	-96	Yes	27	3.704	n/a	0.05	NP
Lithium (mg/L)	YGWA-47 (bg)	-0.000209	-119	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-18I (bg)	-0.000215	-154	-90	Yes	26	7.692	n/a	0.05	NP
Lithium (mg/L)	YGWA-39 (bg)	0.0009005	122	71	Yes	22	4.545	n/a	0.05	NP
Lithium (mg/L)	YGWA-1D (bg)	-0.0007084	-110	-90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3D (bg)	0.0005738	158	90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3I (bg)	0.001358	190	90	Yes	26	0	n/a	0.05	NP
Selenium (mg/L)	YGWA-17S (bg)	0	124	85	Yes	25	76	n/a	0.05	NP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 41

Slope = 0
units per year.

Mann-Kendall
normal approx. =
-2.681
critical = -1.96

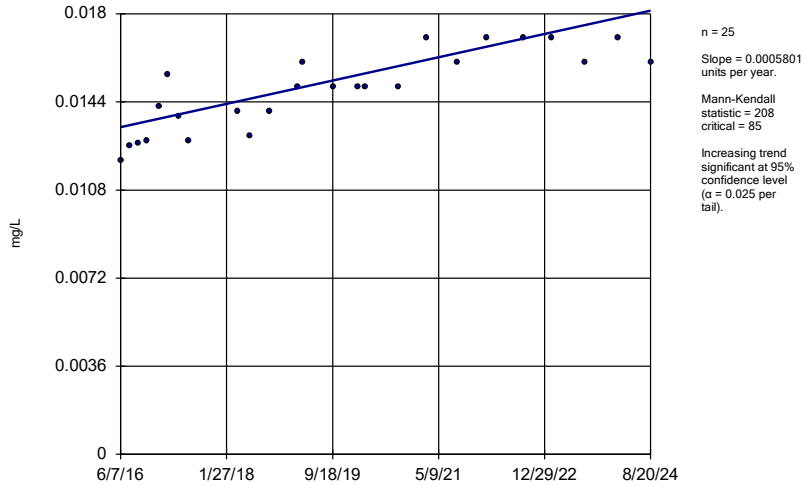
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Arsenic Analysis Run 11/5/2024 8:01 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0.0005801
units per year.

Mann-Kendall
statistic = 208
critical = 85

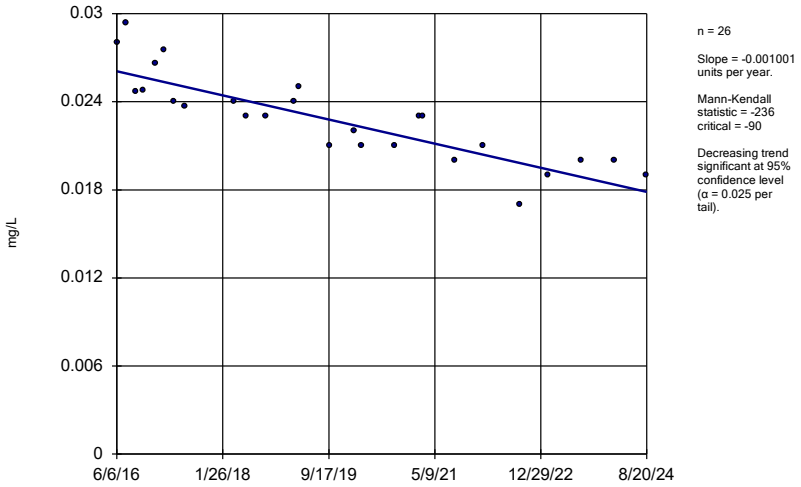
Increasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Barium Analysis Run 11/5/2024 8:01 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 26

Slope = -0.001001
units per year.

Mann-Kendall
statistic = -236
critical = -90

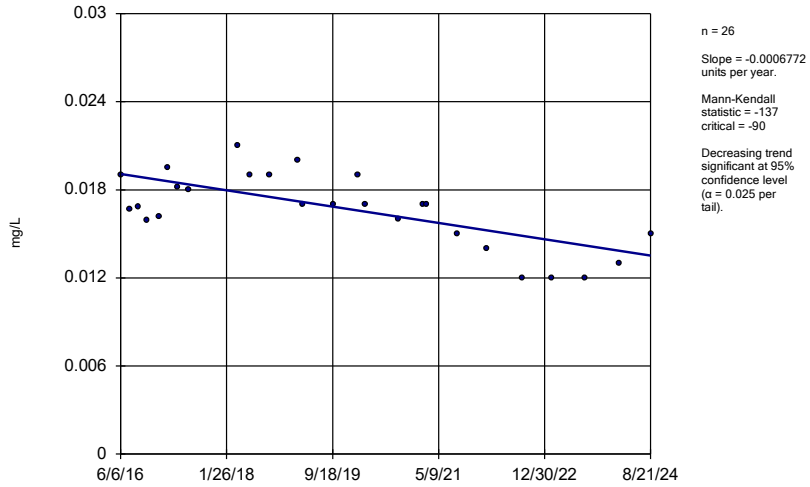
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Barium Analysis Run 11/5/2024 8:01 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 26

Slope = -0.0006772
units per year.

Mann-Kendall
statistic = -137
critical = -90

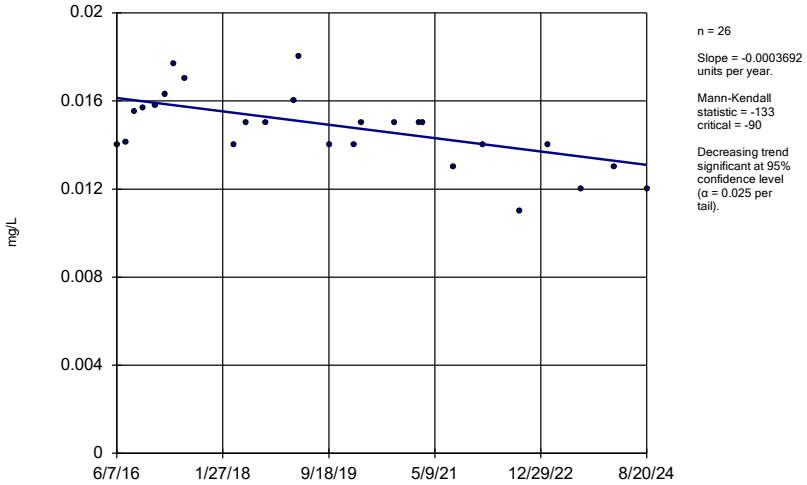
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Barium Analysis Run 11/5/2024 8:01 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 26

Slope = -0.0003692 units per year.

Mann-Kendall statistic = -133 critical = -90

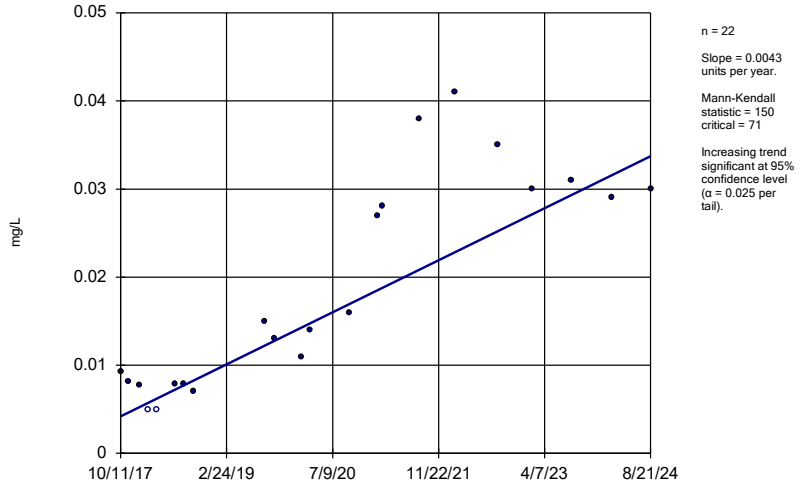
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/5/2024 8:01 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = 0.0043 units per year.

Mann-Kendall statistic = 150 critical = 71

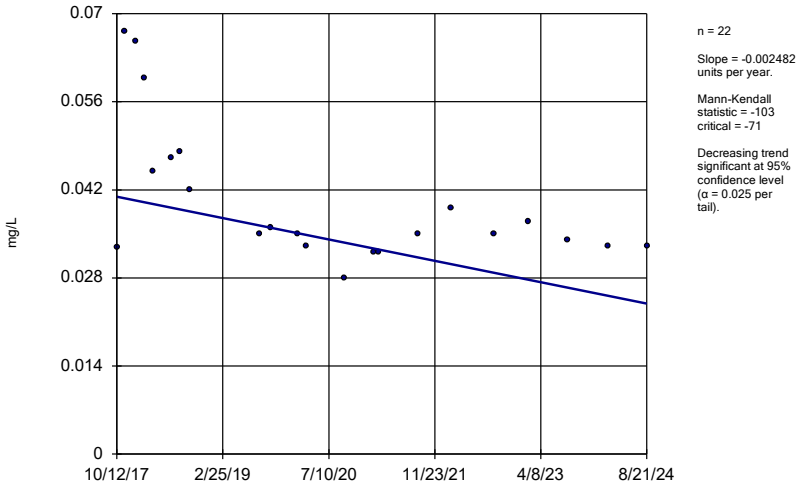
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/5/2024 8:01 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 22

Slope = -0.002482 units per year.

Mann-Kendall statistic = -103 critical = -71

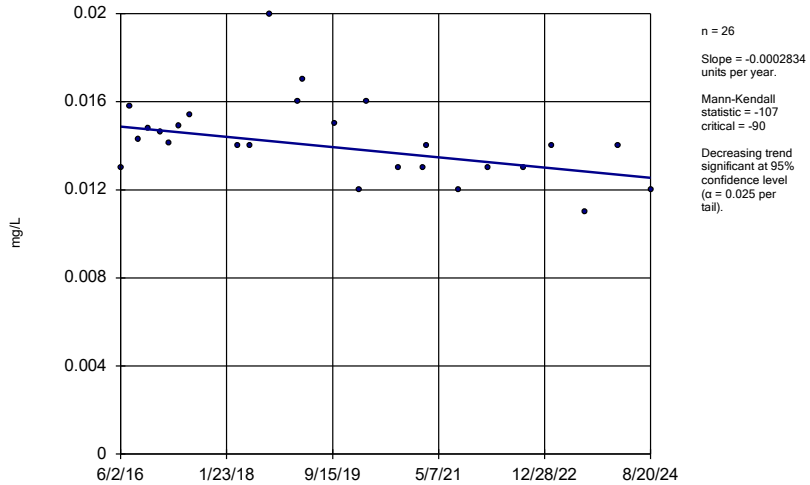
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/5/2024 8:01 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 26

Slope = -0.0002834 units per year.

Mann-Kendall statistic = -107 critical = -90

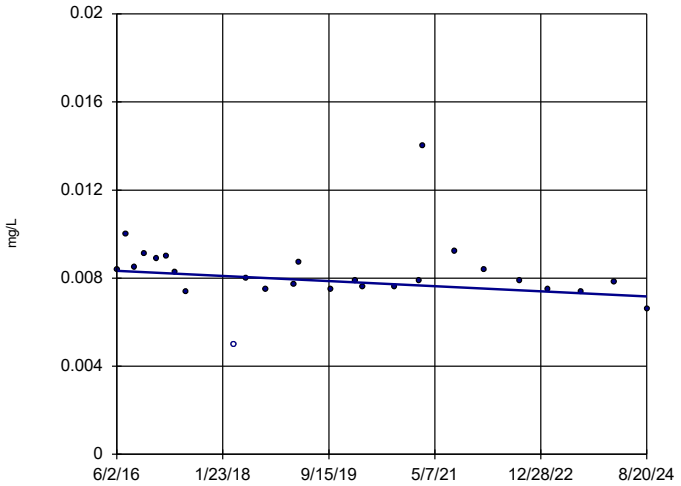
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/5/2024 8:01 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 26

Slope = -0.0001426 units per year.

Mann-Kendall statistic = -92
critical = -90

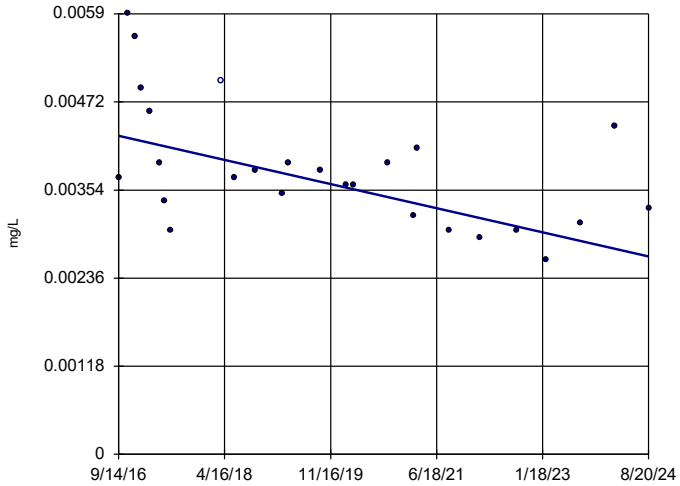
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/5/2024 8:01 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 26

Slope = -0.0002032 units per year.

Mann-Kendall statistic = -134
critical = -90

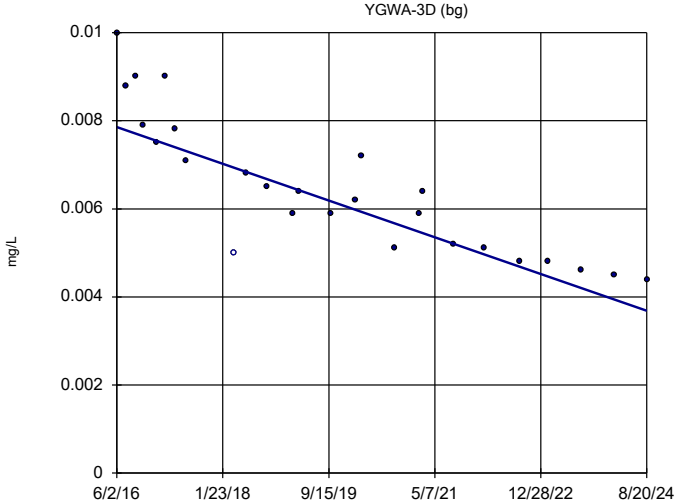
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/5/2024 8:02 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 26

Slope = -0.0005074 units per year.

Mann-Kendall statistic = -250
critical = -90

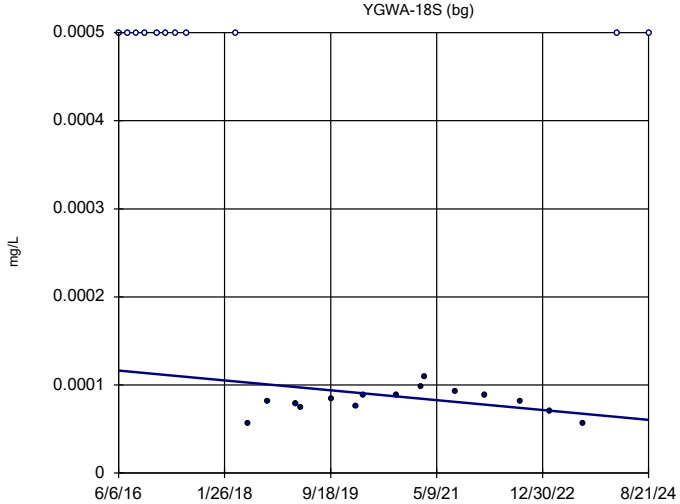
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/5/2024 8:02 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 26

Slope = -0.000006801 units per year.

Mann-Kendall statistic = -91
critical = -90

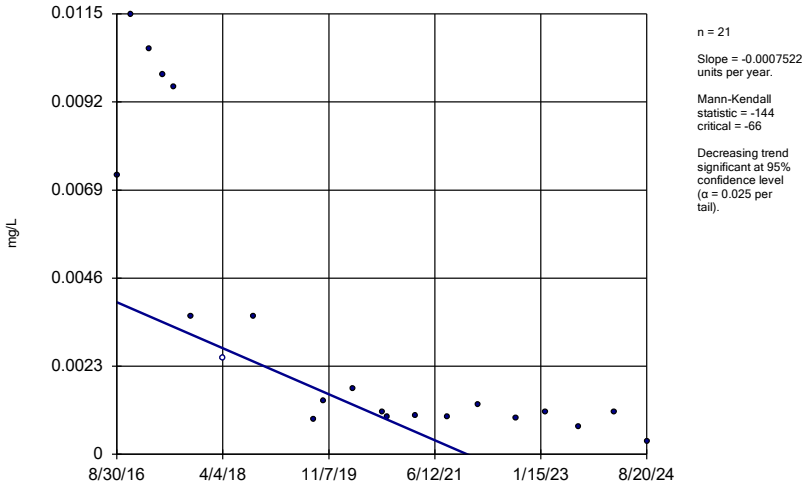
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 11/5/2024 8:02 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.0007522 units per year.

Mann-Kendall statistic = -144
critical = -66

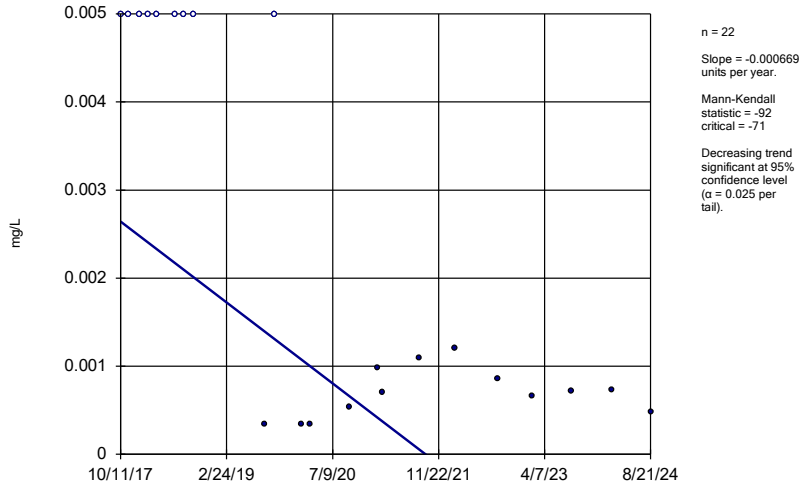
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/5/2024 8:03 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = -0.000669 units per year.

Mann-Kendall statistic = -92
critical = -71

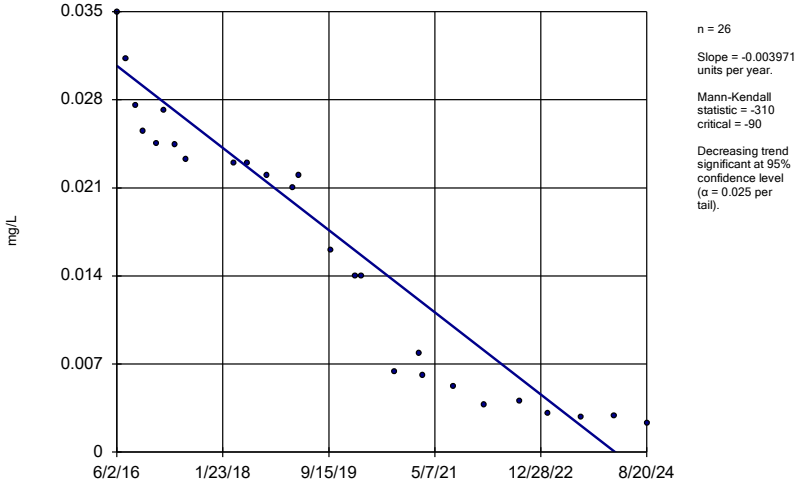
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/5/2024 8:03 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 26

Slope = -0.003971 units per year.

Mann-Kendall statistic = -310
critical = -90

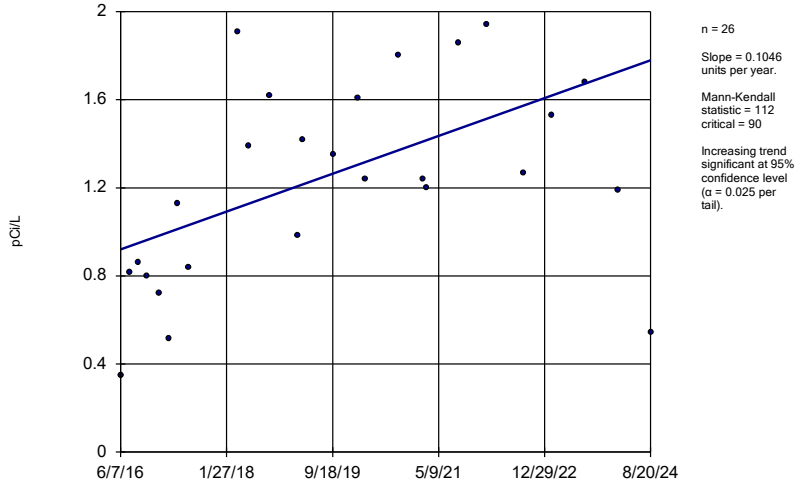
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/5/2024 8:03 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 26

Slope = 0.1046 units per year.

Mann-Kendall statistic = 112
critical = 90

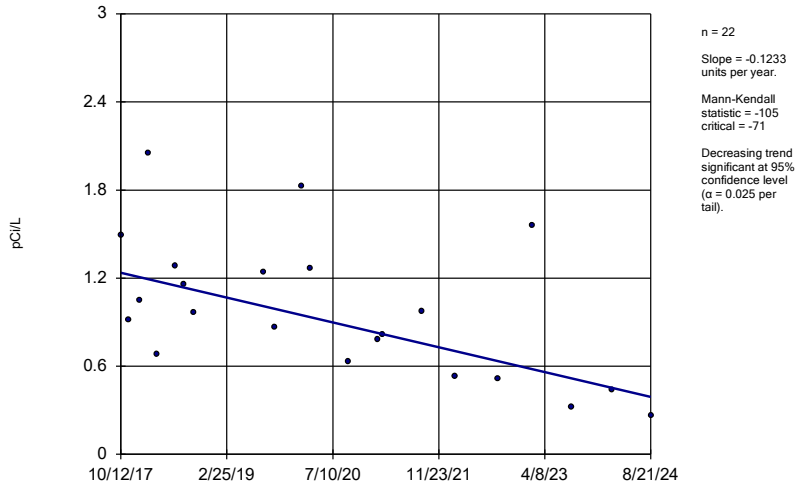
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 11/5/2024 8:03 PM View: Appendix IV - Upgradie
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 22

Slope = -0.1233 units per year.

Mann-Kendall statistic = -105 critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

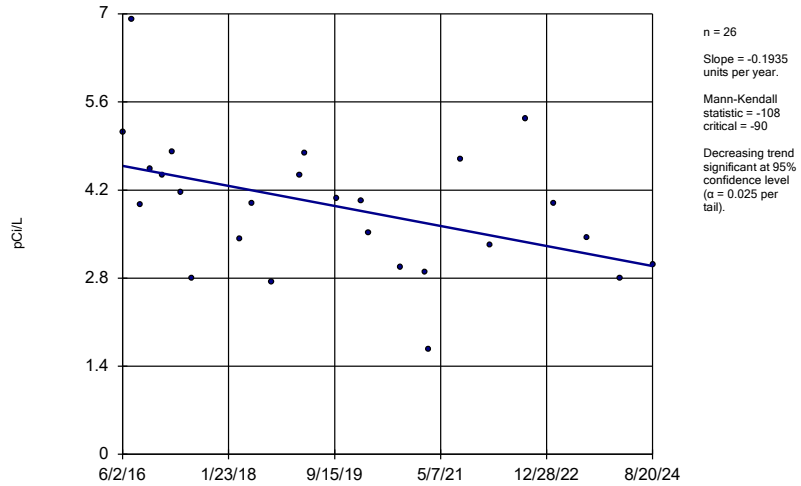
Constituent: Combined Radium 226 + 228 Analysis Run 11/5/2024 8:03 PM View: Appendix IV - Upgradie

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 26

Slope = -0.1935 units per year.

Mann-Kendall statistic = -108 critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

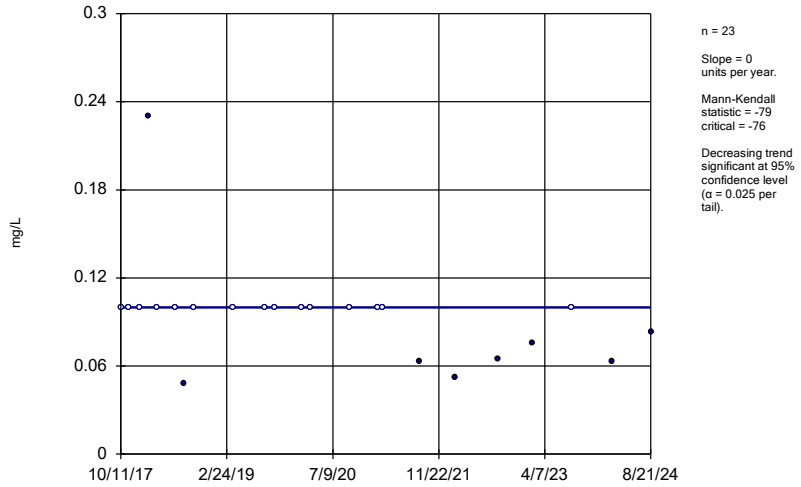
Constituent: Combined Radium 226 + 228 Analysis Run 11/5/2024 8:03 PM View: Appendix IV - Upgradie

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -79 critical = -76

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

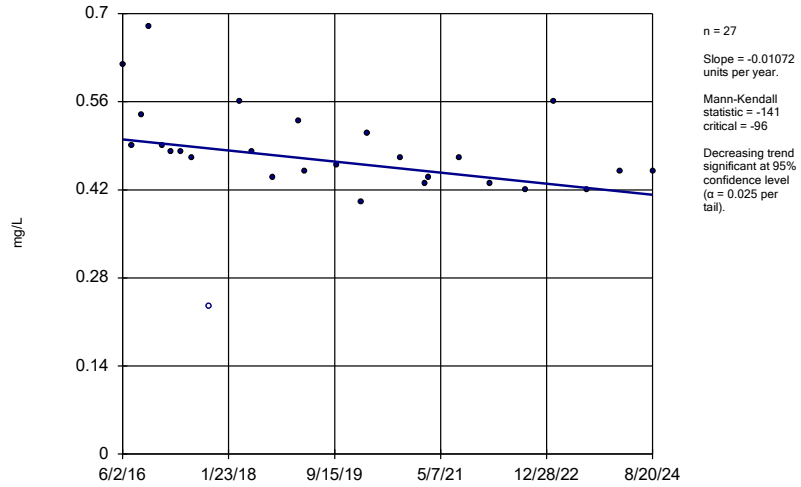
Constituent: Fluoride, total Analysis Run 11/5/2024 8:03 PM View: Appendix IV - Upgradient Wells Screen

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 27

Slope = -0.01072 units per year.

Mann-Kendall statistic = -141 critical = -96

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

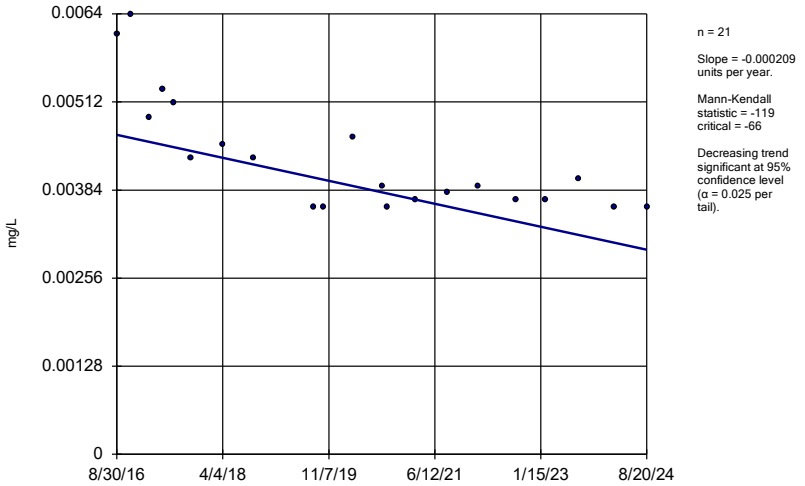
Constituent: Fluoride, total Analysis Run 11/5/2024 8:03 PM View: Appendix IV - Upgradient Wells Screen

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.000209 units per year.

Mann-Kendall statistic = -119 critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/5/2024 8:04 PM View: Appendix IV - Upgradient Wells Screening

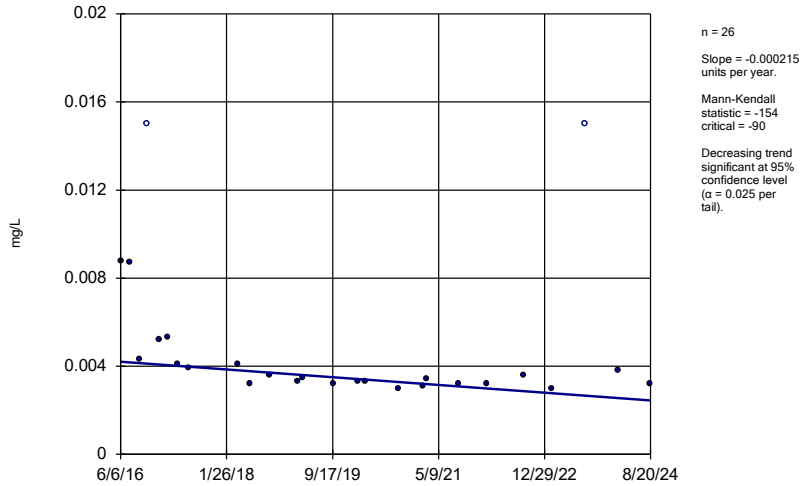
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 26

Slope = -0.000215 units per year.

Mann-Kendall statistic = -154 critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/5/2024 8:04 PM View: Appendix IV - Upgradient Wells Screening

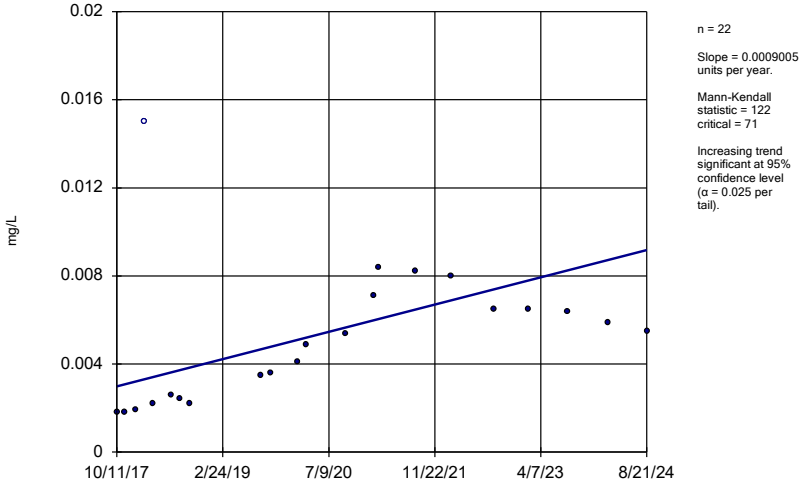
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = 0.0009005 units per year.

Mann-Kendall statistic = 122 critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

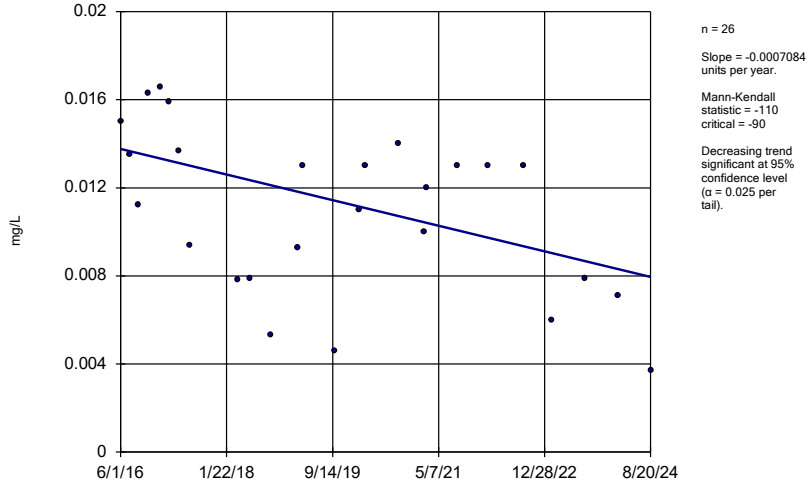
Constituent: Lithium Analysis Run 11/5/2024 8:04 PM View: Appendix IV - Upgradient Wells Screening

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 26

Slope = -0.0007084 units per year.

Mann-Kendall statistic = -110 critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

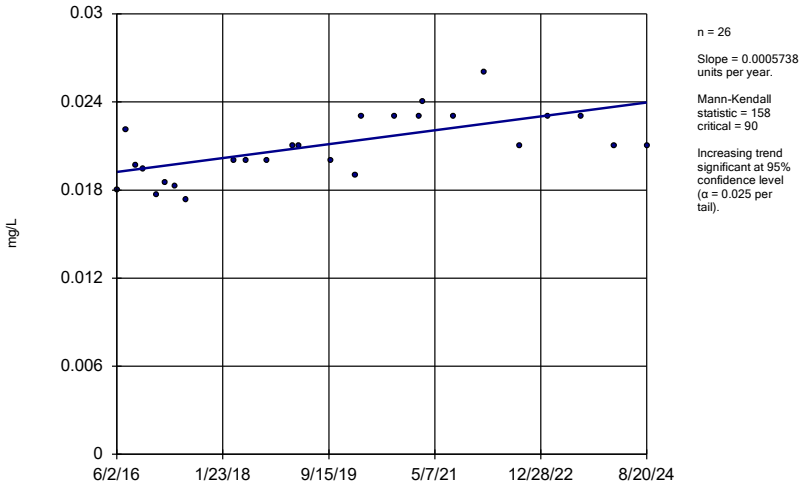
Constituent: Lithium Analysis Run 11/5/2024 8:04 PM View: Appendix IV - Upgradient Wells Screening

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 26

Slope = 0.0005738 units per year.

Mann-Kendall statistic = 158
critical = 90

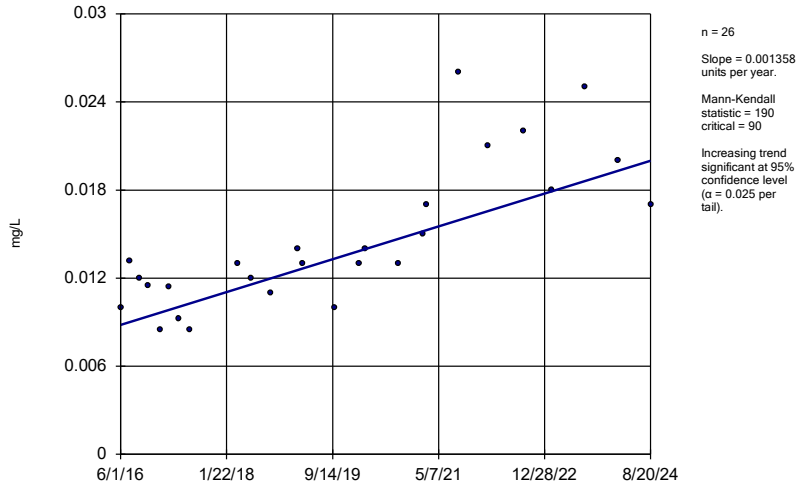
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/5/2024 8:04 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 26

Slope = 0.001358 units per year.

Mann-Kendall statistic = 190
critical = 90

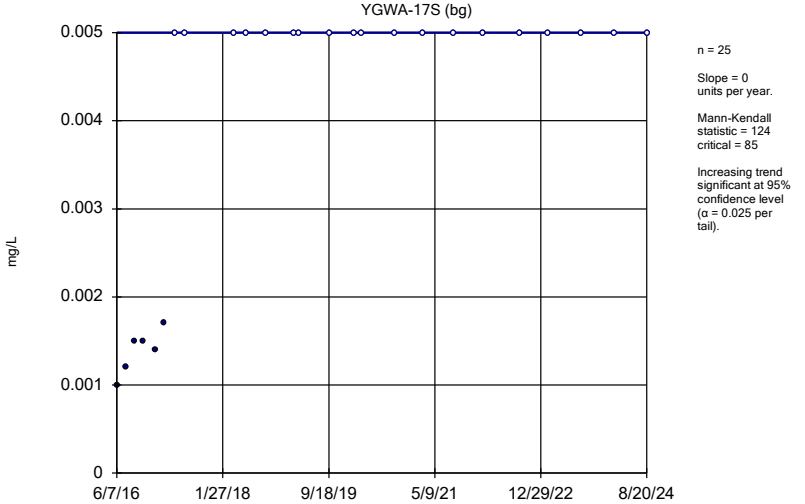
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/5/2024 8:04 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 124
critical = 85

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 11/5/2024 8:04 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond1

FIGURE E.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/5/2024, 8:20 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)	**YGWC-44**	**0.16**	**n/a**	**8/21/2024**	**0.49**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**YGWC-45**	**0.16**	**n/a**	**8/21/2024**	**0.31**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**YGWC-46A**	**0.16**	**n/a**	**8/21/2024**	**2.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Calcium, total (mg/L)	**YGWC-45**	**37**	**n/a**	**8/21/2024**	**58.3**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**YGWC-46A**	**37**	**n/a**	**8/21/2024**	**124**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**YGWC-52**	**37**	**n/a**	**8/22/2024**	**37.6**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**YGWC-44**	**12.7**	**n/a**	**8/21/2024**	**13.3**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**YGWC-46A**	**12.7**	**n/a**	**8/21/2024**	**39.6**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**YGWC-45**	**160**	**n/a**	**8/21/2024**	**166**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**YGWC-46A**	**160**	**n/a**	**8/21/2024**	**518**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**YGWC-44**	**319**	**n/a**	**8/21/2024**	**320**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**YGWC-45**	**319**	**n/a**	**8/21/2024**	**442**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**YGWC-46A**	**319**	**n/a**	**8/21/2024**	**1060**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/5/2024, 8:20 PM

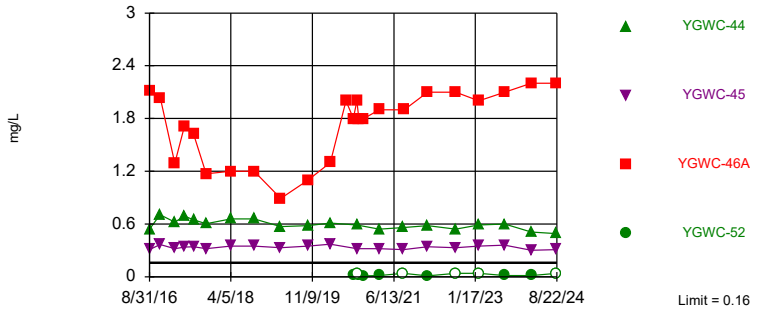
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	**YGWC-44**	**0.16**	**n/a**	**8/21/2024**	**0.49**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**YGWC-45**	**0.16**	**n/a**	**8/21/2024**	**0.31**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**YGWC-46A**	**0.16**	**n/a**	**8/21/2024**	**2.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	YGWC-52	0.16	n/a	8/22/2024	0.04ND	No	425	n/a	n/a	52.71	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	YGWC-44	37	n/a	8/21/2024	32.8	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**YGWC-45**	**37**	**n/a**	**8/21/2024**	**58.3**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**YGWC-46A**	**37**	**n/a**	**8/21/2024**	**124**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**YGWC-52**	**37**	**n/a**	**8/22/2024**	**37.6**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**YGWC-44**	**12.7**	**n/a**	**8/21/2024**	**13.3**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	YGWC-45	12.7	n/a	8/21/2024	6.5	No	425	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**YGWC-46A**	**12.7**	**n/a**	**8/21/2024**	**39.6**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	YGWC-52	12.7	n/a	8/22/2024	3	No	425	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	YGWC-44	0.68	n/a	8/21/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-45	0.68	n/a	8/21/2024	0.077J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-46A	0.68	n/a	8/21/2024	0.1	No	494	n/a	n/a	62.96	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-52	0.68	n/a	8/22/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	YGWC-44	8.39	4.4	8/21/2024	5.8	No	505	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-45	8.39	4.4	8/21/2024	6.54	No	505	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-46A	8.39	4.4	8/21/2024	7.41	No	505	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-52	8.39	4.4	8/22/2024	6.01	No	505	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-44	160	n/a	8/21/2024	121	No	425	n/a	n/a	6.118	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**YGWC-45**	**160**	**n/a**	**8/21/2024**	**166**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**YGWC-46A**	**160**	**n/a**	**8/21/2024**	**518**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	YGWC-52	160	n/a	8/22/2024	87.1	No	425	n/a	n/a	6.118	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**YGWC-44**	**319**	**n/a**	**8/21/2024**	**320**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**YGWC-45**	**319**	**n/a**	**8/21/2024**	**442**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**YGWC-46A**	**319**	**n/a**	**8/21/2024**	**1060**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	YGWC-52	319	n/a	8/22/2024	232	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: YGWC-44, YGWC-45, YGWC-46A

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 425 background values. 52.71% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

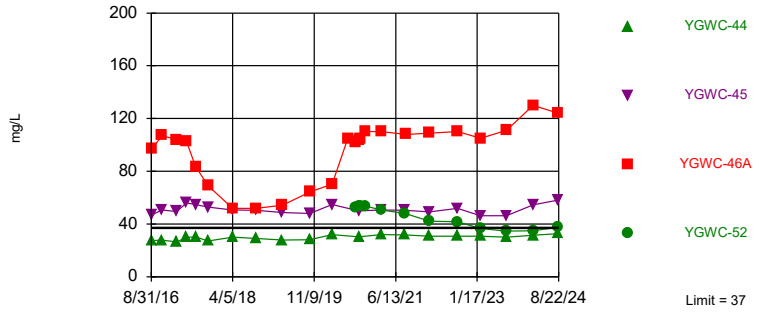
Constituent: Boron, total Analysis Run 11/5/2024 8:17 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-45, YGWC-46A, YGWC-52

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 425 background values. 0.7059% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

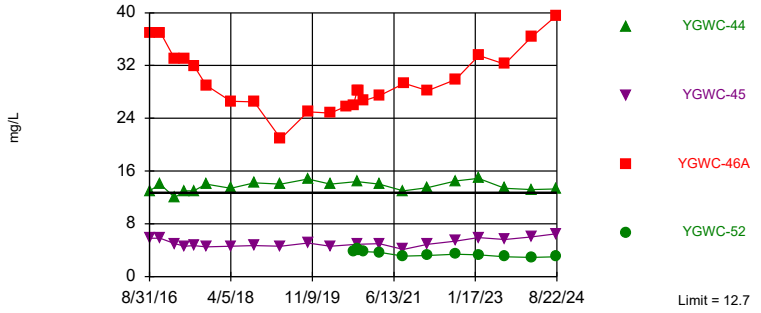
Constituent: Calcium, total Analysis Run 11/5/2024 8:17 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-44, YGWC-46A

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 425 background values. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

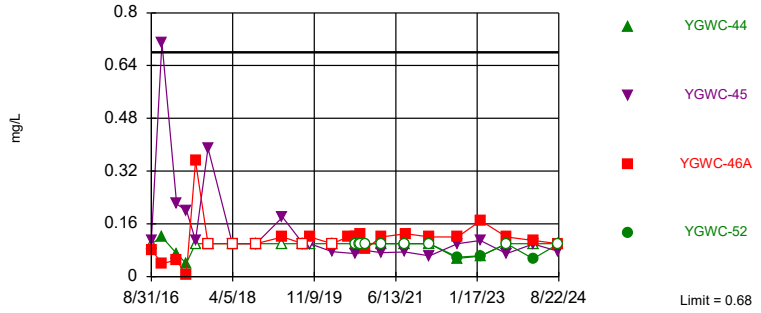
Constituent: Chloride, Total Analysis Run 11/5/2024 8:18 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 494 background values. 62.96% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

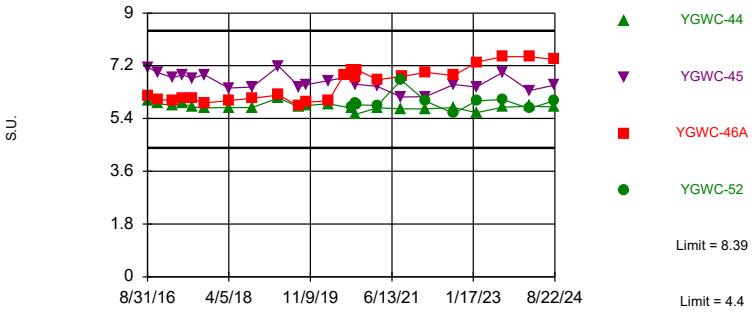
Constituent: Fluoride, total Analysis Run 11/5/2024 8:18 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 505 background values. Annual per-constituent alpha = 0.0007874. Individual comparison alpha = 0.00009844 (1 of 2). Comparing 4 points to limit.

Constituent: pH, Field Analysis Run 11/5/2024 8:18 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

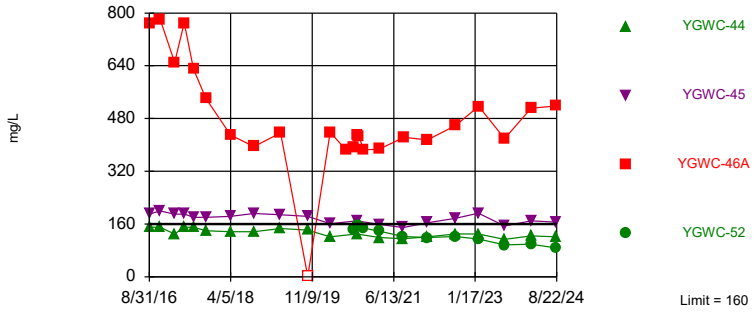
Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-45, YGWC-46A

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 425 background values. 6.118% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Sulfate as SO4 Analysis Run 11/5/2024 8:18 PM View: Appendix III

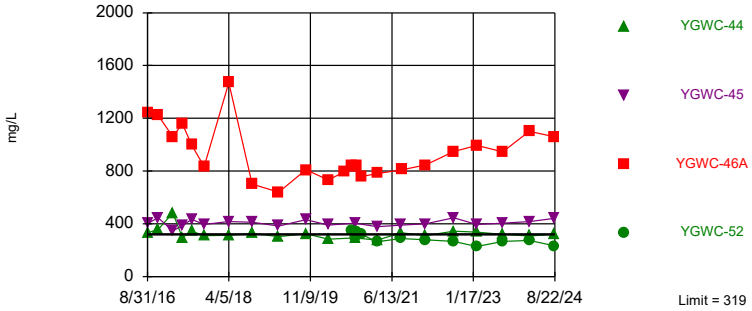
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-44, YGWC-45, YGWC-46A

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 424 background values. 0.4717% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/5/2024 8:18 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
7/25/2016	<0.04	<0.04						<0.04	
7/26/2016			0.0055 (J)	0.0052 (J)	<0.04	0.0047 (J)	0.0177 (J)		0.0097 (J)
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	<0.04		<0.04						
9/14/2016		<0.04		0.0071 (J)	0.01 (J)	<0.04			
9/15/2016							0.0214 (J)		0.0102 (J)
9/16/2016									
9/19/2016								<0.04	
11/1/2016		<0.04	0.0086 (J)					<0.04	<0.04
11/2/2016				<0.04		<0.04	<0.04		
11/3/2016									
11/4/2016	<0.04				<0.04				
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							0.0198 (J)		
1/11/2017		<0.04	0.0074 (J)						<0.04
1/12/2017				0.0076 (J)	<0.04				
1/13/2017						<0.04			
1/16/2017	<0.04							<0.04	
2/21/2017								<0.04	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		<0.04							
3/2/2017	<0.04		0.008 (J)						0.0084 (J)
3/3/2017									
3/6/2017						<0.04			
3/7/2017				0.0089 (J)	<0.04				
3/8/2017							0.0189 (J)		
4/26/2017		<0.04					0.0161 (J)	<0.04	<0.04
4/27/2017	<0.04		0.0066 (J)						
4/28/2017									
5/1/2017				0.0061 (J)		<0.04			
5/2/2017					<0.04				
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	0.006 (J)		0.0087 (J)	0.0079 (J)	<0.04				
6/28/2017		<0.04							<0.04
6/29/2017						<0.04			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/30/2017							0.0173 (J)	<0.04	
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	0.0071 (J)		0.0072 (J)	0.0094 (J)	<0.04				
10/4/2017		<0.04						<0.04	<0.04
10/5/2017						<0.04	0.0173 (J)		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.0052 (J)						
6/6/2018	<0.04			0.0098 (J)					
6/7/2018					<0.04	0.0045 (J)			0.004 (J)
6/8/2018		<0.04					0.013 (J)		
6/11/2018								0.014 (J)	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.01 (J)	0.0057 (J)	0.005 (J)			
10/1/2018	0.0049 (J)	<0.04	0.021 (J)				0.015 (J)		<0.04
10/2/2018								<0.04	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.04		0.005 (J)						
3/29/2019							0.014 (J)		
4/1/2019		<0.04						<0.04	<0.04
4/2/2019									
4/3/2019				0.0076 (J)	0.0044 (J)	0.0055 (J)			
6/12/2019									
9/24/2019	0.0055 (J)		0.0064 (J)	0.01 (J)	0.0049 (J)				
9/25/2019		<0.04				<0.04	0.018 (J)	<0.04	0.0054 (J)
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	0.0087 (J)						0.02 (J)		
3/19/2020		0.0053 (J)	0.0085 (J)					0.0052 (J)	0.0073 (J)
3/24/2020				0.011 (J)	0.0068 (J)				
3/25/2020						0.011 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				0.0079 (J)	0.0053 (J)	<0.04			
9/23/2020	<0.04	0.0073 (J)	<0.04						0.012 (J)
9/24/2020								0.0075 (J)	
9/25/2020							0.02 (J)		
10/7/2020									
11/12/2020									
3/1/2021								<0.04	
3/2/2021				0.0068 (J)	0.011 (J)		0.017 (J)		
3/3/2021	<0.04	<0.04	<0.04			0.0056 (J)			<0.04
3/4/2021									
8/19/2021	<0.04		<0.04				0.018 (J)	<0.04	<0.04
8/20/2021									
8/26/2021				0.009 (J)	<0.04	<0.04			
8/27/2021		<0.04							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04						0.01 (J)
2/10/2022				0.011 (J)	<0.04		0.02 (J)		
2/11/2022						<0.04		<0.04	
8/30/2022			<0.04	0.0098 (J)	<0.04				
8/31/2022	<0.04	<0.04				<0.04	0.015 (J)	<0.04	<0.04
2/7/2023	<0.04		<0.04	<0.04					
2/8/2023		<0.04					0.015 (J)	<0.04	<0.04
2/9/2023					<0.04	<0.04			
2/10/2023									
8/15/2023	0.0094 (J)		<0.04	<0.04	<0.04	<0.04	0.017 (J)		<0.04
8/16/2023		<0.04						<0.04	
2/20/2024	0.014 (J)	<0.04	0.015 (J)	<0.04	<0.04	<0.04		<0.04	<0.04
2/21/2024									
2/23/2024							0.037 (J)		
8/20/2024	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.014 (J)	<0.04	<0.04
8/21/2024									
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)		0.008 (J)	<0.04				
7/28/2016			<0.04						
8/30/2016						0.0166 (J)			
8/31/2016							0.0315 (J)	0.541	0.308
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		0.0079 (J)		0.0086 (J)					
9/19/2016	<0.04		<0.04		<0.04				
11/1/2016									
11/2/2016					<0.04				
11/3/2016	<0.04	0.0082 (J)	<0.04	0.0077 (J)					
11/4/2016									
11/14/2016						0.0166 (J)			0.368
11/15/2016								0.706	
11/16/2016									
11/28/2016							0.0095 (J)		
12/15/2016									
1/10/2017									
1/11/2017	<0.04	0.0096 (J)		0.0092 (J)					
1/12/2017									
1/13/2017			<0.04		<0.04				
1/16/2017									
2/21/2017									
2/22/2017							<0.04		
2/24/2017						0.0145 (J)			
2/27/2017									0.321
2/28/2017								0.623	
3/1/2017	<0.04	<0.04							
3/2/2017				0.0095 (J)					
3/3/2017									
3/6/2017			<0.04		<0.04				
3/7/2017									
3/8/2017									
4/26/2017	<0.04	0.0091 (J)	<0.04		<0.04				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				<0.04					
5/8/2017						0.0141 (J)	0.0084 (J)	0.69	
5/9/2017									0.338
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							
6/29/2017			<0.04	0.0074 (J)	<0.04				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
6/30/2017									
7/11/2017						0.0131 (J)			
7/13/2017								0.649	0.34
7/17/2017							0.0092 (J)		
10/3/2017			<0.04						
10/4/2017		0.009 (J)		0.0077 (J)	<0.04				
10/5/2017	<0.04								
10/10/2017						0.0124 (J)		0.603	0.319
10/11/2017									
10/12/2017									
10/16/2017							<0.04		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018							<0.04		
2/20/2018									
4/2/2018						0.013 (J)			
4/3/2018									0.35
4/4/2018								0.66	
6/5/2018			0.0092 (J)						
6/6/2018					0.0049 (J)				
6/7/2018	<0.04								
6/8/2018									
6/11/2018		0.0093 (J)		0.01 (J)					
6/28/2018									
8/6/2018							<0.04		
8/7/2018									
9/19/2018						0.012 (J)		0.66	0.35
9/24/2018									
9/25/2018	0.0046 (J)	0.007 (J)	0.0054 (J)	0.0096 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019							<0.04		
3/26/2019									
3/27/2019						0.013 (J)		0.57	0.33
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.011 (J)	0.0066 (J)					
4/3/2019	<0.04	0.0053 (J)			<0.04				
6/12/2019							<0.04		
9/24/2019			0.018 (J)						
9/25/2019				0.0081 (J)	<0.04				
9/26/2019	0.0062 (J)	0.0072 (J)							
10/8/2019						0.012 (J)	<0.04	0.58	
10/9/2019									0.35
3/17/2020						0.023 (J)	0.0051 (J)	0.61	0.37
3/18/2020									
3/19/2020									
3/24/2020	0.0054 (J)	0.01 (J)	0.016 (J)	0.0092 (J)	<0.04				
3/25/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						0.0076 (J)	0.0079 (J)	0.59	
9/23/2020	0.021 (J)	0.006 (J)		0.0066 (J)					0.32
9/24/2020			0.013 (J)		0.0094 (J)				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						0.013 (J)		0.54	0.32
3/2/2021							<0.04		
3/3/2021	<0.04	0.0094 (J)		0.01 (J)	<0.04				
3/4/2021			0.0079 (J)						
8/19/2021						0.011 (J)		0.56	0.31
8/20/2021							<0.04		
8/26/2021		<0.04							
8/27/2021	<0.04			0.011 (J)	<0.04				
9/1/2021			<0.04						
9/3/2021									
2/8/2022						0.015 (J)	<0.04		
2/9/2022	<0.04	<0.04	<0.04	0.0098 (J)	<0.04			0.58	0.34
2/10/2022									
2/11/2022									
8/30/2022	<0.04	0.014 (J)	0.012 (J)	0.013 (J)			<0.04		
8/31/2022					<0.04	0.0091 (J)		0.54	0.33
2/7/2023	<0.04	<0.04	<0.04	0.014 (J)	<0.04		<0.04		
2/8/2023						0.011 (J)		0.59	
2/9/2023									0.35
2/10/2023									
8/15/2023	<0.04	<0.04	0.046 (J)	<0.04	<0.04	<0.04	<0.04	0.6	0.36
8/16/2023									
2/20/2024	<0.04		<0.04	<0.04	<0.04	0.023 (J)	0.017 (J)		
2/21/2024								0.51	0.3
2/23/2024		0.018 (J)							
8/20/2024	<0.04		<0.04	<0.04	<0.04	<0.04			
8/21/2024		<0.04						0.49	0.31
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	2.12				
9/13/2016					
9/14/2016		<0.04			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		<0.04			
11/14/2016					
11/15/2016					
11/16/2016	2.03				
11/28/2016					
12/15/2016		0.0107 (J)			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		<0.04			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	1.29				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		<0.04			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		<0.04			
5/1/2017					
5/2/2017					
5/8/2017	1.71				
5/9/2017					
5/26/2017		<0.04			
6/27/2017					
6/28/2017		<0.04			
6/29/2017					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	1.62				
7/17/2017					
10/3/2017		<0.04			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	1.17		0.0135 (J)		
10/12/2017				0.0401	
10/16/2017					
11/20/2017			0.0251 (J)	0.156	
1/10/2018				0.15	
1/11/2018			0.0255 (J)		
2/19/2018				0.146	
2/20/2018			<0.04		
4/2/2018					
4/3/2018			0.033 (J)	0.12	
4/4/2018	1.2				
6/5/2018					
6/6/2018					
6/7/2018		<0.04			
6/8/2018					
6/11/2018					
6/28/2018			0.053	0.16	
8/6/2018					
8/7/2018			0.024 (J)	0.12	
9/19/2018	1.2				
9/24/2018			0.028 (J)	0.099	
9/25/2018					
9/26/2018					
10/1/2018		<0.04			
10/2/2018					
2/25/2019					
3/26/2019				0.096	
3/27/2019	0.89		0.017 (J)		
3/28/2019					
3/29/2019		0.0065 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		0.0076 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	1.1		0.017 (J)	0.079	
3/17/2020	1.3				
3/18/2020					
3/19/2020		0.0073 (J)			
3/24/2020				0.088 (J)	
3/25/2020			0.043 (J)		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	2				
8/27/2020					0.014 (J)
8/28/2020	1.8				
9/22/2020					<0.04
9/23/2020	2	<0.04			
9/24/2020			0.037 (J)	0.087 (J)	
9/25/2020					
10/7/2020	1.8				0.018 (J)
11/12/2020	1.8				0.012 (J)
3/1/2021					0.015 (J)
3/2/2021	1.9				
3/3/2021		<0.04			
3/4/2021			0.033 (J)	0.078	
8/19/2021					
8/20/2021					<0.04
8/26/2021			0.095		
8/27/2021	1.9	<0.04			
9/1/2021					
9/3/2021				0.077	
2/8/2022			0.13	0.074	
2/9/2022	2.1	<0.04			0.0089 (J)
2/10/2022					
2/11/2022					
8/30/2022		<0.04			
8/31/2022	2.1		0.14	0.062	<0.04
2/7/2023		<0.04	0.13		
2/8/2023				0.057	
2/9/2023					
2/10/2023	2				<0.04
8/15/2023	2.1	<0.04	0.15 (J)	0.052 (J)	0.014 (J)
8/16/2023					
2/20/2024		<0.04	0.12	0.056	
2/21/2024	2.2				0.015 (J)
2/23/2024					
8/20/2024		<0.04			
8/21/2024	2.2		0.13	0.061	
8/22/2024					<0.04

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	2.5	21	12						
6/2/2016				33	2.4	8.8	1.3	1.3	28
6/6/2016									
6/7/2016									
7/25/2016	2.16	20.3						1.17	
7/26/2016			11	32.3	2.12	7.69	1.24		24.5
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	2.21		11.8						
9/14/2016		19.7		31	2.18	8.49			
9/15/2016							1.17		27
9/16/2016									
9/19/2016								1.05	
11/1/2016		18.4	11					1.14	25.6
11/2/2016				30.9		7.83	1.23		
11/3/2016									
11/4/2016	2.67				2.17 (J)				
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							1.24		
1/11/2017		20.3	11.2						27.5
1/12/2017				35.7	2.37				
1/13/2017						8.08			
1/16/2017	2.45							1.23	
2/21/2017								1.25	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		18.6							
3/2/2017	2.57		11						27.5
3/3/2017									
3/6/2017						8.64			
3/7/2017				32.7	2.34				
3/8/2017							1.21		
4/26/2017		25.6					1.14	1.03	30.4
4/27/2017	2.38		11.1						
4/28/2017									
5/1/2017				37		13.4			
5/2/2017					2.17				
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	2.36		13.8	36.5	2.13				
6/28/2017		23.9							29.8
6/29/2017						8.81			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/30/2017							1.24	1.13	
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	2.21		14	30.9	2.15				
10/4/2017		22.1						1.09	29.7
10/5/2017						9.29	1.11		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			15.2 (J)						
6/6/2018	2.3			26.2					
6/7/2018					2.3	8.2			29.1
6/8/2018		21.9 (J)					1.1		
6/11/2018								1.1	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				25.8	2.3	9.5 (J)			
10/1/2018	1.8	19.7	15.1				0.99		26.9
10/2/2018								1.1	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	2.2		13.3 (J)						
3/29/2019							1.1		
4/1/2019		20.4 (J)						1.3	30.1
4/2/2019									
4/3/2019				24.7 (J)	2.8	8.4			
6/12/2019									
9/24/2019	2.3		15.8	25.8	2.5				
9/25/2019		22.4				9.5	1.1	1.1	29.5
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	2.1						1.1		
3/19/2020		21.9	15					1.2	31.5
3/24/2020				26.1	2.5				
3/25/2020						10.5			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				27.2	2.6	9.6			
9/23/2020	1.8	23.6	14.1						28.6
9/24/2020								1.1	
9/25/2020							1.3		
10/7/2020									
11/12/2020									
3/1/2021								1.2	
3/2/2021				1.6	2.6		1.2		
3/3/2021	1.8	20.6	14.1			7.7			29.8
3/4/2021									
8/19/2021	2		14.2				1.2	1.2	28.1
8/20/2021									
8/26/2021				25.2	2.5	7.6			
8/27/2021		24.7							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	2.1	23.7	14.9						30.3
2/10/2022				24.8	2.5		1.3		
2/11/2022						7.5		1.5	
8/30/2022			14.9	24.8	2.5				
8/31/2022	1.9	23.5				8.9	1.3	1.3	28.7
2/7/2023	2.2		15	26.6					
2/8/2023		23.3					1.5	1.3	28.9
2/9/2023					2.8	9.6			
2/10/2023									
8/15/2023	1.8		13.5	25	2.6	7.8	1.3		27.4
8/16/2023		24.9						1.4	
2/20/2024	2.2	23.7	15.3	27.2	2.7	9.9		1.3	30.7
2/21/2024									
2/23/2024							1.6		
8/20/2024	1.9	23.4	17.7	29.1	3.2	9.1	1.3	1.4	30
8/21/2024									
8/22/2024									

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			3.7	2.2	2.3				
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19		2	2.08				
7/28/2016			3.15						
8/30/2016						20.9			
8/31/2016							9.31	27.3	46.7
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.5		1.97					
9/19/2016	4.76		3.17		1.97				
11/1/2016									
11/2/2016					2.13				
11/3/2016	5.25	1.31	3.4	1.99					
11/4/2016									
11/14/2016						18.6			50.6
11/15/2016								27.8	
11/16/2016									
11/28/2016							9.47 (B)		
12/15/2016									
1/10/2017									
1/11/2017	4.74	1.25		2.28					
1/12/2017									
1/13/2017			4.98		2.45				
1/16/2017									
2/21/2017									
2/22/2017							10.4		
2/24/2017						16.1			
2/27/2017									49.4
2/28/2017								26.4	
3/1/2017	5.37	1.26							
3/2/2017				2.15					
3/3/2017									
3/6/2017			6.28		2.48				
3/7/2017									
3/8/2017									
4/26/2017	4.28	1.05	6.65		2.3				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				1.95					
5/8/2017						14.6	14.2	29.9	
5/9/2017									56
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							
6/29/2017			6.04	2.02	2.54				

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
6/30/2017									
7/11/2017						14.3			
7/13/2017								30.2	54.8
7/17/2017							14.1		
10/3/2017			8.28						
10/4/2017		1.1		2.03	2.25				
10/5/2017	5.28								
10/10/2017						12.1		27.2	52.8
10/11/2017									
10/12/2017									
10/16/2017							13.6		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018							<25		
2/20/2018									
4/2/2018						<25			
4/3/2018									50.6
4/4/2018								30.1	
6/5/2018			9.1						
6/6/2018					2.3				
6/7/2018	4.8								
6/8/2018									
6/11/2018		1.4		2.1					
6/28/2018									
8/6/2018							11.4 (J)		
8/7/2018									
9/19/2018						11.1 (J)		29.2	50.5
9/24/2018									
9/25/2018	4.6	1	10.4 (J)	2.1	2.3				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019							12.7 (J)		
3/26/2019									
3/27/2019						10.8 (J)		27.9	48.8
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			8.8	2.5					
4/3/2019	5.3	1.2			2.9				
6/12/2019							18.9		
9/24/2019			7.7						
9/25/2019				2.6	2.4				
9/26/2019	4.9	1.1							
10/8/2019						9.7	28.3	28.1	
10/9/2019									47.9
3/17/2020						14.8	24.3	31.9	54.8
3/18/2020									
3/19/2020									
3/24/2020	5.3	1	6	2.7	2.6				
3/25/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						10.1	31	30.4	
9/23/2020	5.2	0.91 (J)		2.6					50
9/24/2020			7.8		2.6				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						10.3		31.9	50.7
3/2/2021							34.2		
3/3/2021	5.2	0.96 (J)		2.5	2.4				
3/4/2021			8.7						
8/19/2021						9.6		31.7	50.4
8/20/2021							26.5		
8/26/2021		0.98 (J)							
8/27/2021	5.1			2.7	2.4				
9/1/2021			9.5						
9/3/2021									
2/8/2022						9.4	25.6		
2/9/2022	5.1	0.87 (J)	9.8	2.8	2.3			30.8	49.3
2/10/2022									
2/11/2022									
8/30/2022	5.7	0.77 (J)	7.3	3			23.5		
8/31/2022					2.4	9.6		30.8	51.8
2/7/2023	5.5	0.79 (J)	7.5	2.9	2.4		22.3		
2/8/2023						9.2		30.9	
2/9/2023									46.2
2/10/2023									
8/15/2023	5.1	0.8 (J)	6.1	2.9	2.2	9.6	20.3	30	46.3
8/16/2023									
2/20/2024	5.6		7	3.2	2.5	10.3	22.8		
2/21/2024								31.6	54.5
2/23/2024		0.84 (J)							
8/20/2024	5.9		6.9	3.5	2.8	10			
8/21/2024		0.96 (J)						32.8	58.3
8/22/2024									

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	96.8				
9/13/2016					
9/14/2016		23.5			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		23.7			
11/14/2016					
11/15/2016					
11/16/2016	107				
11/28/2016					
12/15/2016		23.1			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		23.3			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	104				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		25.1			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		30.7			
5/1/2017					
5/2/2017					
5/8/2017	103				
5/9/2017					
5/26/2017		26.2			
6/27/2017					
6/28/2017		26.1			
6/29/2017					

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	83.7				
7/17/2017					
10/3/2017		26.7			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	69		2.74		
10/12/2017				2.9	
10/16/2017					
11/20/2017			1.81	10.4	
1/10/2018				10.2	
1/11/2018			1.54		
2/19/2018				<25	
2/20/2018			1.71		
4/2/2018					
4/3/2018			1.4	6.3	
4/4/2018	51.9				
6/5/2018					
6/6/2018					
6/7/2018		25			
6/8/2018					
6/11/2018					
6/28/2018			1.4	6.7	
8/6/2018					
8/7/2018			1.2	6.3	
9/19/2018	51.9				
9/24/2018			1.1	5.7	
9/25/2018					
9/26/2018					
10/1/2018		25			
10/2/2018					
2/25/2019					
3/26/2019				5.6	
3/27/2019	54.2		1.5		
3/28/2019					
3/29/2019		23.5 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		26.4			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	64.2		2.4	4.9	
3/17/2020	70.4				
3/18/2020					
3/19/2020		27.4			
3/24/2020				4.8	
3/25/2020			2.7		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	105				
8/27/2020					52.3
8/28/2020	102				
9/22/2020					53.5
9/23/2020	104	26.3			
9/24/2020			3.7	4.4	
9/25/2020					
10/7/2020	105				53.8
11/12/2020	110				53.6
3/1/2021					50.6
3/2/2021	110				
3/3/2021		25.6			
3/4/2021			8.2	4.6	
8/19/2021					
8/20/2021					47.9
8/26/2021			14.1		
8/27/2021	108	22.6			
9/1/2021					
9/3/2021				5.6	
2/8/2022			15.2	6	
2/9/2022	109	23.4			42.2
2/10/2022					
2/11/2022					
8/30/2022		25.4			
8/31/2022	110		16.3	6.2	41.8
2/7/2023		25.6	16.1		
2/8/2023				5.9	
2/9/2023					
2/10/2023	105				36.7
8/15/2023	111	23.2	17.2	5.3	34.6
8/16/2023					
2/20/2024		28.2	16.9	5.6	
2/21/2024	130				35
2/23/2024					
8/20/2024		30.4			
8/21/2024	124		19.7	6	
8/22/2024					37.6

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	1.6	1.3	1.3						
6/2/2016				7.2	4.3	3.7	4.1	1.9	1.4
6/6/2016									
6/7/2016									
7/25/2016	1.4	1.3						1.7	
7/26/2016			1.2	6.6	4.4	3.6	4		1.6
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	1.3		1.1						
9/14/2016		1.3		6.6	3.8	3.4			
9/15/2016							4.2		1.5
9/16/2016									
9/19/2016								1.6	
11/1/2016		1.4	1.3					1.8	1.7
11/2/2016				7.6		4.5	4.9		
11/3/2016									
11/4/2016	1.6				4.8				
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							4.1		
1/11/2017		1.1	1.1						1.2
1/12/2017				6.8	3.8				
1/13/2017						4.2			
1/16/2017	1.4							1.7	
2/21/2017								1.7	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		1.1							
3/2/2017	1.3		1						1.2
3/3/2017									
3/6/2017						3.6			
3/7/2017				6.8	4.5				
3/8/2017							4.2		
4/26/2017		1.1					4.1	1.7	1.2
4/27/2017	1.3		1						
4/28/2017									
5/1/2017				7.2		4.3			
5/2/2017					4.6				
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	1.4		1.1	7	4.3				
6/28/2017		1.2							1.3
6/29/2017						4.2			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/30/2017							3.7	1.8	
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	1.7		1.1	6.5	4.2				
10/4/2017		1.2						1.8	1.5
10/5/2017						4.7	3.8		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			1.1						
6/6/2018	1.4			4.7					
6/7/2018					4.5	4.4			1.2
6/8/2018		1.2					3.4		
6/11/2018								2	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				4.8	5.1	4.8			
10/1/2018	1.4	1.2	1.1				3.8		1.5
10/2/2018								1.8	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	1.5		1.4						
3/29/2019							4.2		
4/1/2019		1.1						1.7	1.2
4/2/2019									
4/3/2019				4	4.2	4.3			
6/12/2019									
9/24/2019	1.3		1.1	3.7	4.5				
9/25/2019		1.1				4.5	4.8	1.6	1.1
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	1.4						5.2		
3/19/2020		1.1	1.1					1.8	1.2
3/24/2020				3.5	4.3				
3/25/2020						3.9			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				3.6	4.2	4.5			
9/23/2020	1.2	1	0.99 (J)						1.1
9/24/2020								1.5	
9/25/2020							5.3		
10/7/2020									
11/12/2020									
3/1/2021								1.6	
3/2/2021				3.2	4.3		4.9		
3/3/2021	1.2	0.99 (J)	0.96 (J)			4.1			1.1
3/4/2021									
8/19/2021	1.3		1.1				5	1.6	1.1
8/20/2021									
8/26/2021				3.4	4.3	4.4			
8/27/2021		1.1							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1.3	1.1	1						1.1
2/10/2022				3.2	4.4		4.7		
2/11/2022						4.1		2.1	
8/30/2022			1.3	3.5	4.4				
8/31/2022	1.5	1.3				4.4	4.6	1.8	1.3
2/7/2023	1.5		1.3	3.3					
2/8/2023		1.1					4.9	1.6	1.2
2/9/2023					5	4.5			
2/10/2023									
8/15/2023	1.4		1.1	3.1	4.1	4.4	4.1		1.1
8/16/2023		1.1						1.5	
2/20/2024	1.2	1.1	1	3.2	4.8	4.6		1.4	1.1
2/21/2024									
2/23/2024							4.8		
8/20/2024	1.3	1	1	3.4	4.8	5.2	4.5	1.4	1.1
8/21/2024									
8/22/2024									

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			2.8	4.5	1.9				
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2		4.5	1.9				
7/28/2016			2.6						
8/30/2016						5.2			
8/31/2016							4	13	5.8
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1		4.5					
9/19/2016	7		2.4		1.9				
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.5	7.4	2.9	5.4					
11/4/2016									
11/14/2016						6.4			5.8
11/15/2016								14	
11/16/2016									
11/28/2016							4.2		
12/15/2016									
1/10/2017									
1/11/2017	6.5	6.1		4.7					
1/12/2017									
1/13/2017			2.5		2.3				
1/16/2017									
2/21/2017									
2/22/2017							3.7		
2/24/2017						5.5			
2/27/2017									5
2/28/2017								12	
3/1/2017	6.9	6							
3/2/2017				4.8					
3/3/2017									
3/6/2017			2.1		1.9				
3/7/2017									
3/8/2017									
4/26/2017	7	6.5	2.1		2				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				4.6					
5/8/2017						5.8	4.2	13	
5/9/2017									4.6
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							
6/29/2017			2.8	4.5	2.6				

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
6/30/2017									
7/11/2017						5.8			
7/13/2017								13	4.7
7/17/2017							3.8		
10/3/2017			2.2						
10/4/2017		6.8		4.7	2.6				
10/5/2017	7								
10/10/2017						5.9		14	4.5
10/11/2017									
10/12/2017									
10/16/2017							4.2		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018							4.3		
2/20/2018									
4/2/2018						4.8			
4/3/2018									4.6
4/4/2018								13.4	
6/5/2018			1.7						
6/6/2018					2.7				
6/7/2018	6.8								
6/8/2018									
6/11/2018		6.8		4.9					
6/28/2018									
8/6/2018							3.8		
8/7/2018									
9/19/2018						4		14.2	4.7
9/24/2018									
9/25/2018	7.9	7.8	2.2	5.6	3.6				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019							4.1		
3/26/2019									
3/27/2019						4.3		14	4.6
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			2.5	4.8					
4/3/2019	6.9	6.3			3.1				
6/12/2019							4.7		
9/24/2019			3.1						
9/25/2019				5.7	2.8				
9/26/2019	7	7.1							
10/8/2019						4.4	5.1	14.8	
10/9/2019									5.1
3/17/2020						4.1	4.8	14	4.6
3/18/2020									
3/19/2020									
3/24/2020	7	6.8	2.8	5	2.7				
3/25/2020									

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						4.2	4.2	14.4	
9/23/2020	7.2	7.2		6.6					4.9
9/24/2020			2		2.7				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						3.7		14	5
3/2/2021							4.1		
3/3/2021	7	7.2		7.1	2.7				
3/4/2021			1.8						
8/19/2021						3.5		13	4.1
8/20/2021							5.2		
8/26/2021		7.3							
8/27/2021	7.4			8.5	2.8				
9/1/2021			1.8						
9/3/2021									
2/8/2022						3.2	5.7		
2/9/2022	7.5	7	1.7	10.9	2.8			13.5	4.9
2/10/2022									
2/11/2022									
8/30/2022	7.9	7	2.4	12			6.3		
8/31/2022					2.9	3.5		14.5	5.4
2/7/2023	7.4	6.4	2.4	11.4	2.9		6.1		
2/8/2023						3.5		14.9	
2/9/2023									5.9
2/10/2023									
8/15/2023	7.3	6.7	2.3	11.6	2.8	3.5	5.6	13.4	5.6
8/16/2023									
2/20/2024	7.6		2.3	12.2	2.9	3.2	6.1		
2/21/2024								13.2	6
2/23/2024		6.6							
8/20/2024	7.8		2.3	12.7	3	3.6			
8/21/2024		7.4						13.3	6.5
8/22/2024									

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	37				
9/13/2016					
9/14/2016		1.1			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		1.4			
11/14/2016					
11/15/2016					
11/16/2016	37				
11/28/2016					
12/15/2016		2.9			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		0.98			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	33				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		1.1			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		0.91			
5/1/2017					
5/2/2017					
5/8/2017	33				
5/9/2017					
5/26/2017		0.93			
6/27/2017					
6/28/2017		1			
6/29/2017					

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	32				
7/17/2017					
10/3/2017		1.2			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	29		2.4		
10/12/2017				3.8	
10/16/2017					
11/20/2017			1.8	4.4	
1/10/2018				4.6	
1/11/2018			1.6		
2/19/2018				4.6	
2/20/2018			2		
4/2/2018					
4/3/2018			3.3	5.9	
4/4/2018	26.6				
6/5/2018					
6/6/2018					
6/7/2018		1			
6/8/2018					
6/11/2018					
6/28/2018			2.1	5	
8/6/2018					
8/7/2018			1.2	4.3	
9/19/2018	26.5				
9/24/2018			1.3	4.9	
9/25/2018					
9/26/2018					
10/1/2018		1.1			
10/2/2018					
2/25/2019					
3/26/2019				4.4	
3/27/2019	20.9		1.4		
3/28/2019					
3/29/2019		1.2			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		0.95 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	25		2.1	5.1	
3/17/2020	24.8				
3/18/2020					
3/19/2020		0.97 (J)			
3/24/2020				4.7	
3/25/2020			1.9		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	25.8				
8/27/2020					3.9
8/28/2020	25.9				
9/22/2020					4.1
9/23/2020	28.1	0.88 (J)			
9/24/2020			2.7	5	
9/25/2020					
10/7/2020	28.2				4
11/12/2020	26.7				3.8
3/1/2021					3.7
3/2/2021	27.4				
3/3/2021		0.86 (J)			
3/4/2021			4.9	4.9	
8/19/2021					
8/20/2021					3.1
8/26/2021			7.2		
8/27/2021	29.3	0.99 (J)			
9/1/2021					
9/3/2021				5.5	
2/8/2022			7.4	6.2	
2/9/2022	28.2	1 (J)			3.2
2/10/2022					
2/11/2022					
8/30/2022		1.2			
8/31/2022	29.9		6.7	6.3	3.4
2/7/2023		1.1	5.6		
2/8/2023				6.9	
2/9/2023					
2/10/2023	33.5				3.3
8/15/2023	32.2	0.93 (J)	4.5	5.6	3
8/16/2023					
2/20/2024		0.96 (J)	4.6	5.7	
2/21/2024	36.3				2.9
2/23/2024					
8/20/2024		0.91 (J)			
8/21/2024	39.6		4	5.4	
8/22/2024					3

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/1/2016	0.15 (J)	0.12 (J)	<0.1						
6/2/2016				0.11 (J)	0.62	<0.1	<0.1	<0.1	<0.1
6/6/2016									
6/7/2016									
7/25/2016	0.14 (J)		0.06 (J)				0.06 (J)		
7/26/2016		0.08 (J)		0.05 (J)	0.49	0.02 (J)		<0.1	<0.1
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		0.11 (J)	<0.1						
9/14/2016	0.18 (J)			0.04 (J)				<0.1	<0.1
9/15/2016					0.54	<0.1			
9/16/2016									
9/19/2016							<0.1		
11/1/2016	<0.1	<0.1			0.68		<0.1		
11/2/2016				<0.1		<0.1			<0.1
11/3/2016									
11/4/2016			<0.1					<0.1	
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						<0.1			
1/11/2017	0.09 (J)	0.05 (J)			0.49				
1/12/2017				0.04 (J)				<0.1	
1/13/2017									<0.1
1/16/2017			<0.1				<0.1		
2/21/2017							<0.1		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	<0.1								
3/2/2017		<0.1	<0.1		0.48				
3/3/2017									
3/6/2017									<0.1
3/7/2017				<0.1				<0.1	
3/8/2017						<0.1			
4/26/2017	0.08 (J)				0.48	<0.1	<0.1		
4/27/2017		0.04 (J)	0.01 (J)						
4/28/2017									
5/1/2017				<0.1					<0.1
5/2/2017								<0.1	
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017		<0.1	<0.1	<0.1				<0.1	
6/28/2017	0.12 (J)				0.47				
6/29/2017									<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/30/2017						<0.1	<0.1		
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017		<0.1	<0.1	<0.1				<0.1	
10/4/2017	<0.1				<0.1		<0.1		
10/5/2017						<0.1			<0.1
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018			<0.1			<0.1	<0.1		
3/28/2018	<0.1				0.56				
3/29/2018		<0.1		<0.1				<0.1	<0.1
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		0.055 (J)							
6/6/2018			<0.1	0.15 (J)					
6/7/2018					0.48			<0.1	<0.1
6/8/2018	0.2 (J)					<0.1			
6/11/2018							<0.1		
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				<0.1				<0.1	<0.1
10/1/2018	<0.1	<0.1	<0.1		0.44	<0.1			
10/2/2018							<0.1		
2/25/2019									
2/26/2019						<0.1	<0.1		
2/27/2019	0.13 (J)	0.052 (J)	<0.1		0.53				
3/4/2019				0.19 (J)				<0.1	<0.1
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		0.036 (J)	<0.1						
3/29/2019						<0.1			
4/1/2019	0.1 (J)				0.45		<0.1		
4/2/2019									
4/3/2019				0.047 (J)				<0.1	<0.1
6/12/2019									
8/19/2019									
8/20/2019									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
8/21/2019									
9/24/2019		0.063 (J)	<0.1	0.05 (J)				<0.1	
9/25/2019	0.1 (J)				0.46	<0.1	<0.1		<0.1
9/26/2019									
10/8/2019									
10/9/2019									
2/10/2020		0.061 (J)	<0.1						
2/11/2020	0.094 (J)								
2/12/2020				<0.1	0.4	<0.1	<0.1	<0.1	<0.1
3/17/2020									
3/18/2020			<0.1			<0.1			
3/19/2020	0.11 (J)	0.064 (J)			0.51		<0.1		
3/24/2020				<0.1				<0.1	
3/25/2020									<0.1
7/6/2020									
8/26/2020									
8/27/2020									
8/28/2020									
9/22/2020				0.056 (J)				<0.1	<0.1
9/23/2020	0.098 (J)	0.058 (J)	<0.1		0.47				
9/24/2020							<0.1		
9/25/2020						<0.1			
10/7/2020									
11/12/2020									
2/8/2021				0.055 (J)				<0.1	
2/9/2021									<0.1
2/10/2021	<0.1				0.43	<0.1			
2/11/2021							<0.1		
2/12/2021		0.068 (J)	<0.1						
3/1/2021							<0.1		
3/2/2021				<0.1		<0.1		<0.1	
3/3/2021	0.1	0.078 (J)	<0.1		0.44				<0.1
3/4/2021									
8/19/2021		0.074 (J)	<0.1		0.47	<0.1	<0.1		
8/20/2021									
8/26/2021				0.061 (J)				<0.1	<0.1
8/27/2021	0.12								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	0.097 (J)	0.057 (J)	<0.1		0.43				
2/10/2022				0.055 (J)		<0.1		<0.1	
2/11/2022							<0.1		<0.1
8/30/2022		0.093 (J)		0.085 (J)				<0.1	
8/31/2022	0.13		0.065 (J)		0.42	0.053 (J)	0.06 (J)		0.061 (J)
2/7/2023		0.093 (J)	0.071 (J)	0.082 (J)					
2/8/2023	0.16				0.56	0.059 (J)	0.064 (J)		
2/9/2023								<0.1	0.067 (J)
2/10/2023									
8/15/2023		0.057 (J)	<0.1	<0.1	0.42	<0.1		<0.1	<0.1
8/16/2023	0.11						<0.1		
2/20/2024	0.12	0.086 (J)	<0.1	0.076 (J)	0.45		0.051 (J)	<0.1	0.059 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
2/21/2024									
2/23/2024						<0.1			
8/20/2024	0.12	0.066 (J)	<0.1	0.058 (J)	0.45	<0.1	<0.1	<0.1	<0.1
8/21/2024									
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1		<0.1				
7/28/2016				0.02 (J)					
8/30/2016						0.09 (J)			
8/31/2016							<0.1	0.11 (J)	0.14 (J)
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		<0.1	<0.1						
9/19/2016	<0.1			0.02 (J)	<0.1				
11/1/2016									
11/2/2016					<0.1				
11/3/2016	<0.1	<0.1	<0.1	<0.1					
11/4/2016									
11/14/2016						0.18 (J)		0.71	
11/15/2016							0.12 (J)		
11/16/2016									
11/28/2016									0.12 (J)
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1	<0.1						
1/12/2017									
1/13/2017				<0.1	<0.1				
1/16/2017									
2/21/2017									
2/22/2017									0.09 (J)
2/24/2017						0.05 (J)			
2/27/2017								0.22 (J)	
2/28/2017							0.07 (J)		
3/1/2017	<0.1	<0.1							
3/2/2017			<0.1						
3/3/2017									
3/6/2017				<0.1	<0.1				
3/7/2017									
3/8/2017									
4/26/2017	<0.1	<0.1		0.04 (J)	<0.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.1						
5/8/2017						0.03 (J)	0.04 (J)		0.05 (J)
5/9/2017								0.2 (J)	
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1	<0.1				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/30/2017									
7/11/2017						0.07 (J)			
7/13/2017							<0.1	0.11 (J)	
7/17/2017									0.14 (J)
10/3/2017				<0.1					
10/4/2017		<0.1	<0.1		<0.1				
10/5/2017	<0.1								
10/10/2017						<0.1	<0.1	0.39	
10/11/2017									
10/12/2017									
10/16/2017									0.12 (J)
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									0.17
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1	<0.1						
3/29/2018				<0.1	<0.1				
4/2/2018						<0.1			
4/3/2018								<0.1	
4/4/2018							<0.1		
6/5/2018				0.13 (J)					
6/6/2018					<0.1				
6/7/2018	<0.1								
6/8/2018									
6/11/2018		<0.1	<0.1						
6/28/2018									
8/6/2018									0.087 (J)
8/7/2018									
9/19/2018						<0.1	<0.1	<0.1	
9/24/2018									
9/25/2018	<0.1	<0.1	<0.1	0 (J)	<0.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									0.14 (J)
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019		<0.1	<0.1	0.32	<0.1				
3/6/2019	<0.1								
3/26/2019									
3/27/2019						0.081 (J)	<0.1	0.18 (J)	
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			<0.1	0.12 (J)					
4/3/2019	<0.1	<0.1			<0.1				
6/12/2019									0.12 (J)
8/19/2019									<0.1
8/20/2019						<0.1	<0.1	<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
8/21/2019									
9/24/2019				0.15 (J)					
9/25/2019			<0.1		<0.1				
9/26/2019	<0.1	<0.1							
10/8/2019						0.034 (J)	<0.1		0.052 (J)
10/9/2019								<0.1	
2/10/2020									
2/11/2020	<0.1	<0.1	<0.1						
2/12/2020				0.1 (J)	<0.1				
3/17/2020						<0.1	<0.1	0.076 (J)	0.053 (J)
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0.1	<0.1	0.081 (J)	<0.1				
3/25/2020									
7/6/2020									
8/26/2020									0.068 (J)
8/27/2020						<0.1	<0.1		
8/28/2020								0.07 (J)	
9/22/2020						<0.1	<0.1		0.058 (J)
9/23/2020	<0.1	<0.1	<0.1					0.082 (J)	
9/24/2020				0.079 (J)	<0.1				
9/25/2020									
10/7/2020									
11/12/2020									
2/8/2021									
2/9/2021	<0.1	<0.1		0.092 (J)	<0.1				
2/10/2021									
2/11/2021									
2/12/2021									
3/1/2021						<0.1	<0.1	0.073 (J)	
3/2/2021									0.073 (J)
3/3/2021	<0.1	<0.1	<0.1		<0.1				
3/4/2021				0.091 (J)					
8/19/2021						<0.1	<0.1	0.075 (J)	
8/20/2021									0.06 (J)
8/26/2021		<0.1							
8/27/2021	<0.1		<0.1		<0.1				
9/1/2021				0.11					
9/3/2021									
2/8/2022						<0.1			0.064 (J)
2/9/2022	<0.1	<0.1	<0.1	0.1	<0.1		<0.1	0.063 (J)	
2/10/2022									
2/11/2022									
8/30/2022	<0.1	<0.1	<0.1	0.1					0.086 (J)
8/31/2022					<0.1	0.065 (J)	0.055 (J)	0.1	
2/7/2023	<0.1	<0.1	<0.1	0.1	<0.1				0.095 (J)
2/8/2023						0.077 (J)	0.062 (J)		
2/9/2023								0.11	
2/10/2023									
8/15/2023	<0.1	<0.1	<0.1	0.061 (J)	<0.1	<0.1	<0.1	0.07 (J)	0.065 (J)
8/16/2023									
2/20/2024	<0.1		<0.1	0.083 (J)	<0.1	0.073 (J)			0.094 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
2/21/2024							<0.1	0.099 (J)	
2/23/2024		<0.1							
8/20/2024	<0.1		<0.1	0.062 (J)	<0.1	<0.1			
8/21/2024		0.051 (J)					<0.1	0.077 (J)	
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	0.08 (J)				
9/13/2016					
9/14/2016		0.08 (J)			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		<0.1			
11/14/2016					
11/15/2016					
11/16/2016	0.04 (J)				
11/28/2016					
12/15/2016		0.06 (J)			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		0.1 (J)			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	0.05 (J)				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		<0.1			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		0.06 (J)			
5/1/2017					
5/2/2017					
5/8/2017	0.004 (J)				
5/9/2017					
5/26/2017		0.09 (J)			
6/27/2017					
6/28/2017		0.11 (J)			
6/29/2017					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	0.35				
7/17/2017					
10/3/2017		<0.1			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	<0.1		<0.1		
10/12/2017				<0.1	
10/16/2017					
11/20/2017			<0.1	<0.1	
1/10/2018				<0.1	
1/11/2018			<0.1		
2/19/2018				<0.1	
2/20/2018			0.23		
3/27/2018					
3/28/2018		0.31			
3/29/2018					
4/2/2018					
4/3/2018			<0.1	<0.1	
4/4/2018	<0.1				
6/5/2018					
6/6/2018					
6/7/2018		0.11 (J)			
6/8/2018					
6/11/2018					
6/28/2018			<0.1	<0.1	
8/6/2018					
8/7/2018			0.048 (J)	<0.1	
9/19/2018	<0.1				
9/24/2018			<0.1	<0.1	
9/25/2018					
9/26/2018					
10/1/2018		<0.1			
10/2/2018					
2/25/2019					
2/26/2019					
2/27/2019		0.12 (J)			
3/4/2019					
3/5/2019					
3/6/2019					
3/26/2019				<0.1	
3/27/2019	0.12 (J)		<0.1		
3/28/2019					
3/29/2019		0.13 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
8/19/2019					
8/20/2019					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
8/21/2019	<0.1		<0.1	<0.1	
9/24/2019		0.081 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	0.12 (J)		<0.1	<0.1	
2/10/2020					
2/11/2020		0.075 (J)			
2/12/2020			<0.1	<0.1	
3/17/2020	<0.1				
3/18/2020					
3/19/2020		0.093 (J)			
3/24/2020				<0.1	
3/25/2020			<0.1		
7/6/2020	0.12				
8/26/2020					
8/27/2020					<0.1
8/28/2020	0.12				
9/22/2020					<0.1
9/23/2020	0.12	0.08 (J)			
9/24/2020			<0.1	<0.1	
9/25/2020					
10/7/2020	0.13				<0.1
11/12/2020	0.084 (J)				<0.1
2/8/2021					
2/9/2021					
2/10/2021		0.094 (J)	<0.1	<0.1	
2/11/2021					
2/12/2021					
3/1/2021					<0.1
3/2/2021	0.12				
3/3/2021		0.085 (J)			
3/4/2021			<0.1	<0.1	
8/19/2021					
8/20/2021					<0.1
8/26/2021			0.063 (J)		
8/27/2021	0.13	0.12			
9/1/2021					
9/3/2021				<0.1	
2/8/2022			0.052 (J)	<0.1	
2/9/2022	0.12	0.094 (J)			<0.1
2/10/2022					
2/11/2022					
8/30/2022		0.12			
8/31/2022	0.12		0.065 (J)	0.05 (J)	0.059 (J)
2/7/2023		0.12	0.076 (J)		
2/8/2023				<0.1	
2/9/2023					
2/10/2023	0.17				0.063 (J)
8/15/2023	0.12	0.081 (J)	<0.1	<0.1	<0.1
8/16/2023					
2/20/2024		0.1	0.063 (J)	<0.1	

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
2/21/2024	0.11				0.054 (J)
2/23/2024					
8/20/2024		0.085 (J)			
8/21/2024	0.1		0.083 (J)	0.06 (J)	
8/22/2024					<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64								
6/1/2016		6.33	7.46	7.72					
6/2/2016					6.36	7.84	5.75	7.67	5.75
6/6/2016									
6/7/2016									
7/25/2016		6.21		7.74			5.82		
7/26/2016			7.43		6.22	7.88		7.66	5.72
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		6.16	7.44						
9/14/2016				7.65	6.23			7.6	5.74
9/15/2016						7.74			
9/16/2016									
9/19/2016							5.78 (D)		
11/1/2016			7.24	7.7		7.75	5.62		
11/2/2016					6.08			7.35	
11/3/2016									
11/4/2016		6.29							5.61
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017									
1/11/2017			7.3	7.53		7.66			
1/12/2017								7.49	5.71
1/13/2017					6.19				
1/16/2017		6.29					5.72		
2/21/2017							5.67		
2/22/2017	6.21								
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017				7.42					
3/2/2017		6.28	7.23			7.68			
3/3/2017									
3/6/2017					6.2				

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/7/2017								7.43	5.66
3/8/2017									
4/26/2017				7.4		7.45	5.56		
4/27/2017		6.09	6.99						
4/28/2017									
5/1/2017					6.21			7.22	
5/2/2017									5.65
5/8/2017	6.12								
5/9/2017									
5/26/2017									
6/27/2017		6.21	6.87					7.32	5.7
6/28/2017				7.5		7.65			
6/29/2017					6.21				
6/30/2017							5.72		
7/11/2017									
7/13/2017									
7/17/2017	6.03								
10/3/2017		5.98	6.81					7.48	5.79
10/4/2017				7.45		7.49	5.87		
10/5/2017					6.16				
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018		6.25					5.83		
3/28/2018				7.74		7.91			
3/29/2018			7.38		6.09			7.02	5.63
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			7.16						
6/6/2018		6.17						7.43	
6/7/2018					6.12	7.69			5.63
6/8/2018				7.64					
6/11/2018							5.69		
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					5.84			7.13	5.63
10/1/2018		5.9	6.8	7.47		7.39			
10/2/2018							5.39		
2/25/2019	6.51								
2/26/2019							5.77		
2/27/2019		5.8	6.84	7.54		7.55			

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/4/2019					6.18			7.46	5.75
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		6.15	6.99						
3/29/2019									
4/1/2019				7.74		7.87	5.62		
4/2/2019									
4/3/2019					6.43			7.11	5.63
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
9/24/2019		6.23	7.07					6.93	5.6
9/25/2019				7.47	6.2	7.64	5.69		
9/26/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020		6.1	7.2						
2/11/2020				7.09					
2/12/2020					6.15	7.83	5.8	7.52	5.83
3/17/2020	6.14								
3/18/2020		6.19							
3/19/2020			7.03	7.31		7.65	6		
3/24/2020								7.34	5.81
3/25/2020					6.26				
5/6/2020	6.24								
7/6/2020									
8/26/2020	5.67								
8/27/2020									
8/28/2020									
9/22/2020	5.78				5.8			7.19	5.99
9/23/2020		6.01	7.15	7.37		7.57			
9/24/2020							5.67		
9/25/2020									
10/7/2020									
2/8/2021									5.67
2/9/2021					6.06				
2/10/2021				7.58		7.81			
2/11/2021							5.73		
2/12/2021		6.21	7.14						
3/1/2021							5.78		
3/2/2021	5.42							7.15	5.63
3/3/2021		5.38	7.2	8.23	6.21	8.39			
3/4/2021									
8/19/2021		6.38	6.32			5.34			
8/20/2021	5.86								
8/26/2021					5.82			7.16	5.51
8/27/2021				7.39					
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/8/2022	5.83								
2/9/2022		6.24	7.12	7.66		7.97			
2/10/2022								6.99	5.14
2/11/2022					5.95		5.59		
8/30/2022	5.39		7.2					7.4	5
8/31/2022		5.64		7.49	5.5	7.65	5.87		
2/7/2023	5.94	6.53	7.86					6.64	
2/8/2023				7.73		7.88	6.43		
2/9/2023					6.23				5.9
2/10/2023									
8/15/2023	5.3	5.88	6.98		5.99	7.69		7.34	5.58
8/16/2023				7.39			5.55		
2/20/2024	6.07	6.42	7.06	7.59	6.21	7.81	5.81	7.56	5.78
2/21/2024									
2/23/2024									
8/20/2024		5.77	7.18	7.45	6.03	7.59	6.07	7.3	5.58
8/21/2024									
8/22/2024									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	5.46								
6/6/2016		6.17	5.71						
6/7/2016				6.1	5.77	5.62			
7/25/2016									
7/26/2016	5.45								
7/27/2016		6.14	5.46		5.79	5.59			
7/28/2016				6.12					
8/30/2016							5.75		
8/31/2016								6.01	7.15
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016	5.45								
9/16/2016						5.58			
9/19/2016		6.04	5.59	6.12	5.73				
11/1/2016									
11/2/2016	5.41				5.67				
11/3/2016		5.97	5.39	6.07		5.59			
11/4/2016									
11/14/2016							5.59		6.96
11/15/2016								5.91	
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017	5.37								
1/11/2017		6.05	5.48			5.59			
1/12/2017									
1/13/2017				6.41	5.79				
1/16/2017									
2/21/2017									
2/22/2017									
2/24/2017							5.49		
2/27/2017									6.79
2/28/2017								5.85	
3/1/2017		5.94	5.41						
3/2/2017						5.54			
3/3/2017									
3/6/2017				6.34	5.63				

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45
3/7/2017									
3/8/2017	5.41								
4/26/2017	5.02	5.99	5.4	6.32	5.66				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017						5.47			
5/8/2017							5.58	5.91	
5/9/2017									6.9
5/26/2017									
6/27/2017									
6/28/2017		6	5.36						
6/29/2017				6.47	5.85	5.56			
6/30/2017	5.39								
7/11/2017							5.58		
7/13/2017								5.8	6.77
7/17/2017									
10/3/2017				6.56					
10/4/2017			5.32		5.83	5.57			
10/5/2017	5.49	6.11							
10/10/2017							5.49	5.76	6.9
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018	5.47								
3/28/2018		6.1	5.34			5.59			
3/29/2018				6.75	5.93				
4/2/2018							6.3		
4/3/2018									6.44
4/4/2018								5.77	
6/5/2018				6.09					
6/6/2018					5.86				
6/7/2018		5.98							
6/8/2018	5.45								
6/11/2018			5.28			5.58			
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018							5.48	5.77	6.47
9/24/2018									
9/25/2018		5.81	4.86	6.67	5.84	5.59			
9/26/2018									
10/1/2018	5.39								
10/2/2018									
2/25/2019									
2/26/2019	5.46								
2/27/2019									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45
3/4/2019									
3/5/2019			5.26	7.22	6.07	5.48			
3/6/2019		5.99							
3/26/2019									
3/27/2019							5.83	6.1	7.18
3/28/2019									
3/29/2019	5.34								
4/1/2019									
4/2/2019				6.94		5.74			
4/3/2019		6.29	5.47		5.71				
6/12/2019									
8/19/2019									
8/20/2019							5.58	5.78	6.48
8/21/2019									
9/24/2019				6.87					
9/25/2019	5.19				5.86	5.49			
9/26/2019		6.04	5.2						
10/8/2019							5.59	5.84	
10/9/2019									6.55
2/10/2020									
2/11/2020		6.07	5.3			5.58			
2/12/2020	5.48			7.13	6				
3/17/2020							5.57	5.9	6.69
3/18/2020	5.38								
3/19/2020									
3/24/2020		5.98	5.33	6.35	5.86	5.57			
3/25/2020									
5/6/2020									
7/6/2020									
8/26/2020									
8/27/2020							4.88	5.75	
8/28/2020									6.84
9/22/2020							5.46	5.53	
9/23/2020		6.01	5.29			5.58			6.57
9/24/2020				6.7	5.8				
9/25/2020	5.44								
10/7/2020									
2/8/2021									
2/9/2021		6.12	5.43	6.95	5.86				
2/10/2021	5.35								
2/11/2021									
2/12/2021									
3/1/2021							5.48	5.76	6.5
3/2/2021	5.49								
3/3/2021		5.89	5.31		5.89	5.52			
3/4/2021				6.8					
8/19/2021	7.32						5.5	5.73	6.13
8/20/2021									
8/26/2021			4.4						
8/27/2021		5.4			5.57	5.27			
9/1/2021				6.65					
9/3/2021									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45
2/8/2022							5.4		
2/9/2022		5.98	5.28	6.84	5.91	5.53		5.73	6.15
2/10/2022	4.5								
2/11/2022									
8/30/2022		5.82	5.18	6.58		4.68			
8/31/2022	5.15				5.38		5.32	5.77	6.56
2/7/2023		6	5.03	6.82	5.63	5.47			
2/8/2023	5.39						5.22	5.6	
2/9/2023									6.47
2/10/2023									
8/15/2023	5.03	5.82	5.2	6.84	7	5.54	5.69	5.79	6.97
8/16/2023									
2/20/2024		6.11		6.78	5.99	5.64	5.62		
2/21/2024								5.82	6.35
2/23/2024	5.39		5.3						
8/20/2024	5.49	5.74		6.6	6	5.45	5.48		
8/21/2024			5.29					5.8	6.54
8/22/2024									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
8/27/2008					
3/3/2009					
11/18/2009					
3/3/2010					
3/10/2011					
9/8/2011					
3/5/2012					
9/10/2012					
2/6/2013					
8/12/2013					
2/5/2014					
8/3/2015					
2/16/2016					
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	6.19				
9/13/2016		7.41			
9/14/2016					
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		7.12			
11/14/2016					
11/15/2016					
11/16/2016	6.05				
11/28/2016					
12/15/2016		7.24			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		7.24			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	6.01				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		7.22			
3/6/2017					

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		7.21			
5/1/2017					
5/2/2017					
5/8/2017	6.1				
5/9/2017					
5/26/2017		7.13			
6/27/2017					
6/28/2017		7.06			
6/29/2017					
6/30/2017					
7/11/2017					
7/13/2017	6.07				
7/17/2017					
10/3/2017		6.99			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	5.93		6.4		
10/12/2017				5.43	
10/16/2017					
11/20/2017			6.33	5.1	
1/10/2018				4.97	
1/11/2018			6.29		
2/19/2018				5.6	
2/20/2018			7.22		
3/27/2018					
3/28/2018		7.3			
3/29/2018					
4/2/2018					
4/3/2018			6.87	5.84	
4/4/2018	6.01				
6/5/2018					
6/6/2018					
6/7/2018		7.29			
6/8/2018					
6/11/2018					
6/28/2018			6.18	5.24	
8/6/2018					
8/7/2018			6.08	5.18	
9/19/2018	6.09				
9/24/2018			5.81	5.14	
9/25/2018					
9/26/2018					
10/1/2018		7.07			
10/2/2018					
2/25/2019					
2/26/2019					
2/27/2019		7.27			

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/4/2019					
3/5/2019					
3/6/2019					
3/26/2019				5.3	
3/27/2019	6.2		5.84		
3/28/2019					
3/29/2019		7.06			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
8/19/2019					
8/20/2019					
8/21/2019	5.82		5.96	5.26	
9/24/2019		7.01			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	5.96		5.81	5.22	
2/10/2020					
2/11/2020		7.38			
2/12/2020			5.97	5.3	
3/17/2020	5.99				
3/18/2020					
3/19/2020		7.22			
3/24/2020				5.29	
3/25/2020			5.78		
5/6/2020					
7/6/2020	6.89				
8/26/2020					
8/27/2020					5.8
8/28/2020	7.05				
9/22/2020					5.91
9/23/2020	6.81	7.22			
9/24/2020			5.7	5.43	
9/25/2020					
10/7/2020	7.06				5.87
2/8/2021					
2/9/2021					
2/10/2021		7.29	5.8	5.19	
2/11/2021					
2/12/2021					
3/1/2021					5.84
3/2/2021	6.72				
3/3/2021		7.92			
3/4/2021			5.54	5.23	
8/19/2021					
8/20/2021					6.71
8/26/2021			6.91		
8/27/2021	6.83	7.14			
9/1/2021					
9/3/2021				4.75	

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
2/8/2022			5.78	5.26	
2/9/2022	6.98	5.89			5.99
2/10/2022					
2/11/2022					
8/30/2022		7.04			
8/31/2022	6.87		5.3	4.53	5.58
2/7/2023		6.94	5.49		
2/8/2023				5.71	
2/9/2023					
2/10/2023	7.32				6
8/15/2023	7.51	6.96	5.78	5	6.05
8/16/2023					
2/20/2024		7.23	5.97	5.32	
2/21/2024	7.51				5.74
2/23/2024					
8/20/2024		6.91			
8/21/2024	7.41		6	5.38	
8/22/2024					6.01

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	4.2	12	5						
6/2/2016				20	1.9	8	6.6	1.3	5.8
6/6/2016									
6/7/2016									
7/25/2016	3.7	8.4						1.2	
7/26/2016			5.4	20	1.8	7.7	6.1		6.7
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	5.2		2.9						
9/14/2016		8.6		19	1.8	7.5			
9/15/2016							6.1		6
9/16/2016									
9/19/2016								1.2	
11/1/2016		8.9	3.9					1.3	4.9
11/2/2016				20		8.2	6.3		
11/3/2016									
11/4/2016	5				2				
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							5.9		
1/11/2017		8.6	3.7						4.5
1/12/2017				19	1.9				
1/13/2017						8.1			
1/16/2017	7.9							<1	
2/21/2017								1.4	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		9.3							
3/2/2017	7.4		4.6						4.4
3/3/2017									
3/6/2017						8			
3/7/2017				20	2.1				
3/8/2017							7		
4/26/2017		11					7	1.4	5.1
4/27/2017	7.4		5.2						
4/28/2017									
5/1/2017				20		8.4			
5/2/2017					2				
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	6.4		5.9	18	2.1				
6/28/2017		12							5.4
6/29/2017						9.2			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/30/2017							6.5	<1	
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	5.9		6.6	16	2.3				
10/4/2017		12						1.4	6.2
10/5/2017						9.6	7.9		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			6.4						
6/6/2018	4.4			8.3					
6/7/2018					2	8.5			6.7
6/8/2018		9.6					6.4		
6/11/2018								1.1	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				7.9	2.3	10.2			
10/1/2018	4	9.1	5.6				6.8		7.1
10/2/2018								1	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	4.3		8						
3/29/2019							7.3		
4/1/2019		8.5						0.96 (J)	7.2
4/2/2019									
4/3/2019				7	2.1	8.5			
6/12/2019									
9/24/2019	4.3		5.3	5.5	2.4				
9/25/2019		13.8				8.5	6.6	0.81 (J)	7
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	5.3						8.1		
3/19/2020		12.9	10					1.6	9
3/24/2020				5.9	2.1				
3/25/2020						8.8			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				5.5	2.1	8.2			
9/23/2020	3.4	16.8	8.1						6.9
9/24/2020								0.69 (J)	
9/25/2020							6.1		
10/7/2020									
11/12/2020									
3/1/2021								0.88 (J)	
3/2/2021				2.6	2.3		6		
3/3/2021	4.4	9.6	9			7.8			7
3/4/2021									
8/19/2021	4.9		8.9				6.7	1	7.5
8/20/2021									
8/26/2021				6	2.4	8.5			
8/27/2021		18.2							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	5.1	16	9.3						7.2
2/10/2022				4.9	2.4		6.2		
2/11/2022						7.7		2.8	
8/30/2022			10.2	5.7	2.4				
8/31/2022	4.8	13.9				8	5.8	1.1	6.9
2/7/2023	6.6		10.6	5.2					
2/8/2023		14.7					6.1	0.96 (J)	7.5
2/9/2023					2.9	8.9			
2/10/2023									
8/15/2023	4.6		9.6	4.8	2.2	7.5	6		6.8
8/16/2023		20.3						0.9 (J)	
2/20/2024	4.3	13.8	9.7	5.1	2.5	8.5		0.69 (J)	7
2/21/2024									
2/23/2024							7.1		
8/20/2024	4.9	13.7	12.2	4.3	2.6	8.7	7.6	0.74 (J)	7.7
8/21/2024									
8/22/2024									

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			5.2	4.4	<1				
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9		4.7	0.08 (J)				
7/28/2016			5.1						
8/30/2016						160			
8/31/2016							29	150	190
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.7		4.8					
9/19/2016	1.8		4.8		0.08 (J)				
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	0.69 (J)	1.9	5	5.3					
11/4/2016									
11/14/2016						150			200
11/15/2016								150	
11/16/2016									
11/28/2016							36		
12/15/2016									
1/10/2017									
1/11/2017	<1	1.7		5.2					
1/12/2017									
1/13/2017			4.3		<1				
1/16/2017									
2/21/2017									
2/22/2017							43		
2/24/2017						120			
2/27/2017									190
2/28/2017								130	
3/1/2017	1.8	<1							
3/2/2017				5					
3/3/2017									
3/6/2017			4.5		<1				
3/7/2017									
3/8/2017									
4/26/2017	1.6	1.9	4.9		<1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5					
5/8/2017						120	60	150	
5/9/2017									190
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.5	5.2	<1				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
6/30/2017									
7/11/2017						110			
7/13/2017								150	180
7/17/2017							63		
10/3/2017			5.8						
10/4/2017		1.7		5.3	<1				
10/5/2017	1.6								
10/10/2017						93		140	180
10/11/2017									
10/12/2017									
10/16/2017							62		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018							64.6		
2/20/2018									
4/2/2018						88.8			
4/3/2018									183
4/4/2018								137	
6/5/2018			6.1						
6/6/2018					0.049 (J)				
6/7/2018	0.68 (J)								
6/8/2018									
6/11/2018		0.95 (J)		5.2					
6/28/2018									
8/6/2018							42.1		
8/7/2018									
9/19/2018						75		137	192
9/24/2018									
9/25/2018	1	1.5	7	6.1	0.13 (J)				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019							42.1		
3/26/2019									
3/27/2019						65.9		146	188
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			3.8	5.1					
4/3/2019	0.82 (J)	1.3			0.12 (J)				
6/12/2019							83.4		
9/24/2019			1						
9/25/2019				5.5	<1				
9/26/2019	0.64 (J)	1							
10/8/2019						52.3	128	142	
10/9/2019									183
3/17/2020						71.6	98.6	121	161
3/18/2020									
3/19/2020									
3/24/2020	<1	0.99 (J)	3	5.4	<1				
3/25/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						51.5	145	130	
9/23/2020	0.53 (J)	1.1		5.1					170
9/24/2020			3.6		<1				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						51.6		119	159
3/2/2021							156		
3/3/2021	<1	1		5.2	<1				
3/4/2021			4.5						
8/19/2021						52.6		115	149
8/20/2021							121		
8/26/2021		1.2							
8/27/2021	0.59 (J)			5.3	<1				
9/1/2021			5						
9/3/2021									
2/8/2022						50.9	107		
2/9/2022	0.51 (J)	1.1	3.9	4.8	<1			121	164
2/10/2022									
2/11/2022									
8/30/2022	0.78 (J)	1.3	3.2	4.7			101		
8/31/2022					<1	48		130	177
2/7/2023	0.78 (J)	1.2	3.8	4.9	<1		82.4		
2/8/2023						50.5		130	
2/9/2023									193
2/10/2023									
8/15/2023	0.51 (J)	0.88 (J)	4.1	4.6	<1	47.7	74.2	113	154
8/16/2023									
2/20/2024	<1		3.8	4.6	<1	51	75		
2/21/2024								124	170
2/23/2024		0.79 (J)							
8/20/2024	0.74 (J)		4	4.6	<1	53.9			
8/21/2024		1.1						121	166
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	770				
9/13/2016					
9/14/2016		9.4			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		13			
11/14/2016					
11/15/2016					
11/16/2016	780				
11/28/2016					
12/15/2016		1.8			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		11			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	650				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		8.8			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		10			
5/1/2017					
5/2/2017					
5/8/2017	770				
5/9/2017					
5/26/2017		12			
6/27/2017					
6/28/2017		11			
6/29/2017					

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	630				
7/17/2017					
10/3/2017		7.9			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	540		20		
10/12/2017				17	
10/16/2017					
11/20/2017			24	71	
1/10/2018				66	
1/11/2018			23		
2/19/2018				57.2	
2/20/2018			20.6		
4/2/2018					
4/3/2018			24.5	49.4	
4/4/2018	430				
6/5/2018					
6/6/2018					
6/7/2018		8.8			
6/8/2018					
6/11/2018					
6/28/2018			22	43.8	
8/6/2018					
8/7/2018			20.7	40.5	
9/19/2018	395				
9/24/2018			21.2	39.7	
9/25/2018					
9/26/2018					
10/1/2018		9.1			
10/2/2018					
2/25/2019					
3/26/2019				34.3	
3/27/2019	437		17.7		
3/28/2019					
3/29/2019		9			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		9.1			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	<1		15	27.9	
3/17/2020	439				
3/18/2020					
3/19/2020		12.4			
3/24/2020				25.2	
3/25/2020			14.3		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	385				
8/27/2020					144
8/28/2020	394				
9/22/2020					156
9/23/2020	430	11.8			
9/24/2020			11.7	22.9	
9/25/2020					
10/7/2020	427				156
11/12/2020	385				147
3/1/2021					139
3/2/2021	387				
3/3/2021		10.6			
3/4/2021			12	21.5	
8/19/2021					
8/20/2021					122
8/26/2021			19.2		
8/27/2021	423	16.7			
9/1/2021					
9/3/2021				21.3	
2/8/2022			14.6	17.9	
2/9/2022	415	18			119
2/10/2022					
2/11/2022					
8/30/2022		20.1			
8/31/2022	459		10.9	17.9	122
2/7/2023		17.8	9.7		
2/8/2023				17.5	
2/9/2023					
2/10/2023	517				114
8/15/2023	419	17.2	7.6	16.4	96.5
8/16/2023					
2/20/2024		23.1	8.6	17.2	
2/21/2024	511				98.9
2/23/2024					
8/20/2024		21.3			
8/21/2024	518		6.6	18.2	
8/22/2024					87.1

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/1/2016	120	150	54						
6/2/2016				160	66	130	96	46	36
6/6/2016									
6/7/2016									
7/25/2016		135	48						50
7/26/2016	94			177	78	141	92	54	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	105		67						
9/14/2016		127		187	73		102		
9/15/2016						153		54	
9/16/2016									
9/19/2016									35
11/1/2016	44	75				92			<25
11/2/2016				181			115	71	
11/3/2016									
11/4/2016			60		75				
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								45	
1/11/2017	107	148				159			
1/12/2017				202	86				
1/13/2017							67		
1/16/2017			65						47
2/21/2017									<25
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		182							
3/2/2017	98		61			117			
3/3/2017									
3/6/2017							159		
3/7/2017				257	108				
3/8/2017								178	
4/26/2017		92				181		52	55
4/27/2017	116		31						
4/28/2017									
5/1/2017				165			107		
5/2/2017					103				
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	89		42	189	73				
6/28/2017		126				169			
6/29/2017							79		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/30/2017								45	42
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	119		58	170	89				
10/4/2017		147				141			31
10/5/2017							95	40	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018	127								
6/6/2018			96	151					
6/7/2018					142	95	90		
6/8/2018		158						114	
6/11/2018									59
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				144	86		116		
10/1/2018	117	138	60			165		50	
10/2/2018									57
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	87		87						
3/29/2019								63	
4/1/2019		19 (J)				149			54
4/2/2019									
4/3/2019				142	83		111		
6/12/2019									
9/24/2019	124		54	129	79				
9/25/2019		159				157	117	64	51
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			35					57	
3/19/2020	116	148				146			47
3/24/2020				139	68				
3/25/2020							146		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				104	75		83		
9/23/2020	108	155	15			157			
9/24/2020									51
9/25/2020								54	
10/7/2020									
11/12/2020									
3/1/2021									23
3/2/2021				52	67			67	
3/3/2021	99	111	39			137	80		
3/4/2021									
8/19/2021	105		44			144		54	50
8/20/2021									
8/26/2021				123	86		93		
8/27/2021		155							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	105	145	57			154			
2/10/2022				127	77			56	
2/11/2022							102		66
8/30/2022	116			148	86				
8/31/2022		137	46			141	92	51	33
2/7/2023	131		121	180					
2/8/2023		145				144		56	43
2/9/2023					59		124		
2/10/2023									
8/15/2023	121		65	219	76	231	99	69	
8/16/2023		148							48
2/20/2024	130 (D6)	220	59	639 (o)	137	294	140		55
2/21/2024									
2/23/2024								64	
8/20/2024	140	179	67	212	108	164	128	81	69
8/21/2024									
8/22/2024									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			28	38	60				
7/25/2016									
7/26/2016									
7/27/2016	94	35	74	74					
7/28/2016					81				
8/30/2016						319			
8/31/2016							332	209	402
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35	67						
9/19/2016	92			45	68				
11/1/2016									
11/2/2016				53					
11/3/2016	104	48	41		61				
11/4/2016									
11/14/2016						280			445
11/15/2016							356		
11/16/2016									
11/28/2016								102	
12/15/2016									
1/10/2017									
1/11/2017	133	95	104						
1/12/2017									
1/13/2017				46	76				
1/16/2017									
2/21/2017									
2/22/2017								164	
2/24/2017						162			
2/27/2017									346
2/28/2017							483		
3/1/2017	119	79							
3/2/2017			77						
3/3/2017									
3/6/2017				164	167				
3/7/2017									
3/8/2017									
4/26/2017	162	36		34	50				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			142						
5/8/2017						194	296	145	
5/9/2017									388
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017			53	68	94				

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
6/30/2017									
7/11/2017						193			
7/13/2017							345		433
7/17/2017								185	
10/3/2017					149				
10/4/2017		45	61	54					
10/5/2017	104								
10/10/2017						175	311		396
10/11/2017									
10/12/2017									
10/16/2017								218	
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								173	
2/20/2018									
4/2/2018						192			
4/3/2018									418
4/4/2018							313		
6/5/2018					109				
6/6/2018				79					
6/7/2018	68								
6/8/2018									
6/11/2018		74	70						
6/28/2018									
8/6/2018								158	
8/7/2018									
9/19/2018						186	326		413
9/24/2018									
9/25/2018	109	63	86	73	122				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								92	
3/26/2019									
3/27/2019						170	302		383
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			72		134				
4/3/2019	89	63		57					
6/12/2019								226	
9/24/2019					157				
9/25/2019			81	75					
9/26/2019	126	72							
10/8/2019						172	324	276	
10/9/2019									432
3/17/2020						165	283	185	391
3/18/2020									
3/19/2020									
3/24/2020	91	59	71	76	117				
3/25/2020									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						141	294	281	
9/23/2020	103	81	99						404
9/24/2020				69	113				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						145	276		379
3/2/2021								296	
3/3/2021	95	37	57	53					
3/4/2021					110				
8/19/2021						134	333		391
8/20/2021								254	
8/26/2021		31							
8/27/2021	112		93	67					
9/1/2021					137				
9/3/2021									
2/8/2022						151		283	
2/9/2022	103	60	81	72	131		311		400
2/10/2022									
2/11/2022									
8/30/2022	100	52	81		122			244	
8/31/2022				62		116	343		445
2/7/2023	96	55	78	89	163			207	
2/8/2023						141	337		
2/9/2023									394
2/10/2023									
8/15/2023	96	81	74	62	126	186	319	230	404
8/16/2023									
2/20/2024	129		77	164	156	159		214	
2/21/2024							309		418
2/23/2024		52							
8/20/2024	128		86	75	143	155			
8/21/2024		79					320		442
8/22/2024									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	1240				
9/13/2016					
9/14/2016		152			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		148			
11/14/2016					
11/15/2016					
11/16/2016	1220				
11/28/2016					
12/15/2016		191			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		180			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	1060				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		156			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		130			
5/1/2017					
5/2/2017					
5/8/2017	1160				
5/9/2017					
5/26/2017		223			
6/27/2017					
6/28/2017		166			
6/29/2017					

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	996				
7/17/2017					
10/3/2017		153			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	835		68		
10/12/2017				74	
10/16/2017					
11/20/2017			139	179	
1/10/2018				140	
1/11/2018			153		
2/19/2018				119	
2/20/2018			87		
4/2/2018					
4/3/2018			85	106	
4/4/2018	1470				
6/5/2018					
6/6/2018					
6/7/2018		146			
6/8/2018					
6/11/2018					
6/28/2018			88	112	
8/6/2018					
8/7/2018			89	103	
9/19/2018	702				
9/24/2018			82	107	
9/25/2018					
9/26/2018					
10/1/2018		155			
10/2/2018					
2/25/2019					
3/26/2019				90	
3/27/2019	641		75		
3/28/2019					
3/29/2019		150			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		146			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	809		119	98	
3/17/2020	733				
3/18/2020					
3/19/2020		148			
3/24/2020				84	
3/25/2020			158		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/5/2024 8:20 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	793				
8/27/2020					349
8/28/2020	838				
9/22/2020					296
9/23/2020	832	161			
9/24/2020			170	77	
9/25/2020					
10/7/2020	842				336
11/12/2020	760				317
3/1/2021					265
3/2/2021	782				
3/3/2021		138			
3/4/2021			168	57	
8/19/2021					
8/20/2021					289
8/26/2021			249		
8/27/2021	810	150			
9/1/2021					
9/3/2021				88	
2/8/2022			248	93	
2/9/2022	846	156			278
2/10/2022					
2/11/2022					
8/30/2022		153			
8/31/2022	948		242	92	266
2/7/2023		159	224		
2/8/2023				115	
2/9/2023					
2/10/2023	995				228
8/15/2023	945	157	225	83	267
8/16/2023					
2/20/2024		159	233	109	
2/21/2024	1100				274
2/23/2024					
8/20/2024		184			
8/21/2024	1060		235	94	
8/22/2024					232

FIGURE F.

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/24/2024, 3:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	YGWC-44	-0.01632	-92	-81	Yes	20	0	n/a	0.01	NP
Boron, total (mg/L)	YGWA-39 (bg)	0.01793	115	81	Yes	20	5	n/a	0.01	NP
Boron, total (mg/L)	YGWA-40 (bg)	-0.01202	-131	-81	Yes	20	0	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5D (bg)	0.0007069	99	98	Yes	23	26.09	n/a	0.01	NP
Boron, total (mg/L)	YGWC-46A	0.08703	118	105	Yes	24	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-47 (bg)	-0.8737	-132	-81	Yes	20	5	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-17S (bg)	0.1465	186	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-18S (bg)	-0.06725	-171	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-39 (bg)	2.49	121	81	Yes	20	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5D (bg)	-1.034	-107	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5I (bg)	0.06991	145	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1D (bg)	0.5198	135	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1I (bg)	-0.07033	-126	-98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3I (bg)	0.478	103	98	Yes	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWC-46A	4.007	148	105	Yes	24	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWC-52	-5.623	-48	-38	Yes	12	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-47 (bg)	-0.3342	-132	-81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-17S (bg)	0.914	205	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-18I (bg)	0.1003	131	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-20S (bg)	0.09204	163	98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-40 (bg)	0.2393	106	81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-5D (bg)	-0.5475	-187	-98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-2 (bg)	0.2946	117	81	Yes	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3D (bg)	-0.0326	-128	-98	Yes	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3I (bg)	-0.0226	-105	-98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-47 (bg)	-10.68	-149	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWC-45	-4.01	-86	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-18I (bg)	-0.09033	-116	-98	Yes	23	21.74	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-39 (bg)	-2.451	-142	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-40 (bg)	-5.801	-141	-81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5D (bg)	-2.152	-197	-98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5I (bg)	0.0842	177	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-1D (bg)	0.8848	191	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-2I (bg)	1.44	132	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3D (bg)	0.2355	132	98	Yes	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3I (bg)	0.8717	133	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-47 (bg)	-9.336	-108	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-21I (bg)	9.422	118	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-39 (bg)	25.35	110	81	Yes	20	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/24/2024, 3:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	YGWA-47 (bg)	-0.0002753	-20	-81	No	20	10	n/a	0.01	NP
Boron, total (mg/L)	**YGWC-44**	**-0.01632**	**-92**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	YGWC-45	-0.0002647	-12	-81	No	20	0	n/a	0.01	NP
Boron, total (mg/L)	YGWA-17S (bg)	0.0006852	91	98	No	23	21.74	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18I (bg)	0	-6	-98	No	23	82.61	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18S (bg)	0.001019	79	98	No	23	30.43	n/a	0.01	NP
Boron, total (mg/L)	YGWA-20S (bg)	0	-1	-98	No	23	91.3	n/a	0.01	NP
Boron, total (mg/L)	YGWA-21I (bg)	0	-14	-98	No	23	60.87	n/a	0.01	NP
Boron, total (mg/L)	**YGWA-39 (bg)**	**0.01793**	**115**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**YGWA-40 (bg)**	**-0.01202**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	YGWA-4I (bg)	0	25	98	No	23	73.91	n/a	0.01	NP
Boron, total (mg/L)	**YGWA-5D (bg)**	**0.0007069**	**99**	**98**	**Yes**	**23**	**26.09**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	YGWA-5I (bg)	0	3	98	No	23	69.57	n/a	0.01	NP
Boron, total (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron, total (mg/L)	YGWA-14S (bg)	-0.0003528	-52	-98	No	23	8.696	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1D (bg)	0.001231	72	98	No	23	43.48	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1I (bg)	0	-15	-98	No	23	69.57	n/a	0.01	NP
Boron, total (mg/L)	YGWA-2I (bg)	0	10	98	No	23	82.61	n/a	0.01	NP
Boron, total (mg/L)	YGWA-30I (bg)	0	-7	-98	No	23	86.96	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3D (bg)	0	32	98	No	23	65.22	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3I (bg)	0	-9	-98	No	23	91.3	n/a	0.01	NP
Boron, total (mg/L)	**YGWC-46A**	**0.08703**	**118**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**YGWA-47 (bg)**	**-0.8737**	**-132**	**-81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWC-45	-0.03813	-6	-81	No	20	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-17S (bg)**	**0.1465**	**186**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWA-18I (bg)	0.07089	76	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-18S (bg)**	**-0.06725**	**-171**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWA-20S (bg)	0.0333	76	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-21I (bg)	0.4708	89	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-39 (bg)**	**2.49**	**121**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWA-40 (bg)	-0.194	-49	-81	No	20	5	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-4I (bg)	0.07686	35	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-5D (bg)**	**-1.034**	**-107**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**YGWA-5I (bg)**	**0.06991**	**145**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**GWA-2 (bg)**	**2.258**	**92**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWA-14S (bg)	0.0116	52	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-1D (bg)**	**0.5198**	**135**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**YGWA-1I (bg)**	**-0.07033**	**-126**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	YGWA-2I (bg)	0.2349	40	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-30I (bg)	0.02573	95	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3D (bg)	0.2967	79	98	No	23	0	n/a	0.01	NP
Calcium, total (mg/L)	**YGWA-3I (bg)**	**0.478**	**103**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**YGWC-46A**	**4.007**	**148**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**YGWC-52**	**-5.623**	**-48**	**-38**	**Yes**	**12**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**YGWA-47 (bg)**	**-0.3342**	**-132**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWC-44	0.06062	37	81	No	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	**YGWA-17S (bg)**	**0.914**	**205**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**YGWA-18I (bg)**	**0.1003**	**131**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWA-18S (bg)	0.09349	79	98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	**YGWA-20S (bg)**	**0.09204**	**163**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWA-21I (bg)	-0.05993	-61	-98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-39 (bg)	0.4784	81	81	No	20	0	n/a	0.01	NP
Chloride, Total (mg/L)	**YGWA-40 (bg)**	**0.2393**	**106**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWA-4I (bg)	0.08971	97	98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	**YGWA-5D (bg)**	**-0.5475**	**-187**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

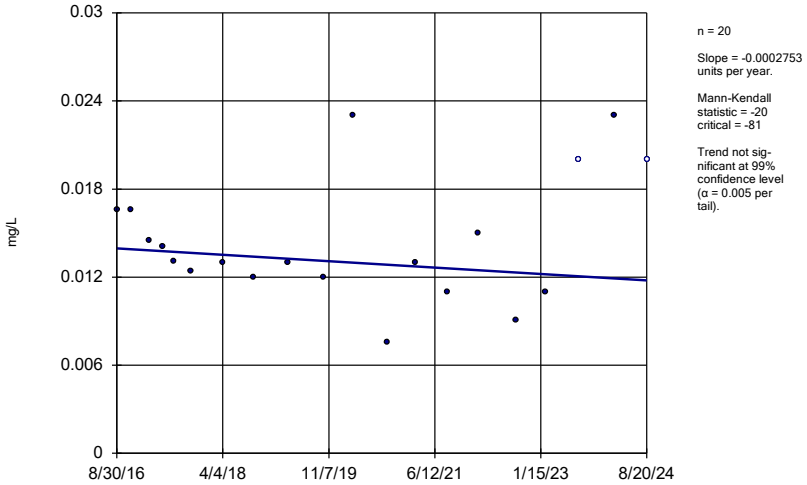
Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/24/2024, 3:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Chloride, Total (mg/L)	YGWA-5I (bg)	0.02938	38	98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWA-14S (bg)	0.08864	65	98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1D (bg)	0	-52	-98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1I (bg)	-0.01344	-54	-98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-2I (bg)	-0.01855	-67	-98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-30I (bg)	-0.02934	-82	-98	No	23	0	n/a	0.01	NP
Chloride, Total (mg/L)	**YGWA-3D (bg)**	**-0.0326**	**-128**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**YGWA-3I (bg)**	**-0.0226**	**-105**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	YGWC-46A	0.4437	31	105	No	24	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-47 (bg)**	**-10.68**	**-149**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**YGWC-45**	**-4.01**	**-86**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-17S (bg)	-0.02522	-31	-98	No	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-18I (bg)**	**-0.09033**	**-116**	**-98**	**Yes**	**23**	**21.74**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-18S (bg)	-0.1025	-92	-98	No	23	8.696	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-20S (bg)	0	66	98	No	23	73.91	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-21I (bg)	-0.1633	-78	-98	No	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-39 (bg)**	**-2.451**	**-142**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**YGWA-40 (bg)**	**-5.801**	**-141**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-4I (bg)	0.04104	35	98	No	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-5D (bg)**	**-2.152**	**-197**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**YGWA-5I (bg)**	**0.0842**	**177**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**GWA-2 (bg)**	**9.755**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-14S (bg)	0	4	98	No	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-1D (bg)**	**0.8848**	**191**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-1I (bg)	-0.0608	-23	-98	No	23	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-2I (bg)**	**1.44**	**132**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWA-30I (bg)	-0.05021	-71	-98	No	23	8.696	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**YGWA-3D (bg)**	**0.2355**	**132**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**YGWA-3I (bg)**	**0.8717**	**133**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	YGWC-46A	-17.44	-71	-105	No	24	4.167	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**YGWA-47 (bg)**	**-9.336**	**-108**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	YGWC-44	-2.41	-31	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-45	1.317	22	81	No	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-17S (bg)	1.977	61	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18I (bg)	0	0	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18S (bg)	1.351	37	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-20S (bg)	3.147	79	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**YGWA-21I (bg)**	**9.422**	**118**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**YGWA-39 (bg)**	**25.35**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	YGWA-40 (bg)	-4.535	-52	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-4I (bg)	2.511	47	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-5D (bg)	-6.667	-55	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-5I (bg)	0.3453	16	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GWA-2 (bg)	12.15	73	81	No	20	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-14S (bg)	1.387	58	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1D (bg)	3.259	87	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1I (bg)	0.5267	11	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-2I (bg)	0.4303	17	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-30I (bg)	1.995	62	98	No	23	8.696	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3D (bg)	3.614	60	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3I (bg)	3.381	54	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-46A	-4.791	-7	-105	No	24	0	n/a	0.01	NP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.0002753 units per year.

Mann-Kendall statistic = -20
critical = -81

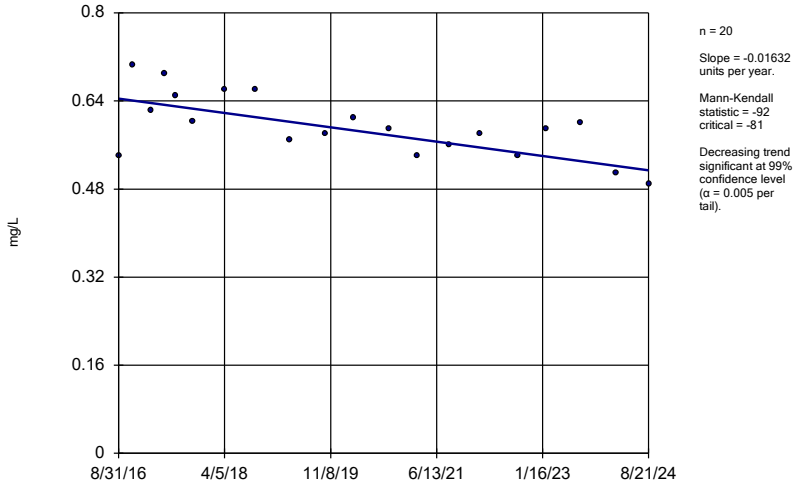
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-44



n = 20

Slope = -0.01632 units per year.

Mann-Kendall statistic = -92
critical = -81

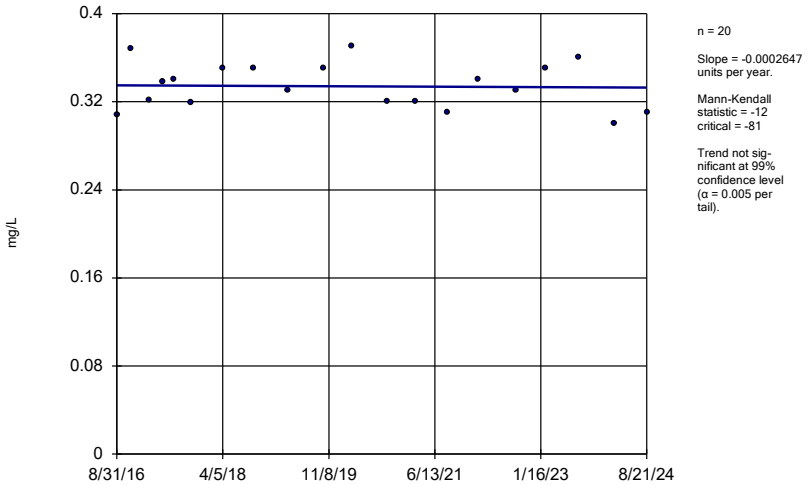
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-45



n = 20

Slope = -0.0002647 units per year.

Mann-Kendall statistic = -12
critical = -81

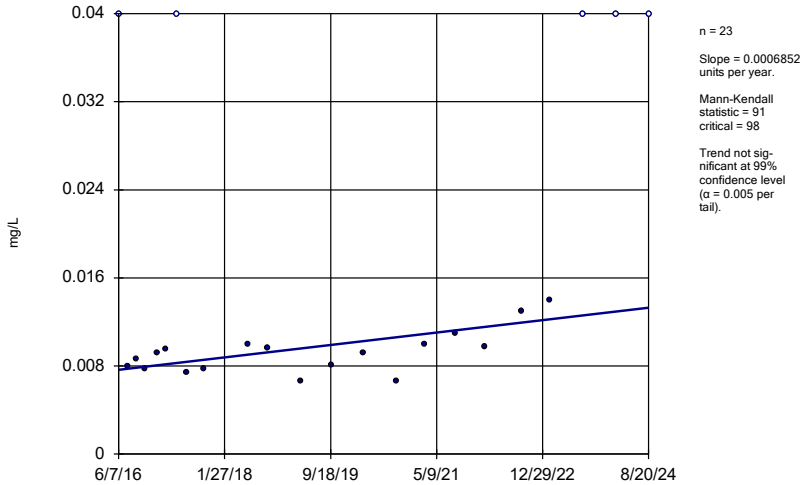
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.0006852 units per year.

Mann-Kendall statistic = 91
critical = 98

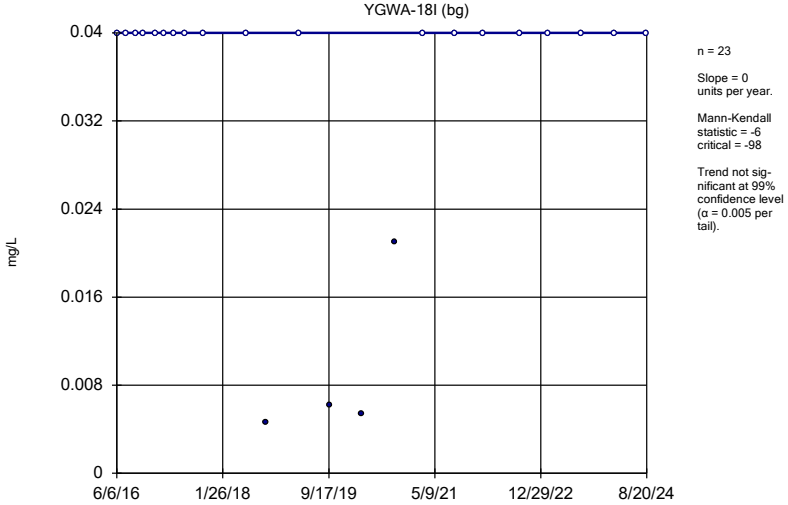
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -98

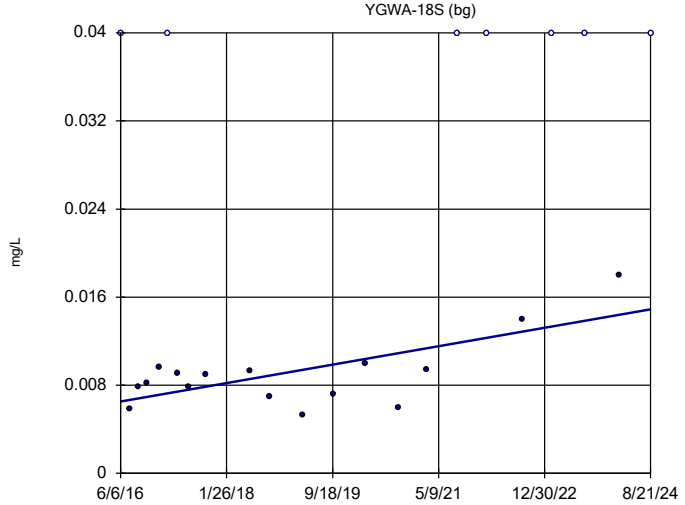
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = 0.001019 units per year.

Mann-Kendall statistic = 79
critical = 98

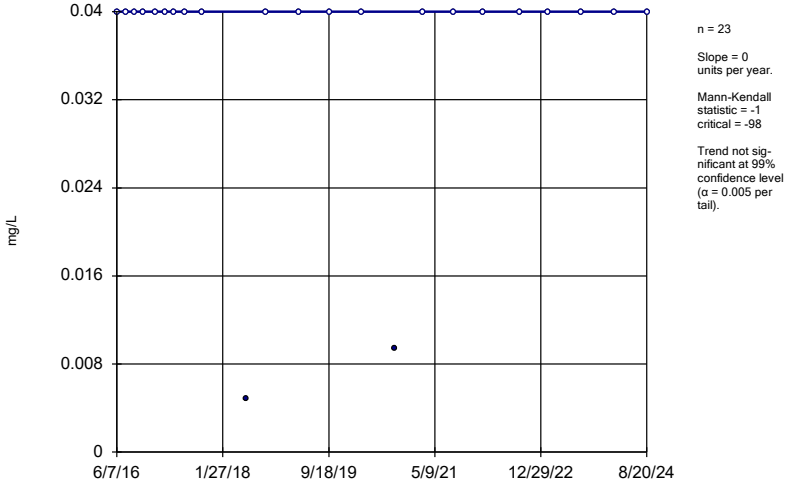
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -98

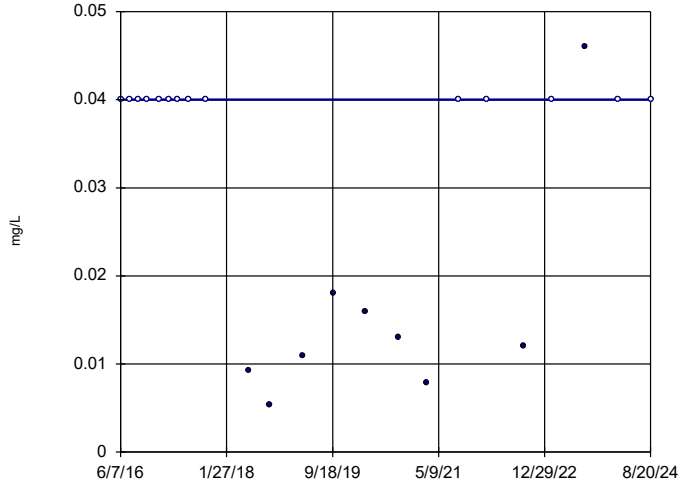
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -98

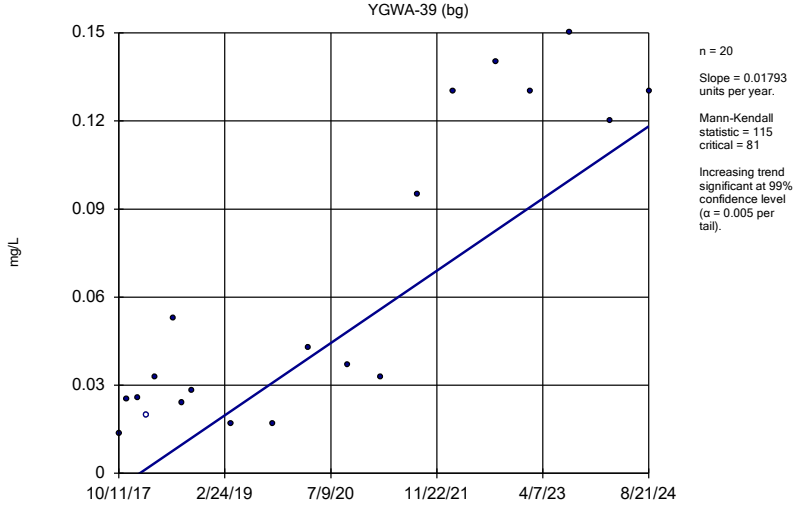
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 0.01793 units per year.

Mann-Kendall statistic = 115 critical = 81

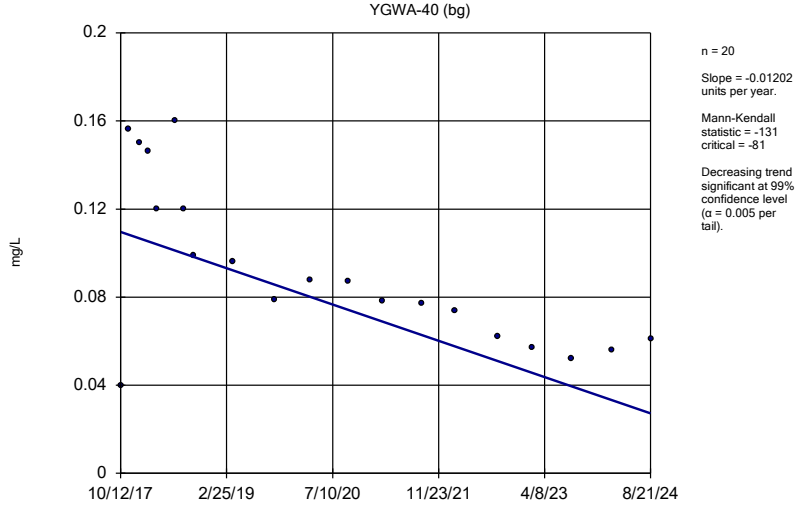
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -0.01202 units per year.

Mann-Kendall statistic = -131 critical = -81

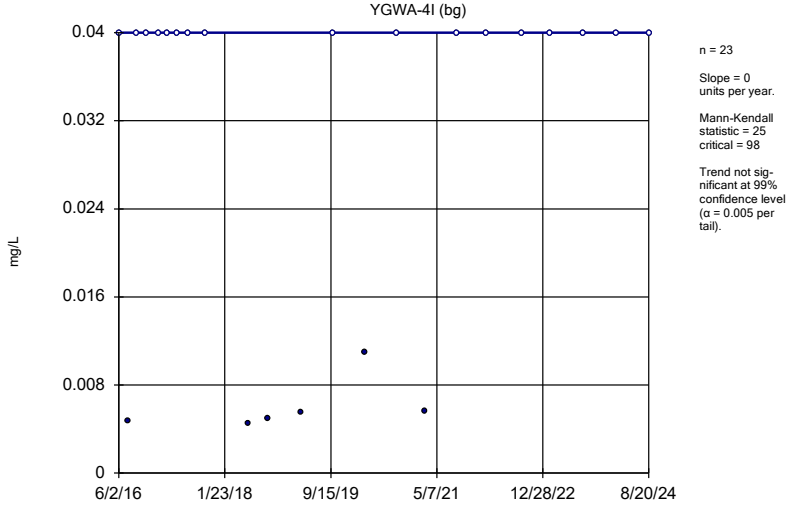
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 25 critical = 98

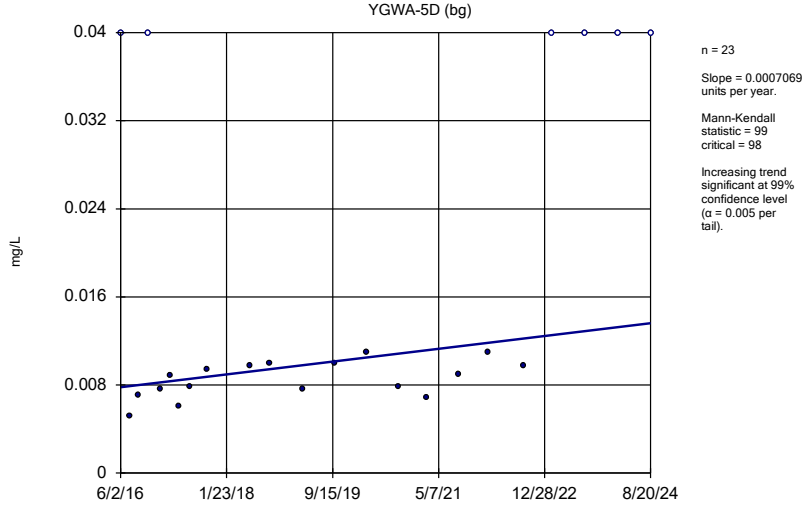
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = 0.0007069 units per year.

Mann-Kendall statistic = 99 critical = 98

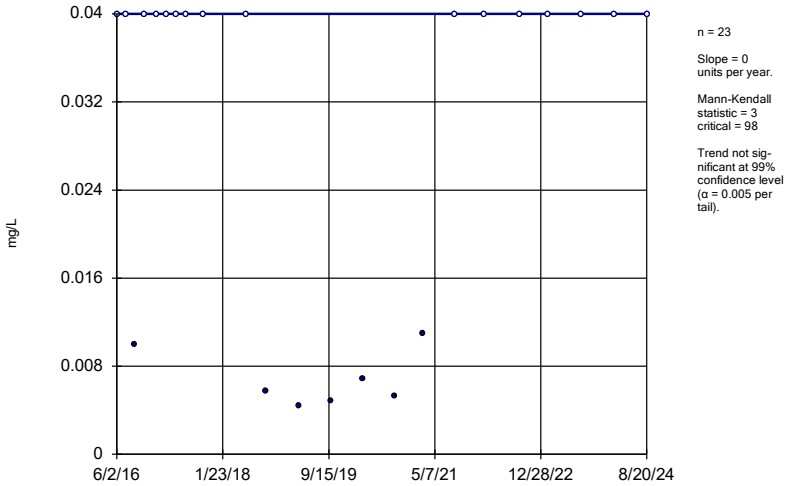
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 98

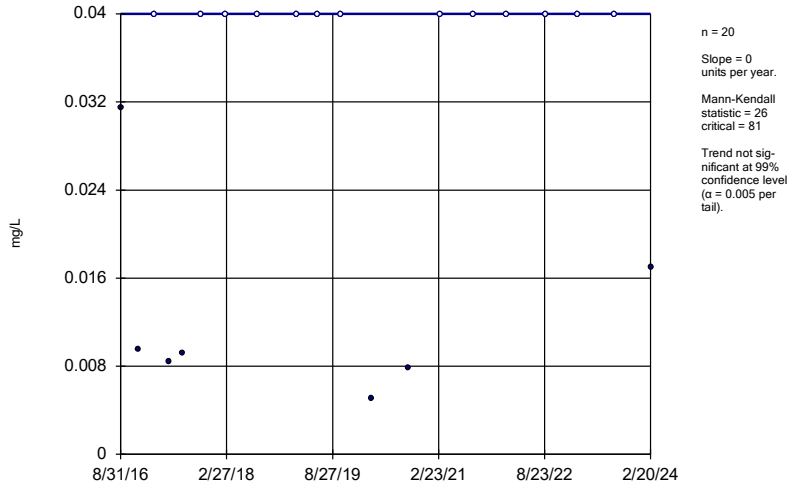
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 26
critical = 81

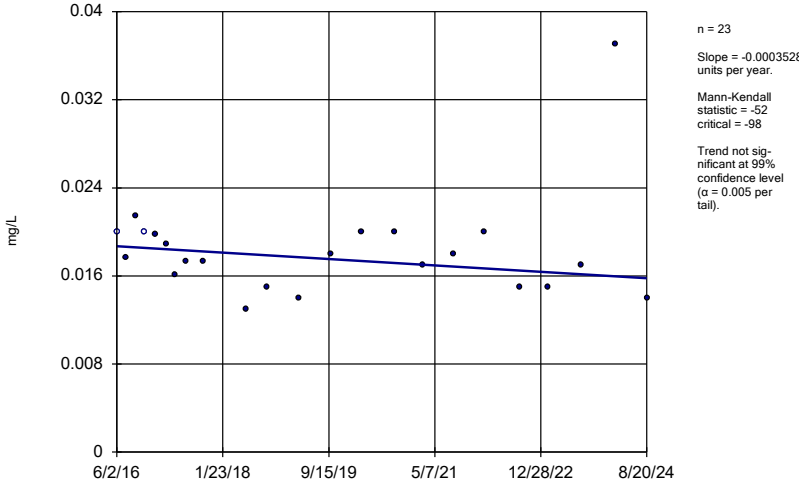
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = -0.0003528 units per year.

Mann-Kendall statistic = -52
critical = -98

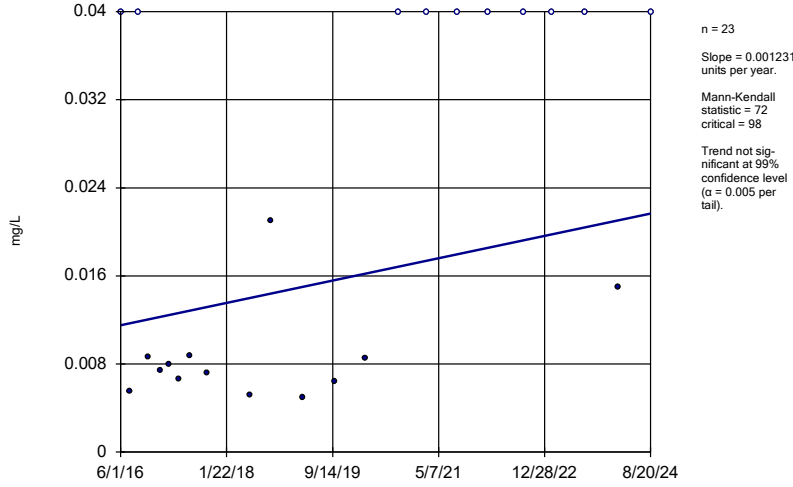
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.001231 units per year.

Mann-Kendall statistic = 72
critical = 98

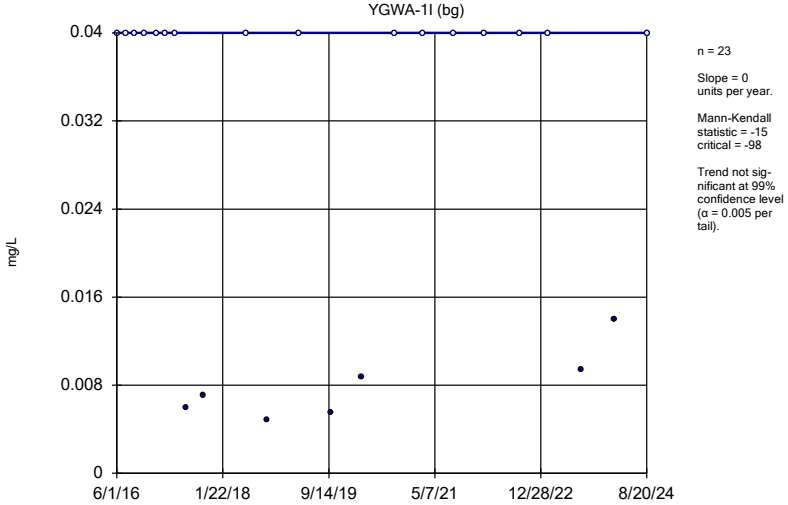
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -98

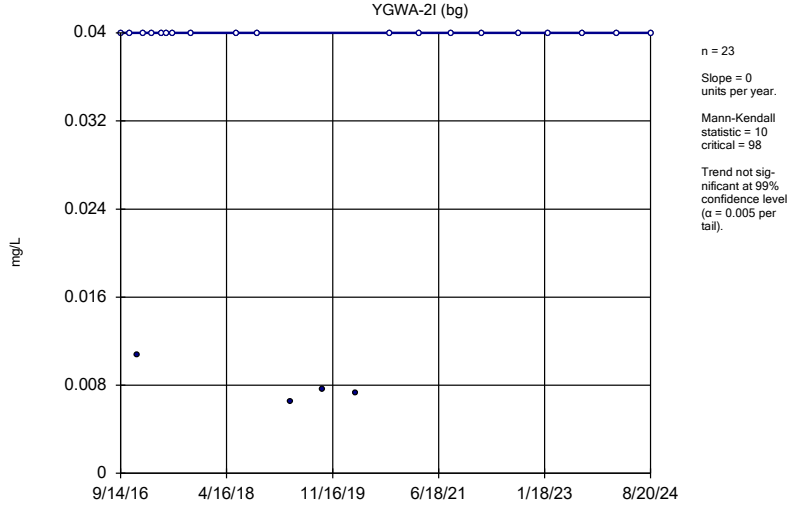
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 10
critical = 98

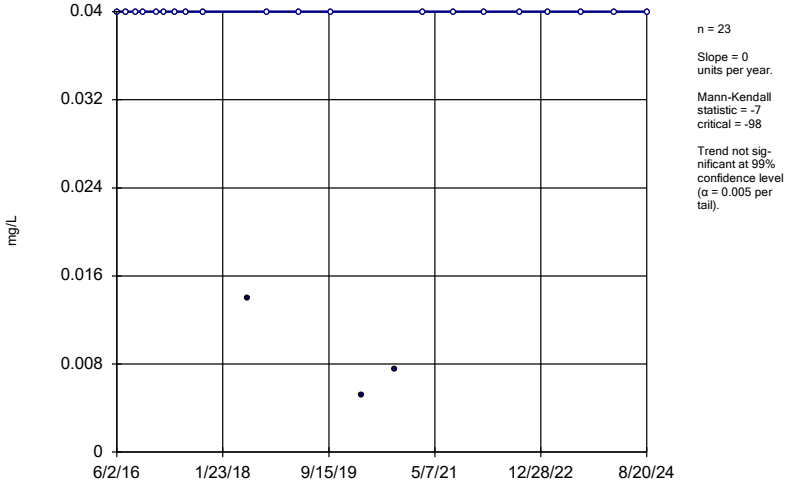
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -98

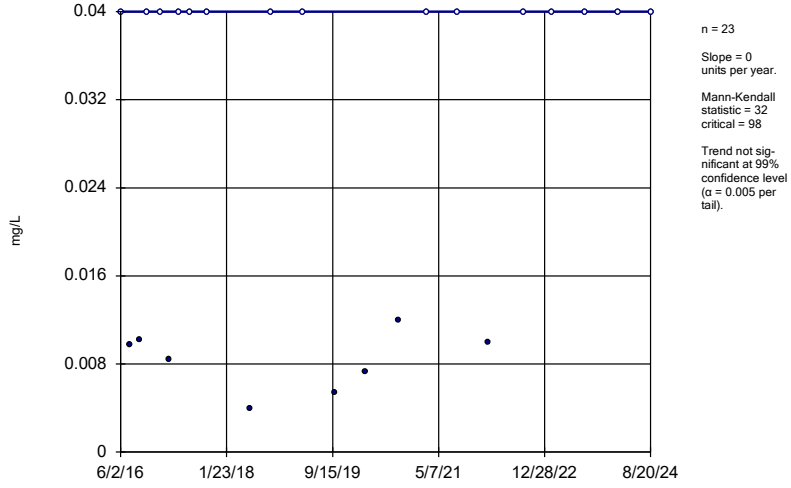
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 32
critical = 98

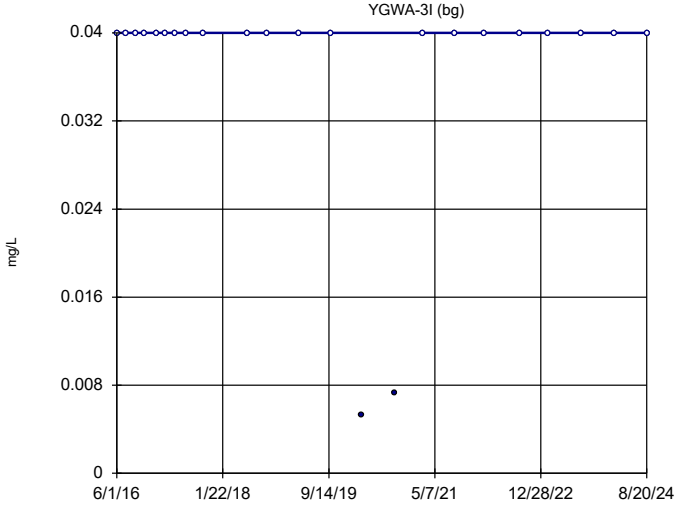
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -9
critical = -98

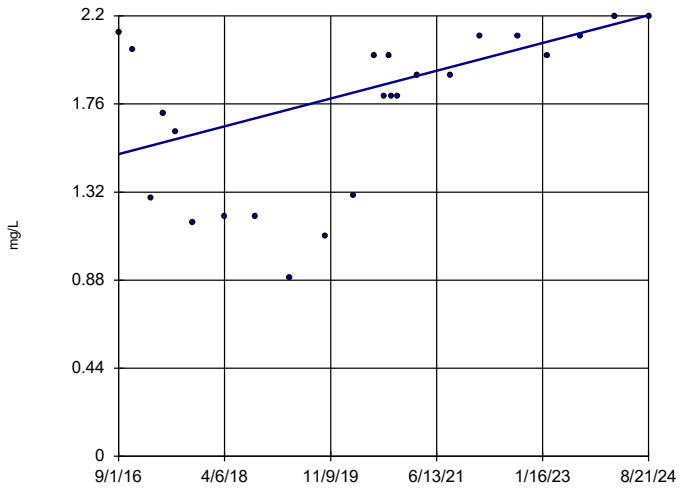
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-46A



n = 24

Slope = 0.08703 units per year.

Mann-Kendall statistic = 118
critical = 105

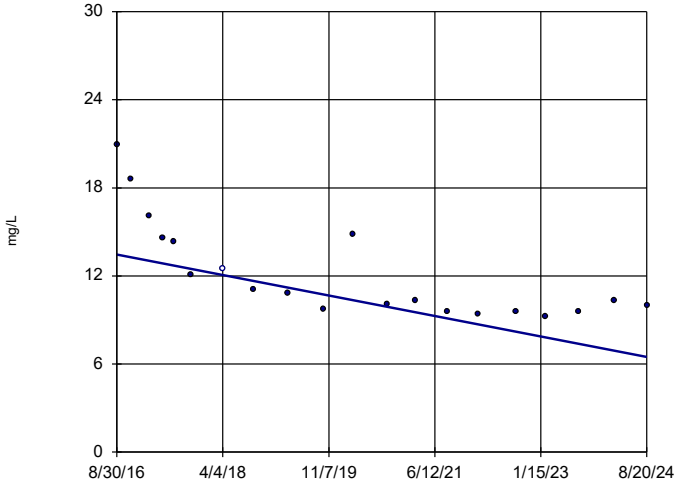
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.8737 units per year.

Mann-Kendall statistic = -132
critical = -81

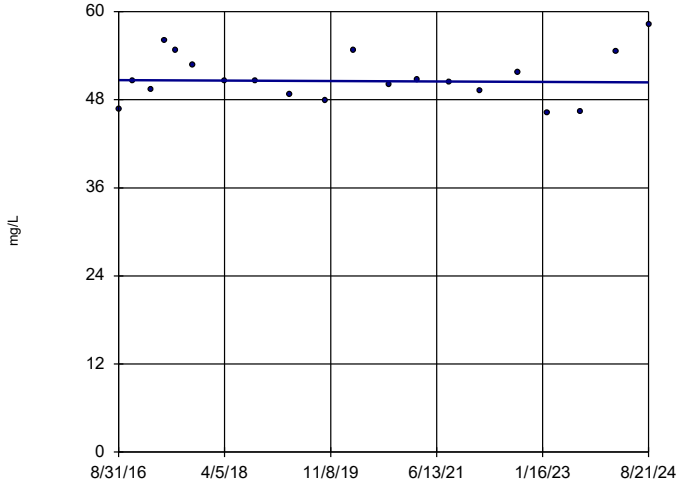
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-45



n = 20

Slope = -0.03813 units per year.

Mann-Kendall statistic = -6
critical = -81

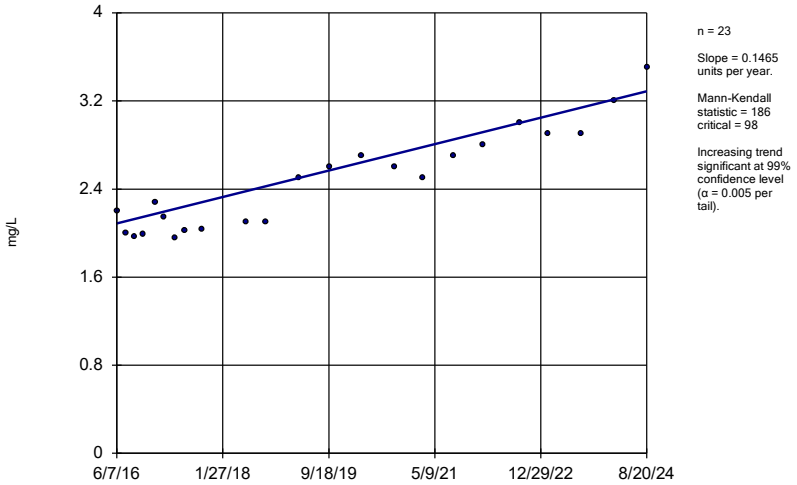
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.1465 units per year.

Mann-Kendall statistic = 186 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

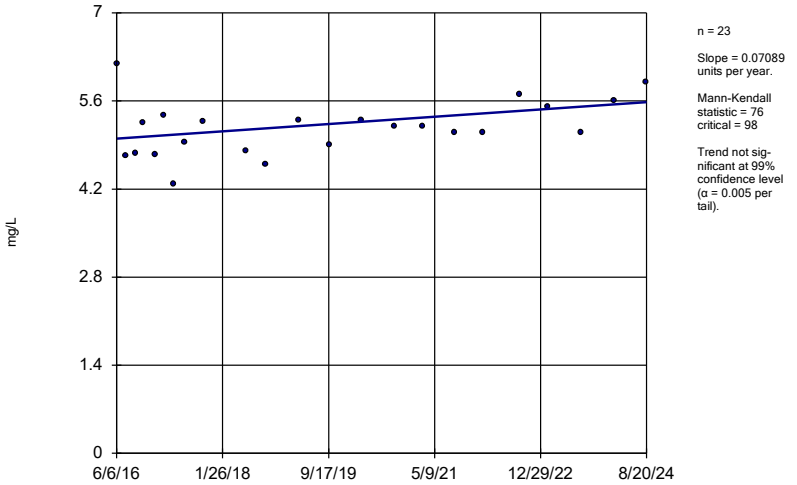
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0.07089 units per year.

Mann-Kendall statistic = 76 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

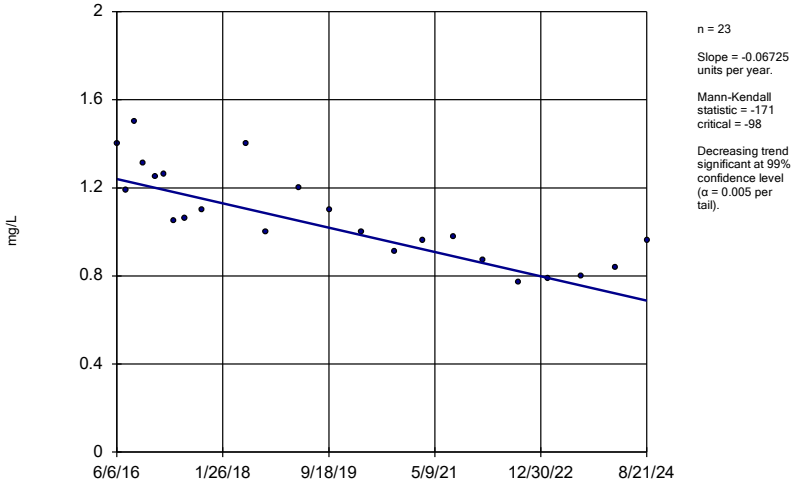
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = -0.06725 units per year.

Mann-Kendall statistic = -171 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

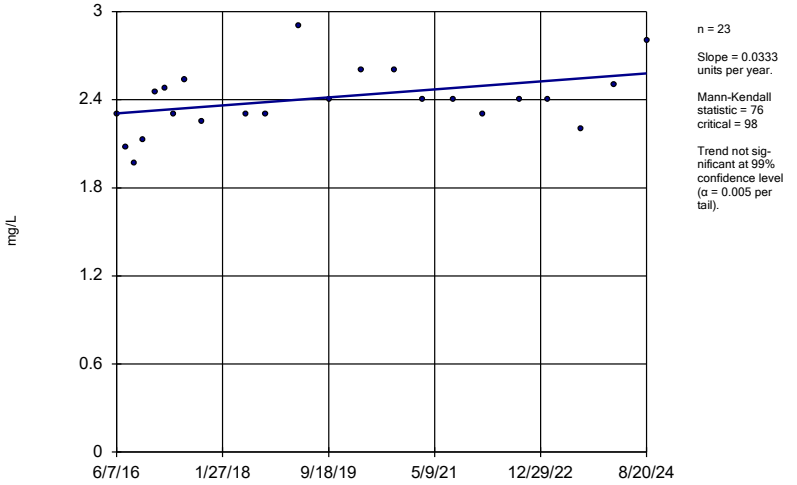
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0.0333 units per year.

Mann-Kendall statistic = 76 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

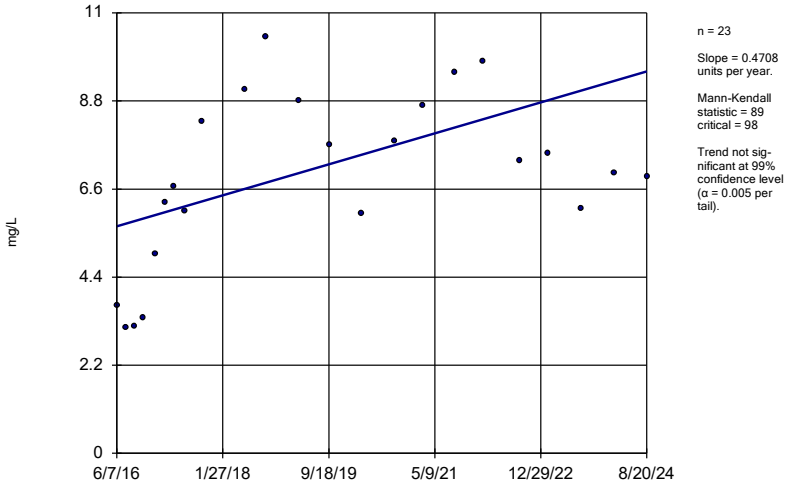
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 0.4708 units per year.

Mann-Kendall statistic = 89 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

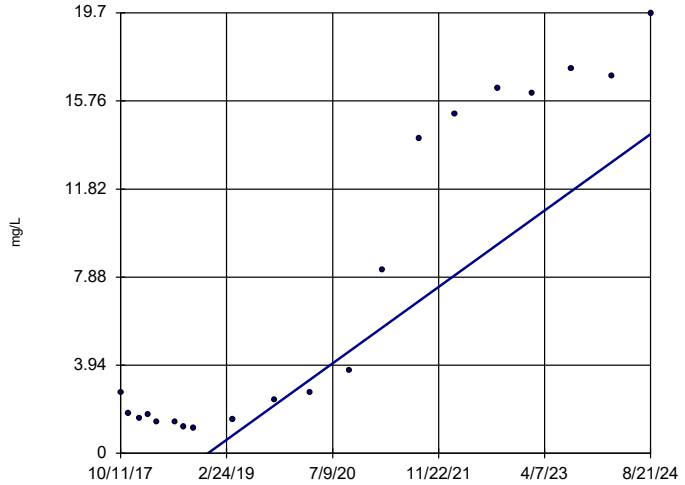
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 2.49 units per year.

Mann-Kendall statistic = 121 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

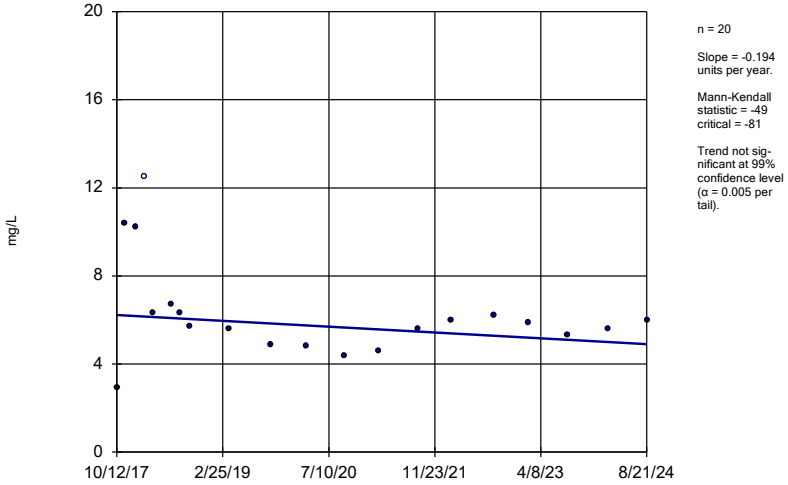
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -0.194 units per year.

Mann-Kendall statistic = -49 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

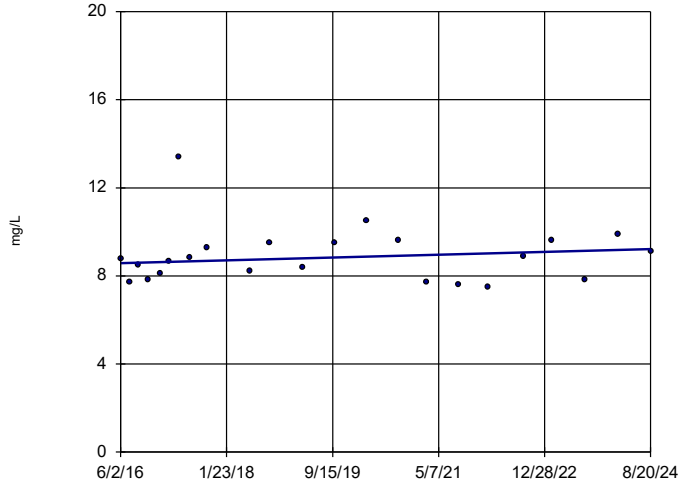
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0.07686 units per year.

Mann-Kendall statistic = 35 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

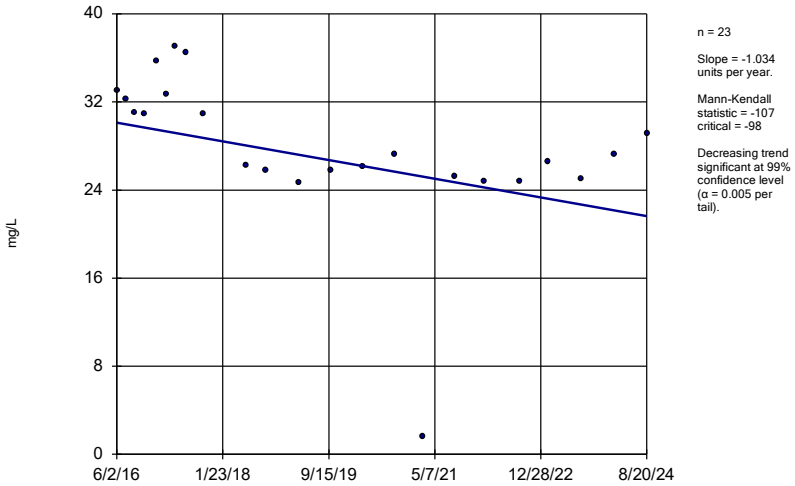
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -1.034 units per year.

Mann-Kendall statistic = -107 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

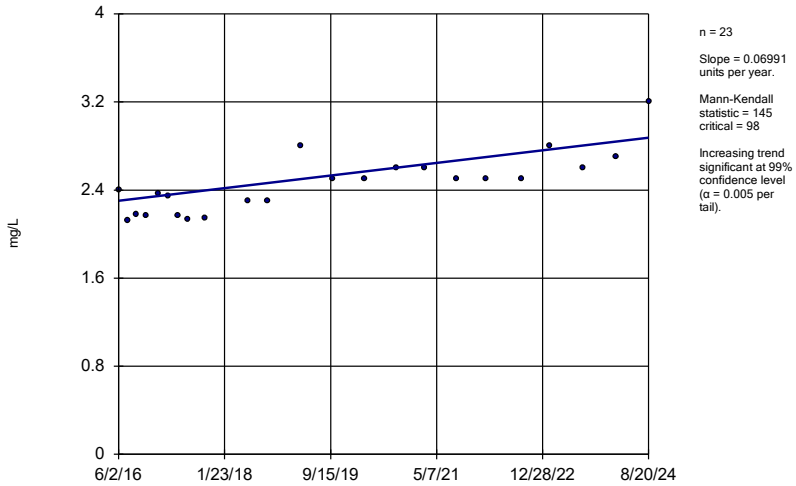
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.06991 units per year.

Mann-Kendall statistic = 145 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

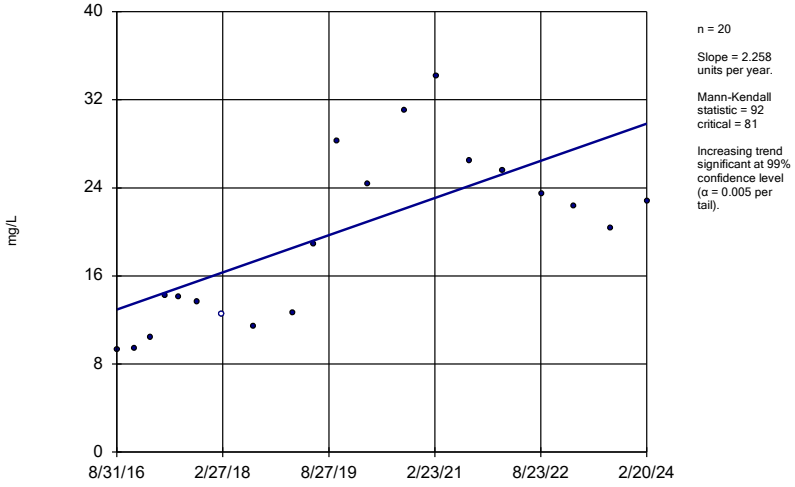
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 2.258 units per year.

Mann-Kendall statistic = 92 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

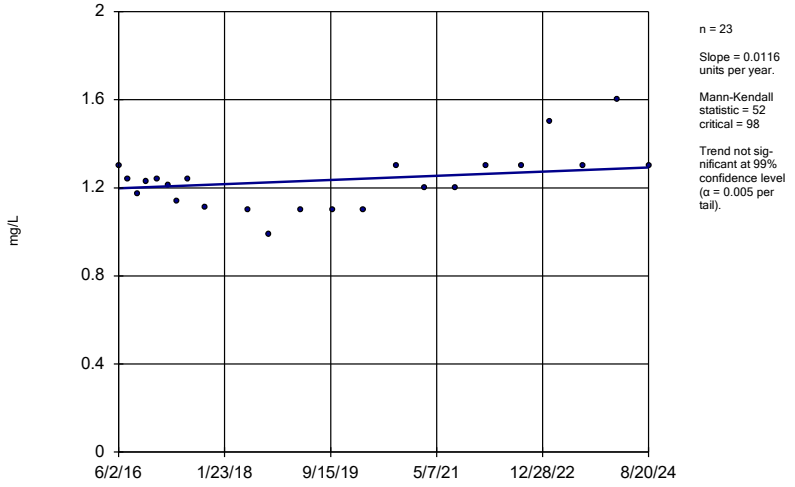
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = 0.0116 units per year.

Mann-Kendall statistic = 52 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

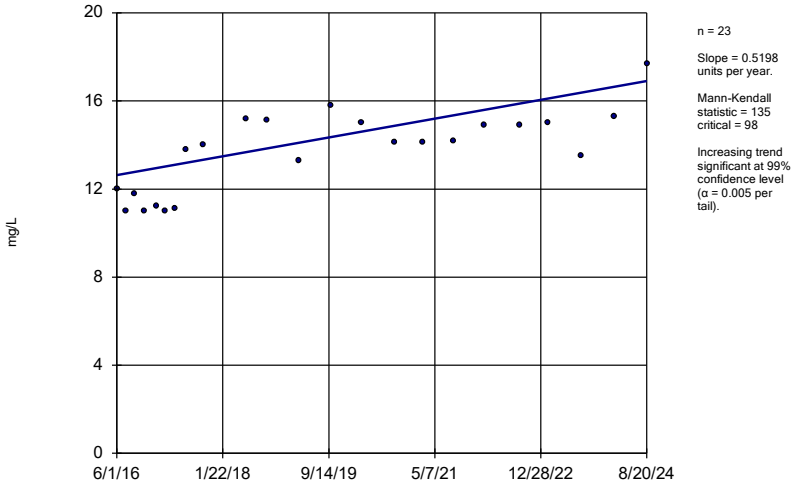
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.5198 units per year.

Mann-Kendall statistic = 135 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

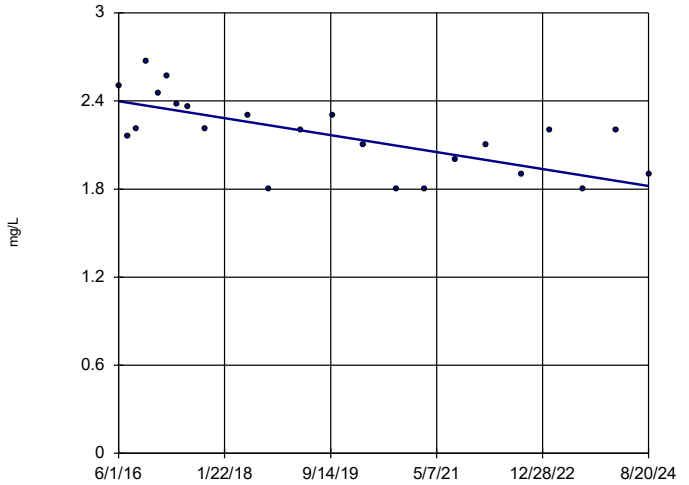
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = -0.07033 units per year.

Mann-Kendall statistic = -126 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

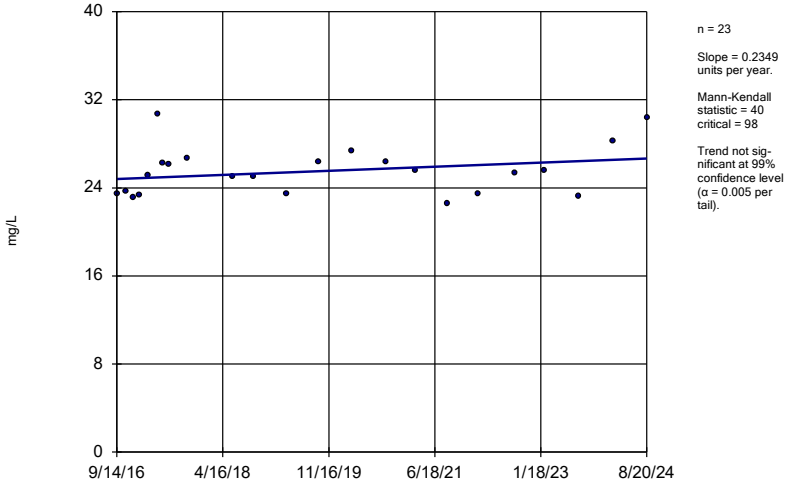
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 0.2349 units per year.

Mann-Kendall statistic = 40 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

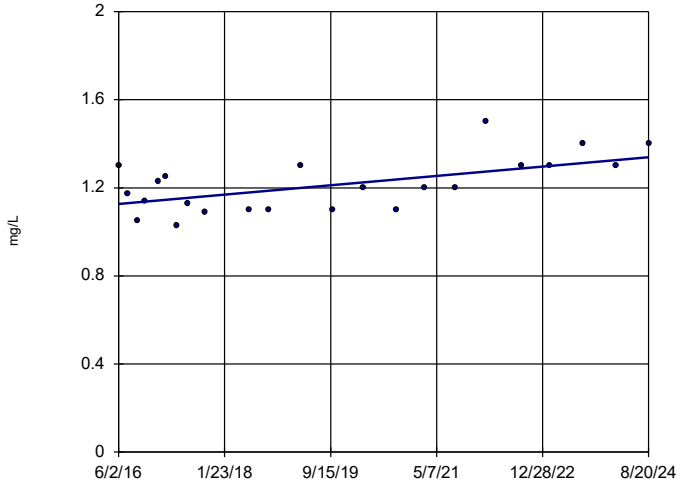
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = 0.02573 units per year.

Mann-Kendall statistic = 95 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

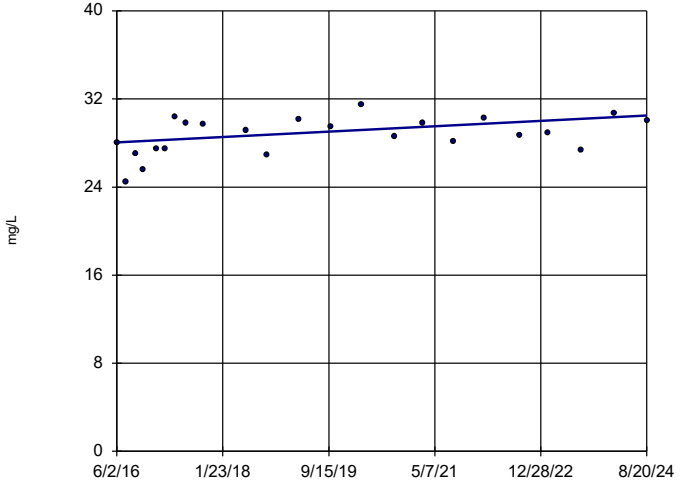
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0.2967 units per year.

Mann-Kendall statistic = 79 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

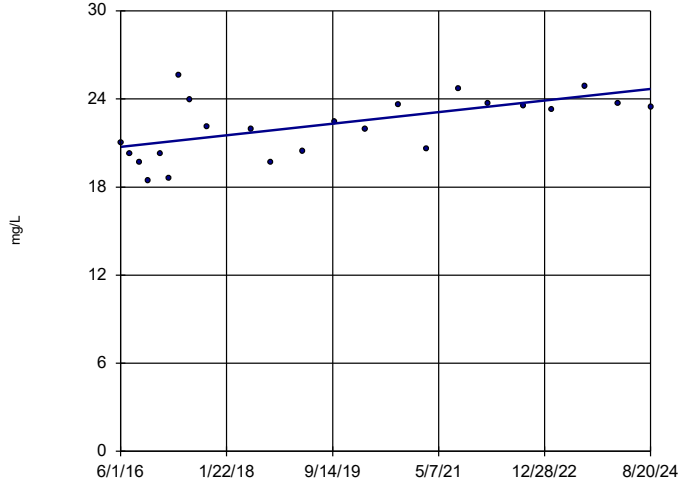
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0.478 units per year.

Mann-Kendall statistic = 103 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

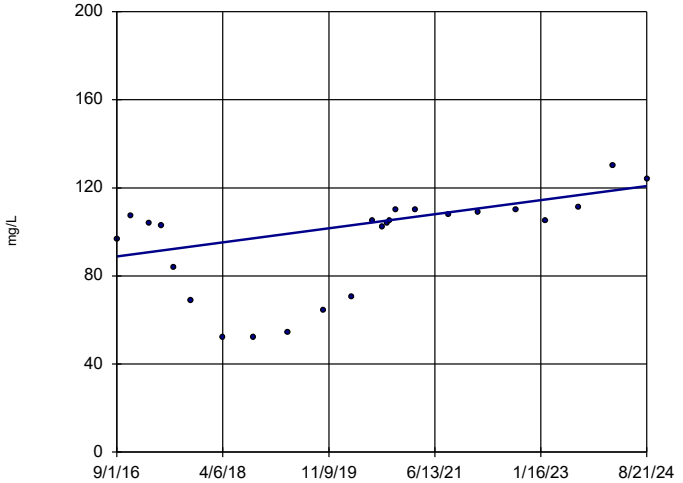
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-46A



n = 24

Slope = 4.007 units per year.

Mann-Kendall statistic = 148 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

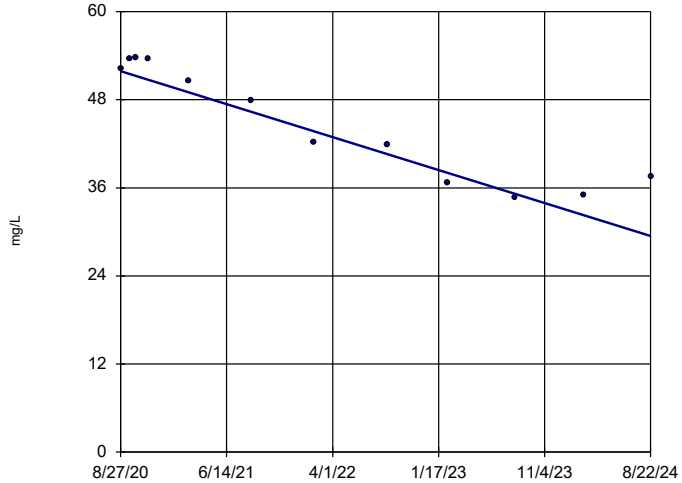
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-52



n = 12

Slope = -5.623 units per year.

Mann-Kendall statistic = -48 critical = -38

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

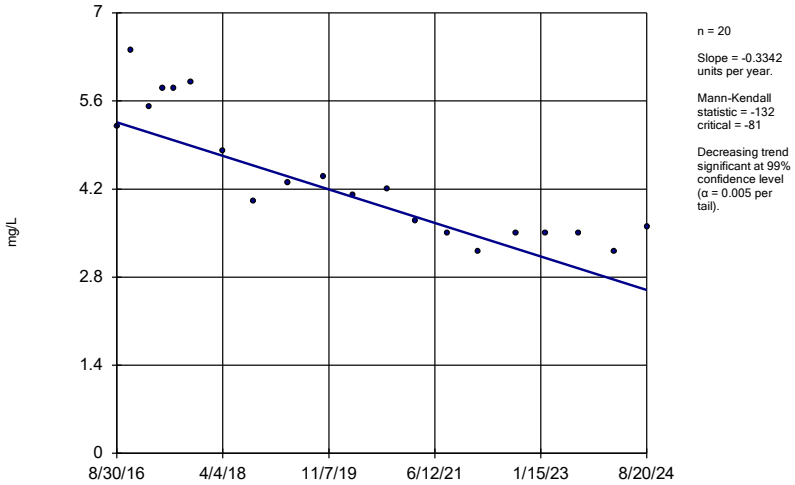
Constituent: Calcium, total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.3342 units per year.

Mann-Kendall statistic = -132 critical = -81

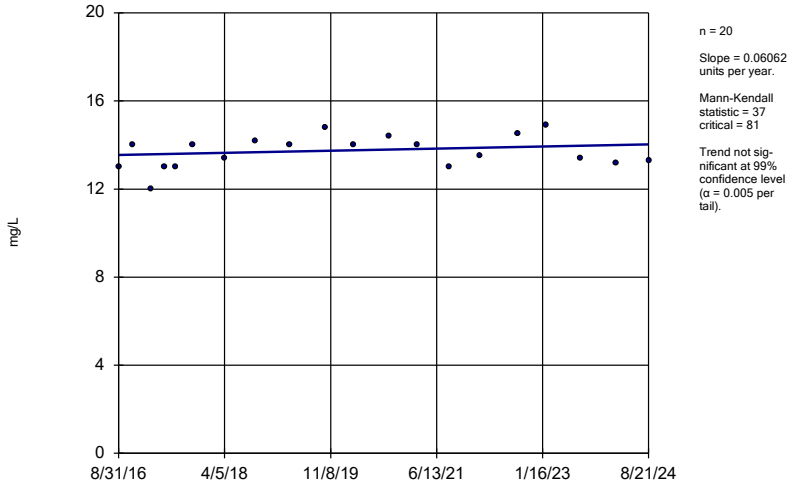
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-44



n = 20

Slope = 0.06062 units per year.

Mann-Kendall statistic = 37 critical = 81

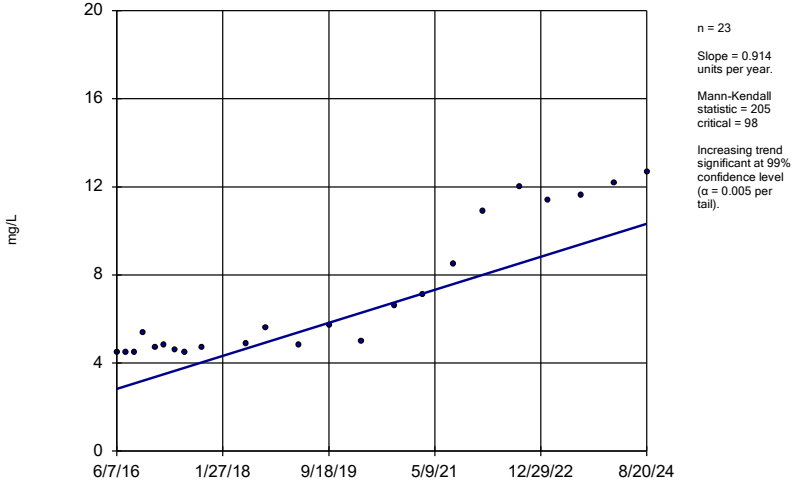
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.914 units per year.

Mann-Kendall statistic = 205 critical = 98

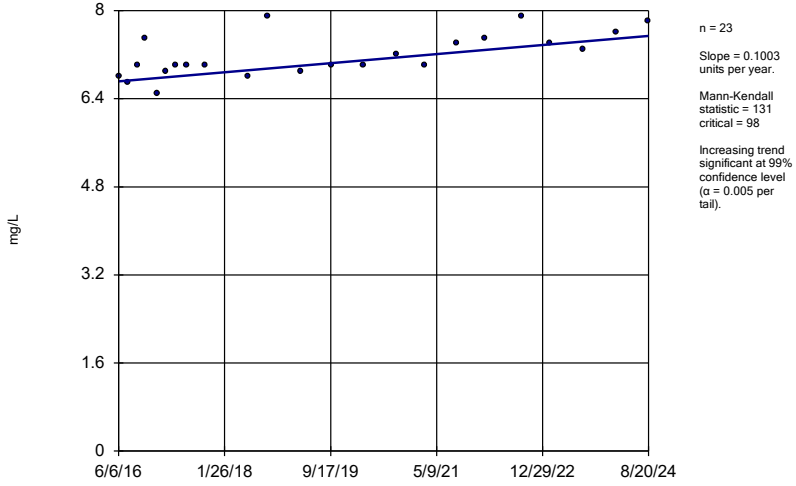
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0.1003 units per year.

Mann-Kendall statistic = 131 critical = 98

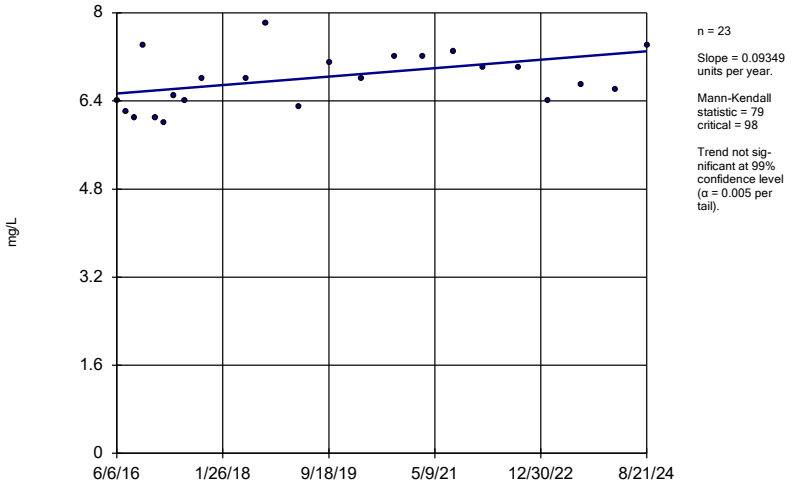
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = 0.09349 units per year.

Mann-Kendall statistic = 79 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

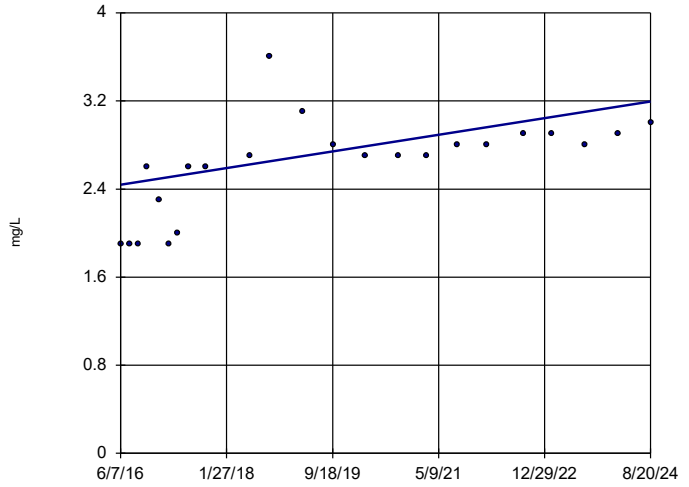
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0.09204 units per year.

Mann-Kendall statistic = 163 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

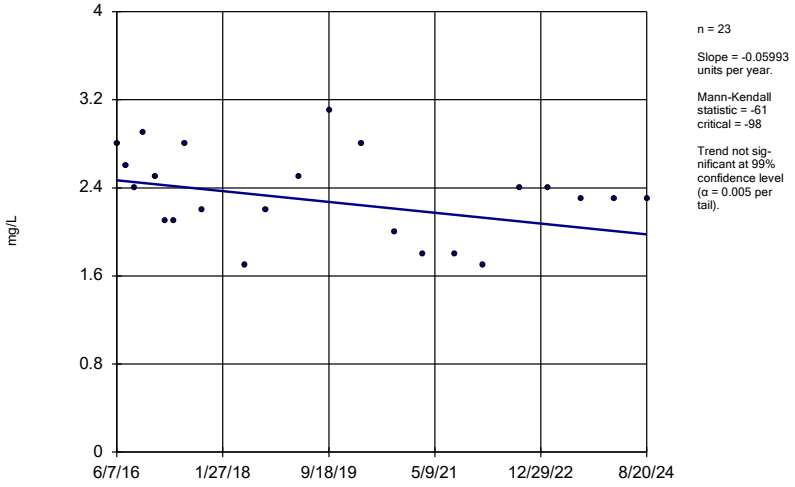
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = -0.05993 units per year.

Mann-Kendall statistic = -61 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

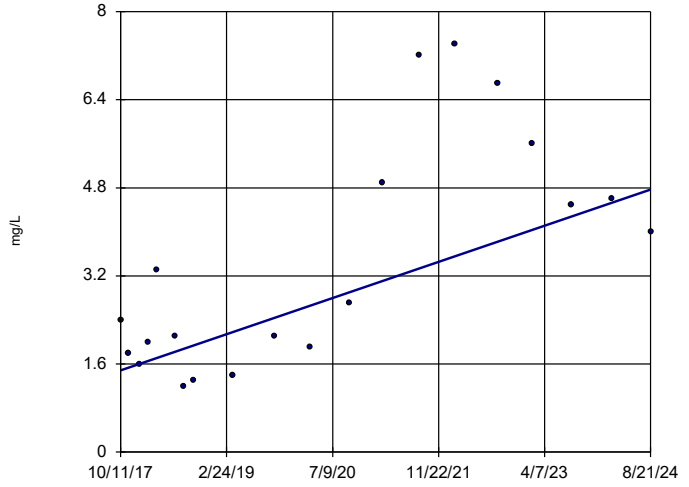
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 0.4784 units per year.

Mann-Kendall statistic = 81 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

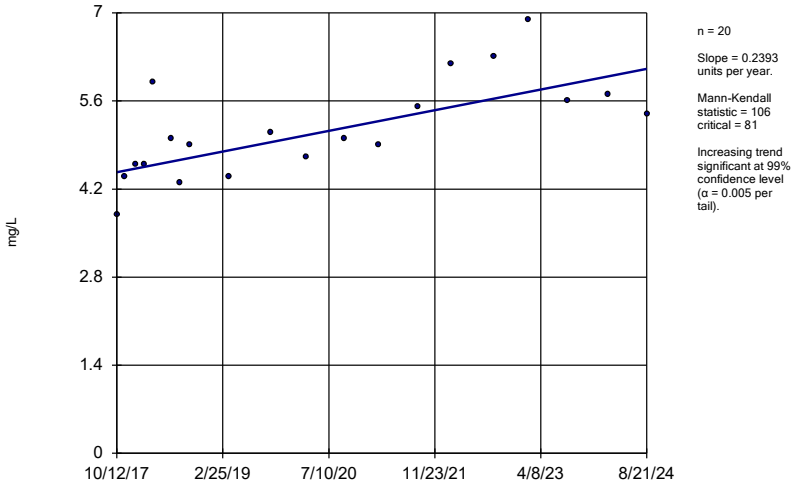
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = 0.2393 units per year.

Mann-Kendall statistic = 106 critical = 81

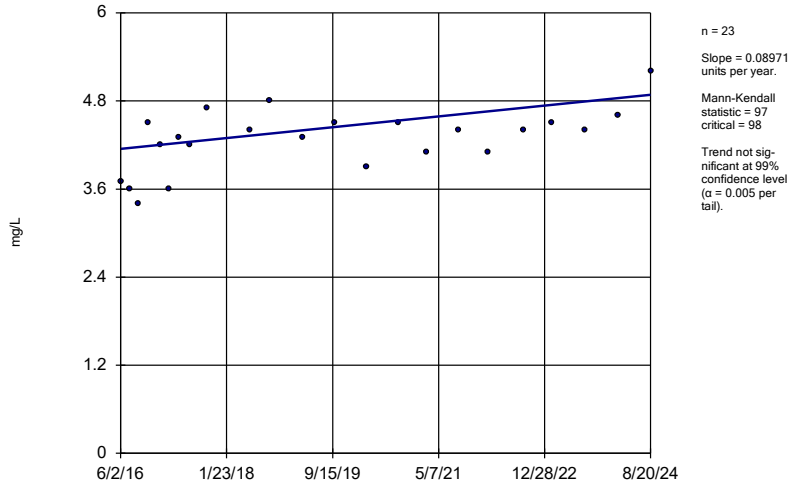
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0.08971 units per year.

Mann-Kendall statistic = 97 critical = 98

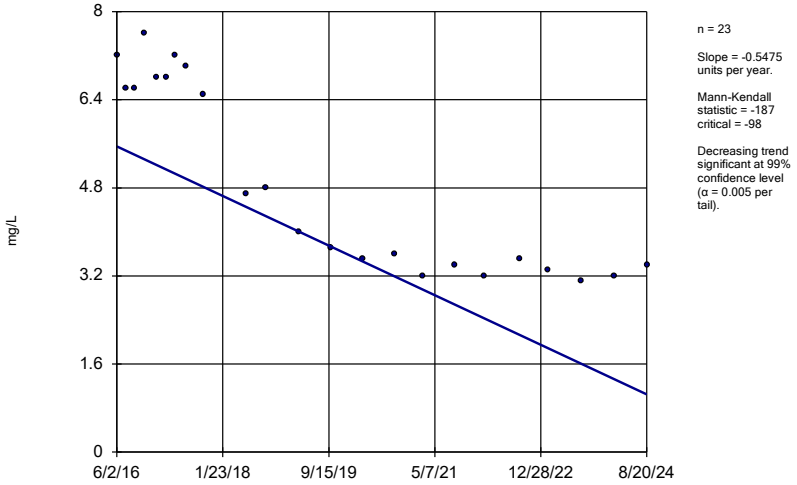
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -0.5475 units per year.

Mann-Kendall statistic = -187 critical = -98

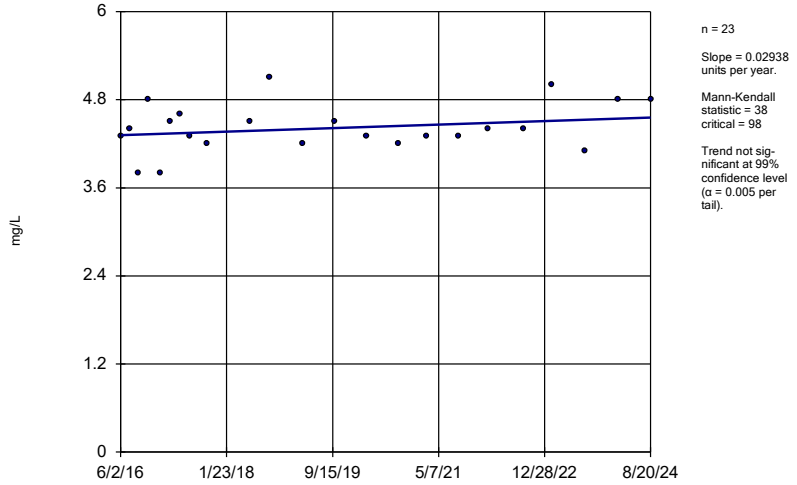
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.02938 units per year.

Mann-Kendall statistic = 38 critical = 98

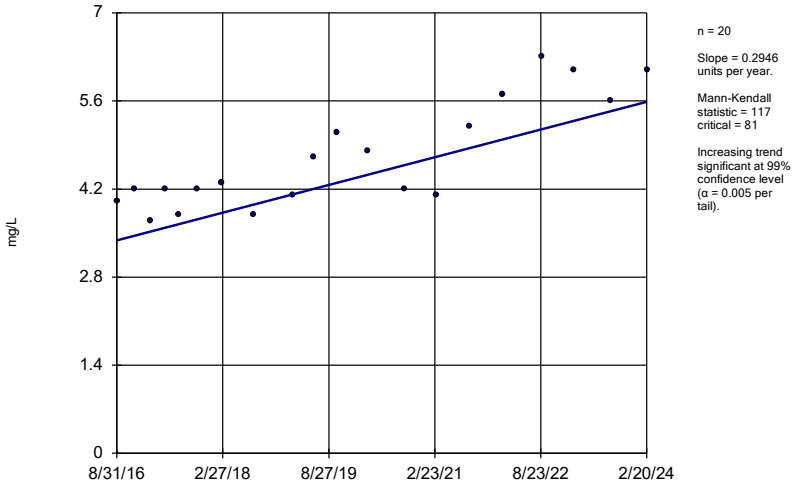
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0.2946 units per year.

Mann-Kendall statistic = 117 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

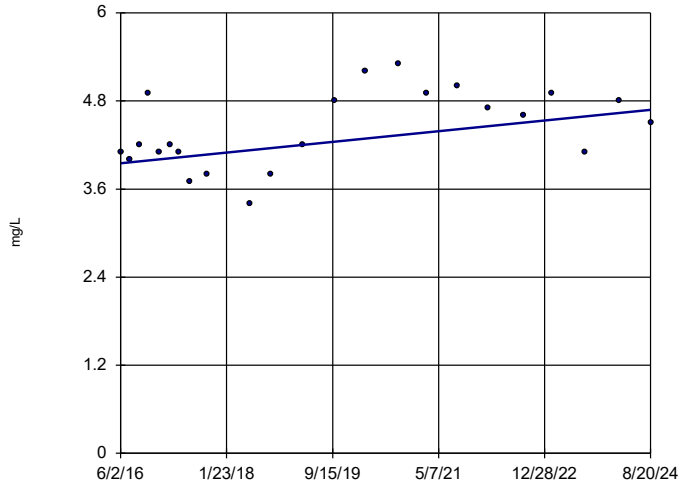
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = 0.08864 units per year.

Mann-Kendall statistic = 65 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

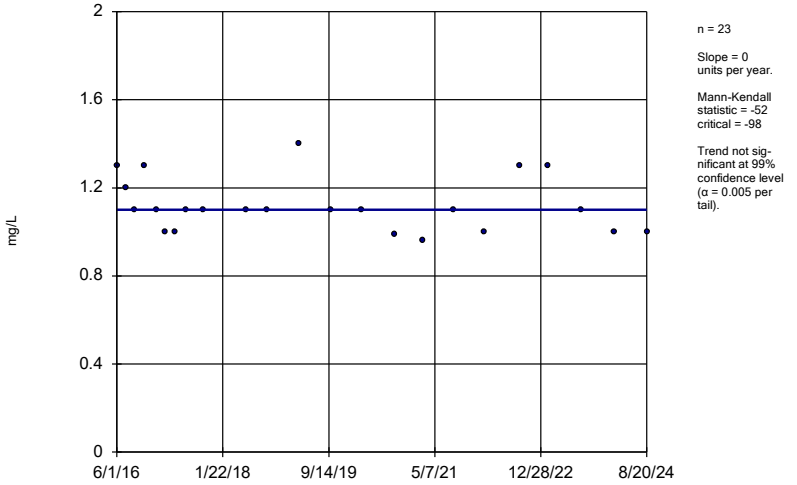
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -52 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

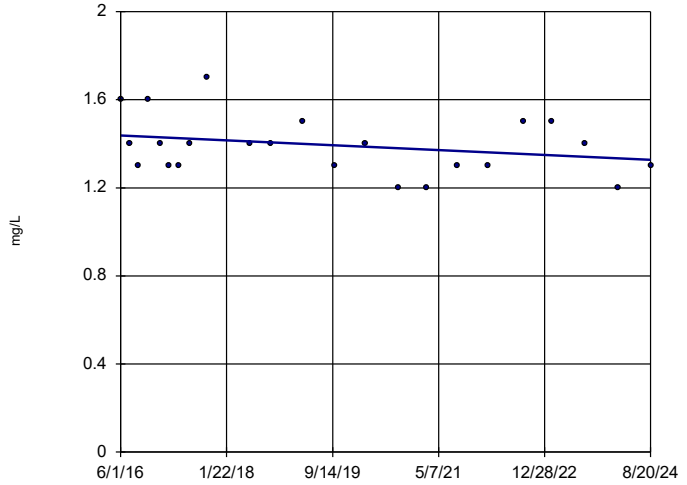
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = -0.01344 units per year.

Mann-Kendall statistic = -54 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

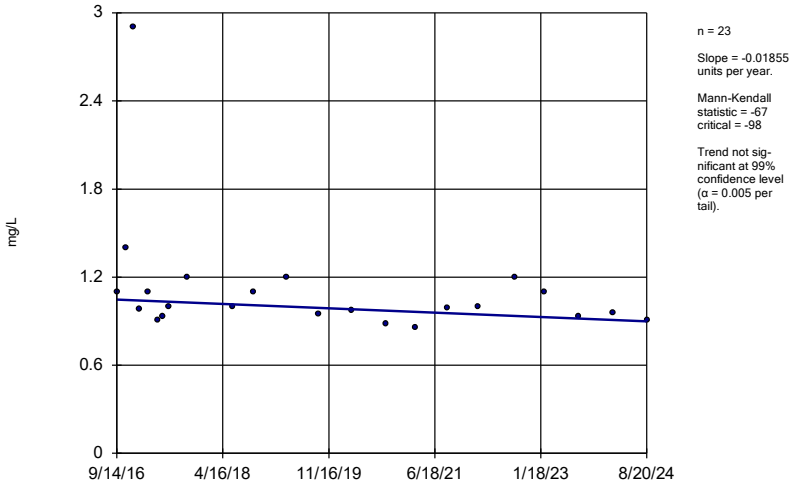
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = -0.01855 units per year.

Mann-Kendall statistic = -67 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

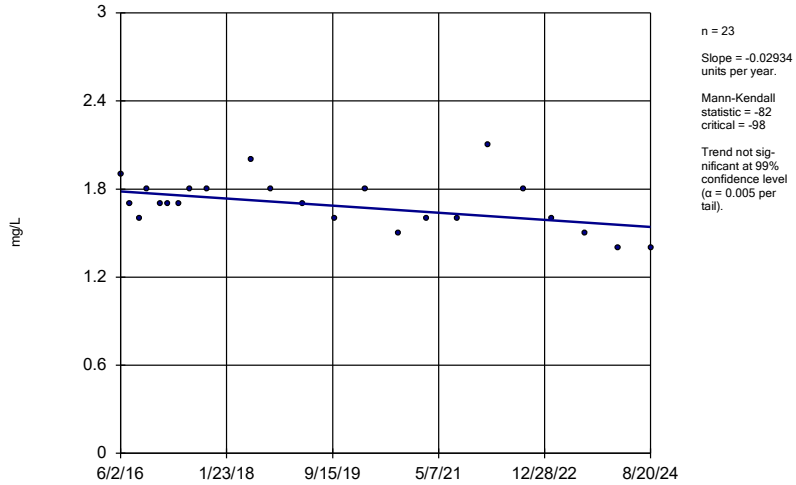
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = -0.02934 units per year.

Mann-Kendall statistic = -82 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

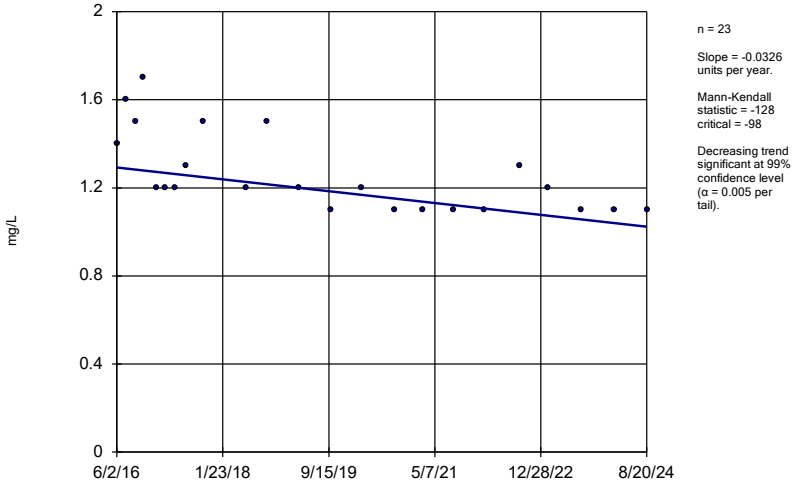
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = -0.0326 units per year.

Mann-Kendall statistic = -128 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

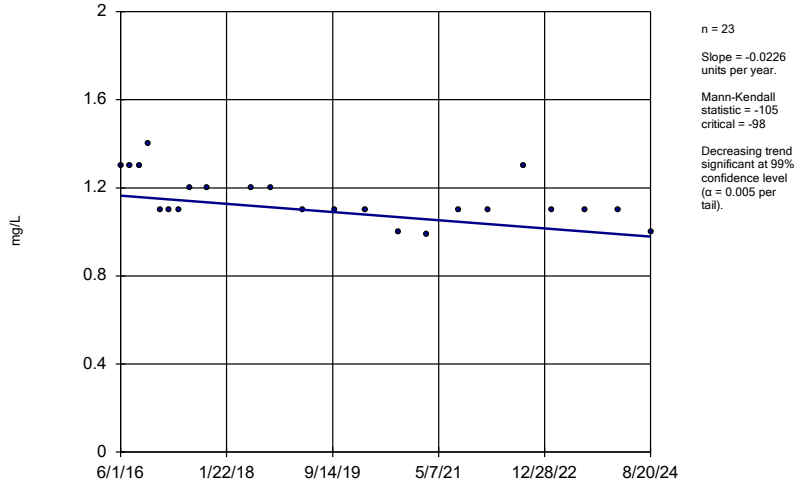
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = -0.0226 units per year.

Mann-Kendall statistic = -105 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

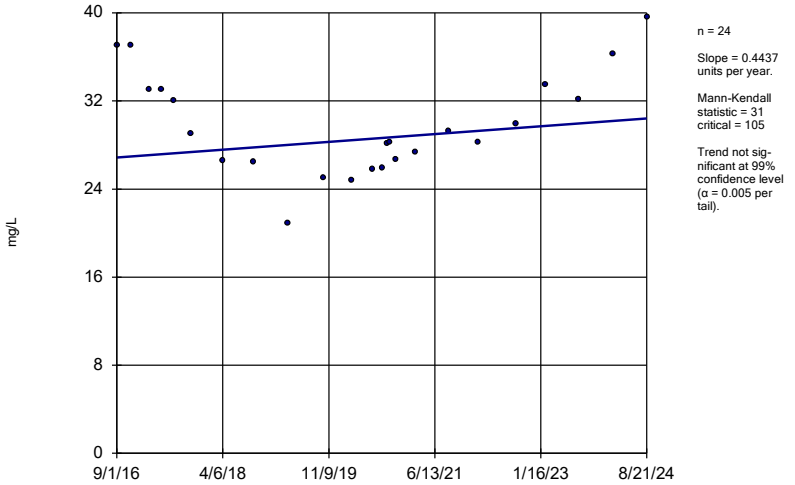
Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-46A



n = 24

Slope = 0.4437 units per year.

Mann-Kendall statistic = 31 critical = 105

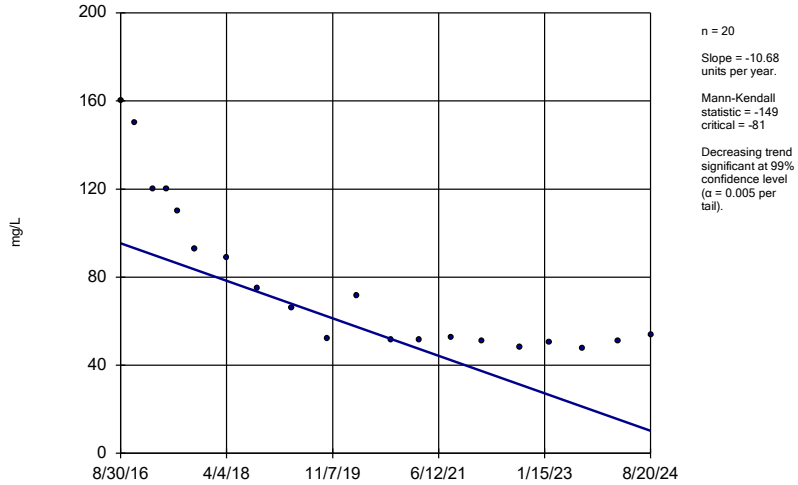
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -10.68 units per year.

Mann-Kendall statistic = -149 critical = -81

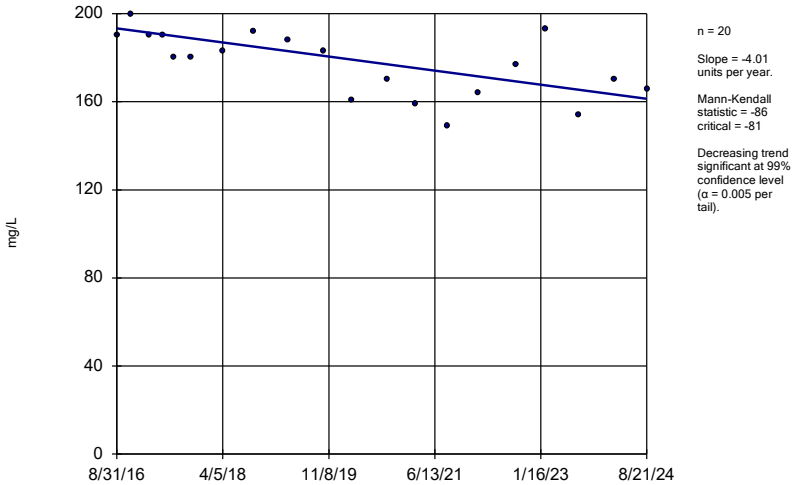
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-45



n = 20

Slope = -4.01 units per year.

Mann-Kendall statistic = -86 critical = -81

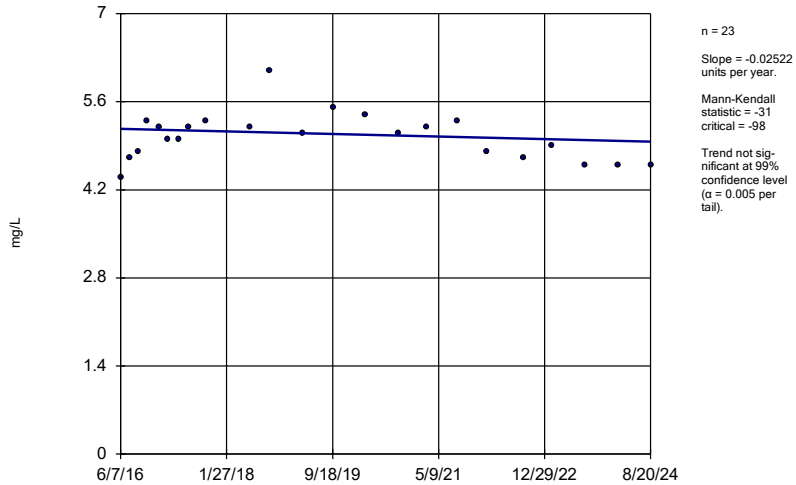
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = -0.02522 units per year.

Mann-Kendall statistic = -31 critical = -98

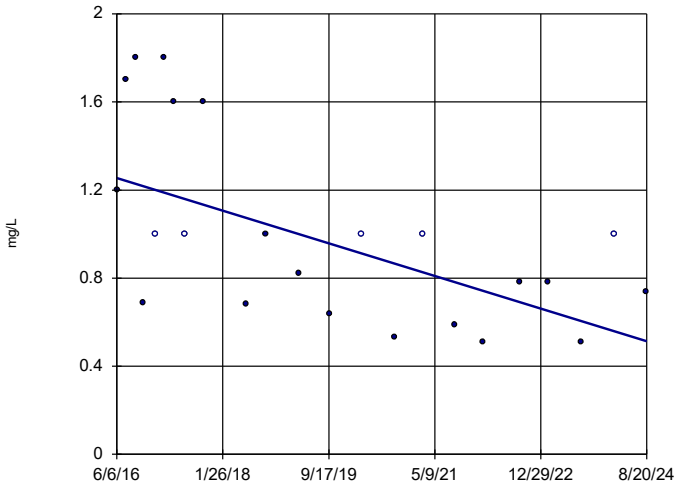
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = -0.09033 units per year.

Mann-Kendall statistic = -116
critical = -98

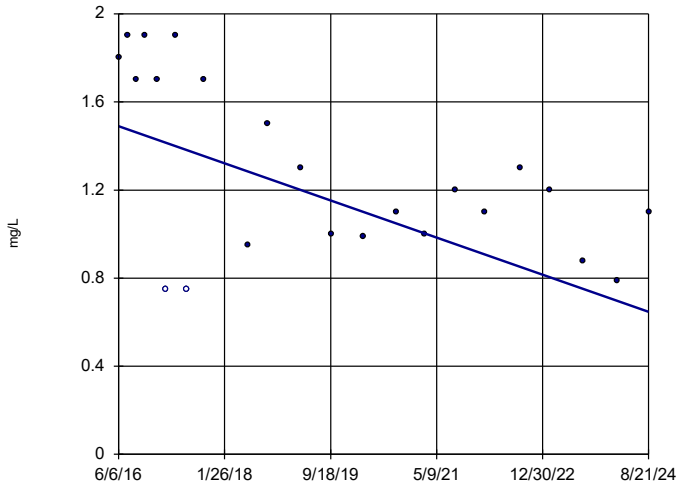
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = -0.1025 units per year.

Mann-Kendall statistic = -92
critical = -98

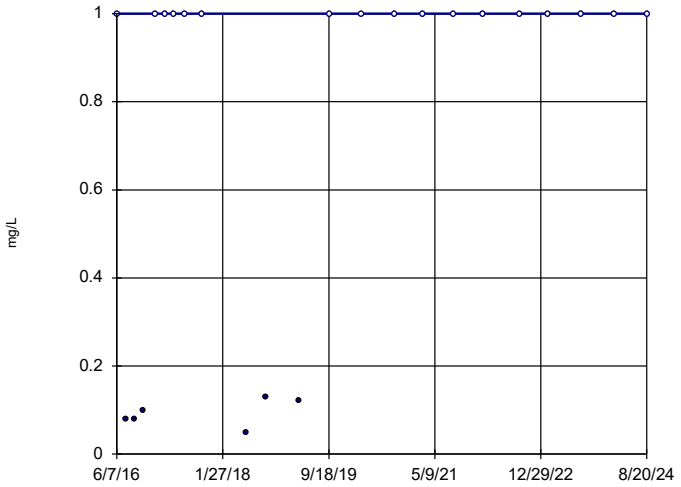
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 66
critical = 98

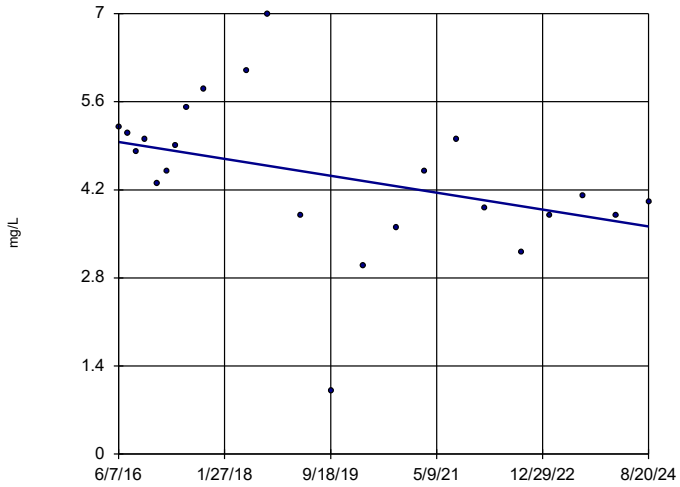
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = -0.1633 units per year.

Mann-Kendall statistic = -78
critical = -98

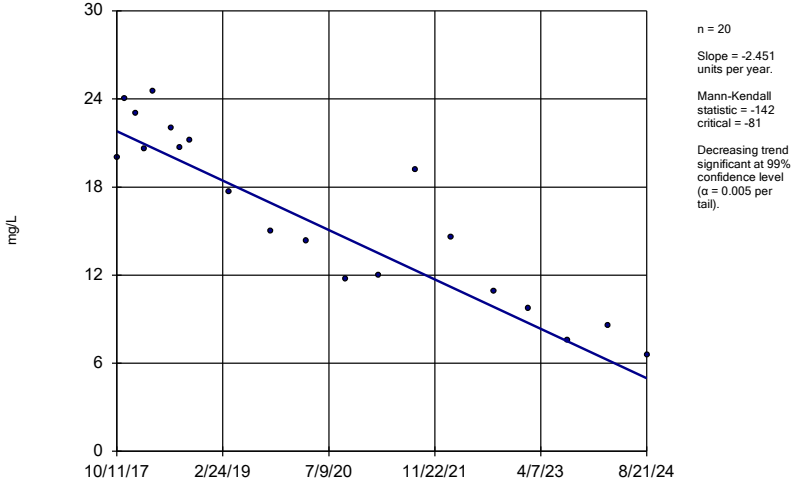
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = -2.451 units per year.

Mann-Kendall statistic = -142 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

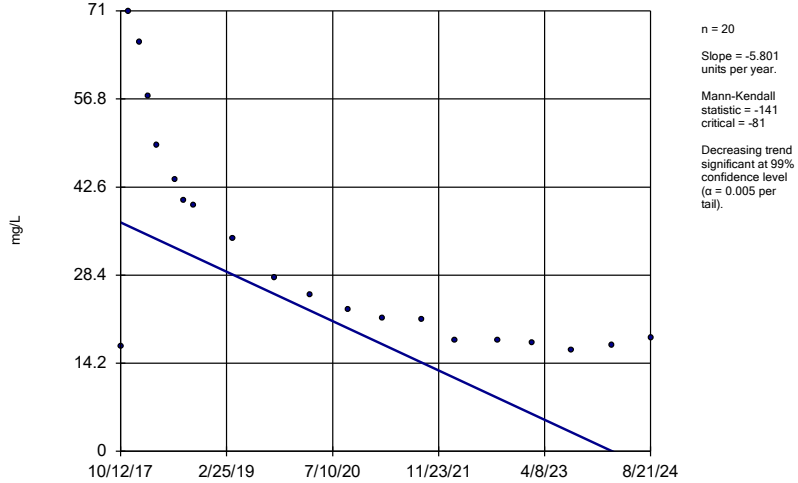
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -5.801 units per year.

Mann-Kendall statistic = -141 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

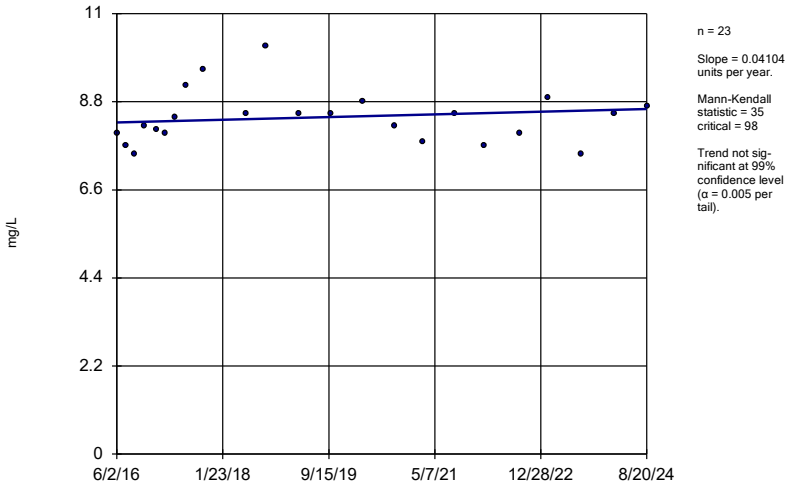
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0.04104 units per year.

Mann-Kendall statistic = 35 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

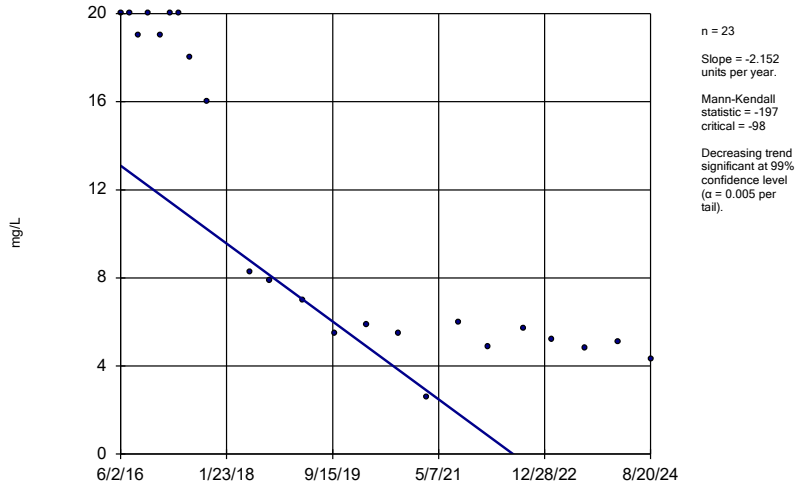
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -2.152 units per year.

Mann-Kendall statistic = -197 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

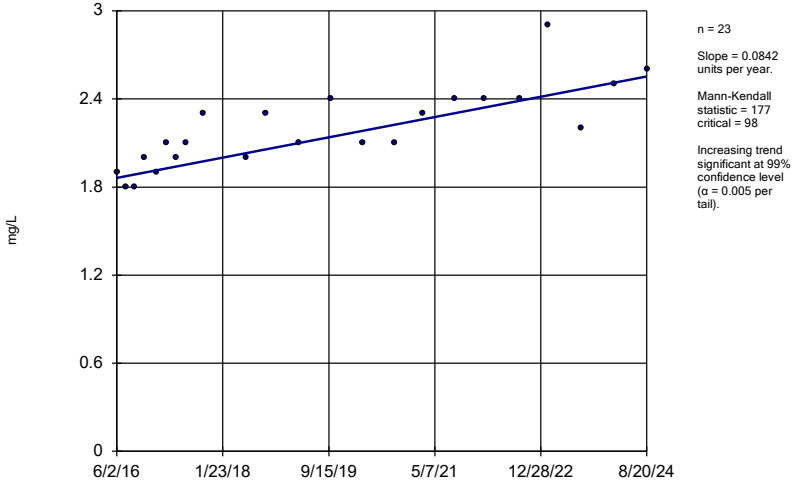
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.0842 units per year.

Mann-Kendall statistic = 177 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

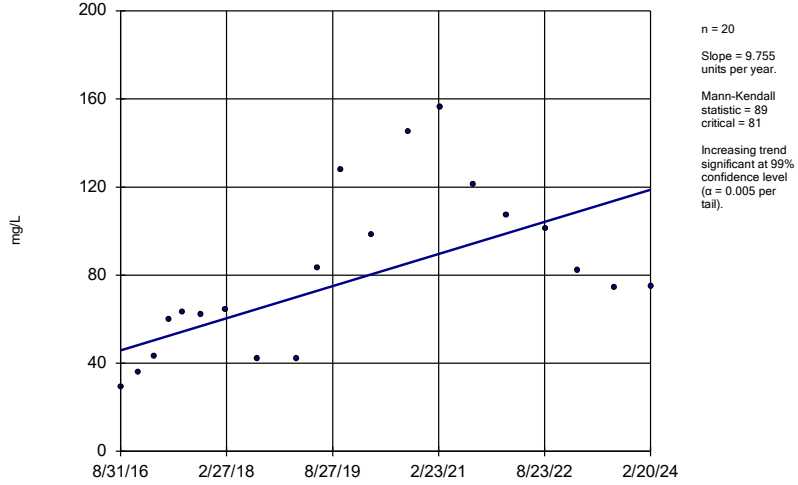
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 9.755 units per year.

Mann-Kendall statistic = 89 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

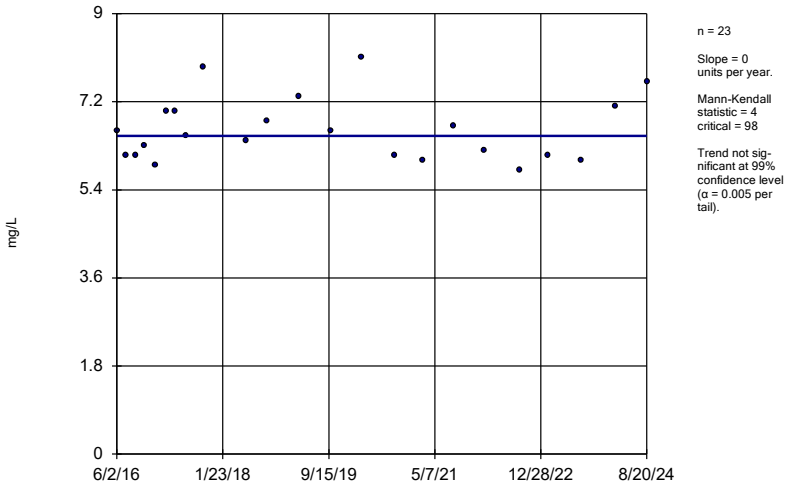
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 4 critical = 98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

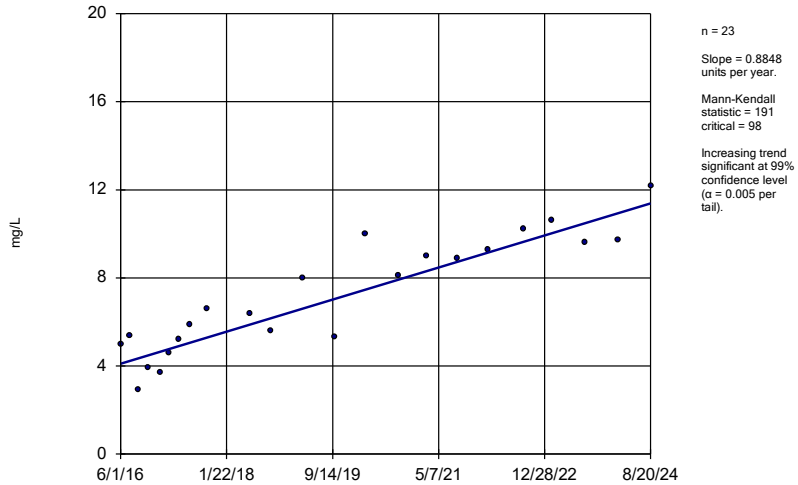
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.8848 units per year.

Mann-Kendall statistic = 191 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

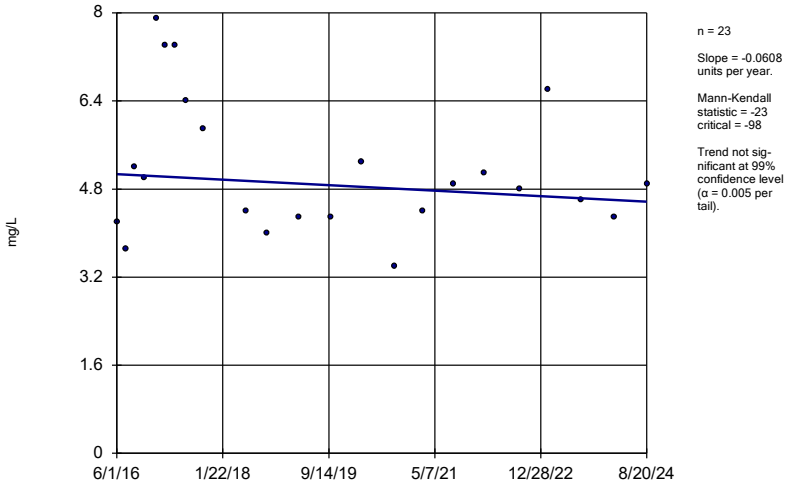
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = -0.0608 units per year.

Mann-Kendall statistic = -23 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

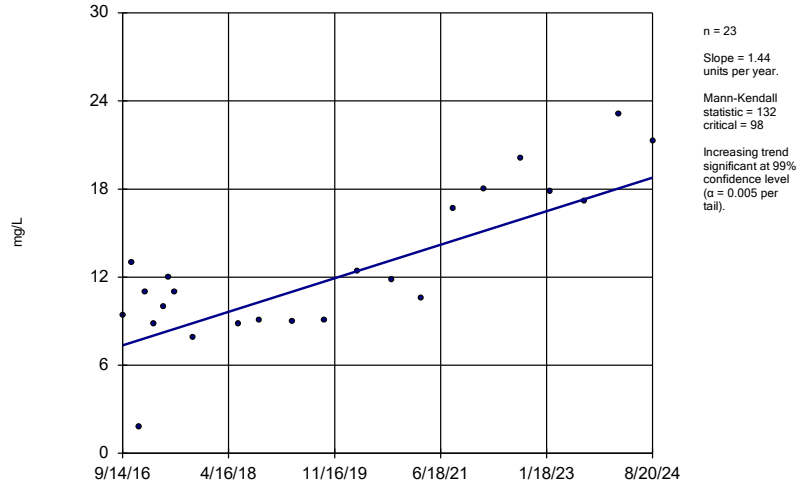
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 1.44 units per year.

Mann-Kendall statistic = 132 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

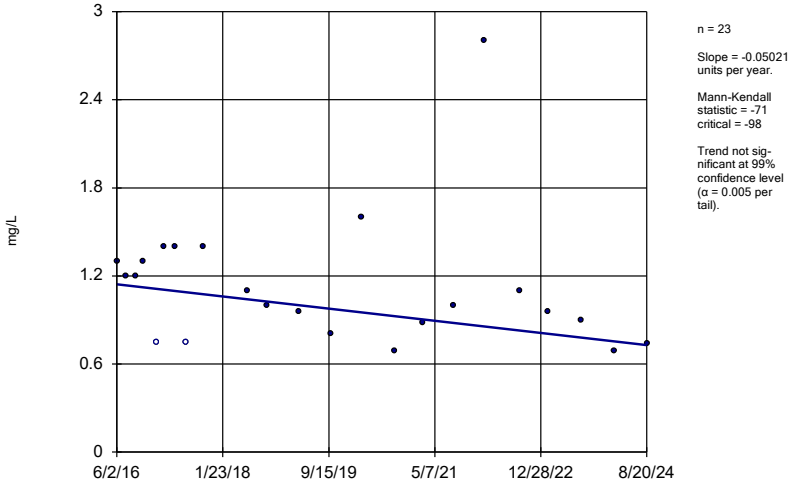
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = -0.05021 units per year.

Mann-Kendall statistic = -71 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

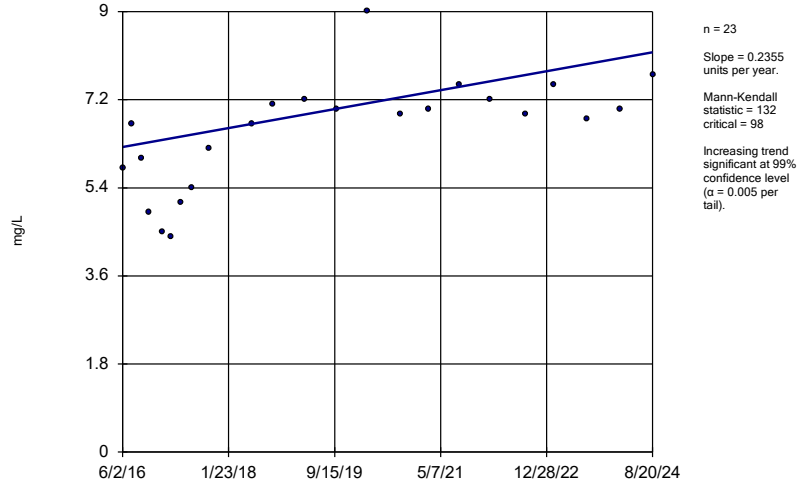
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0.2355 units per year.

Mann-Kendall statistic = 132 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

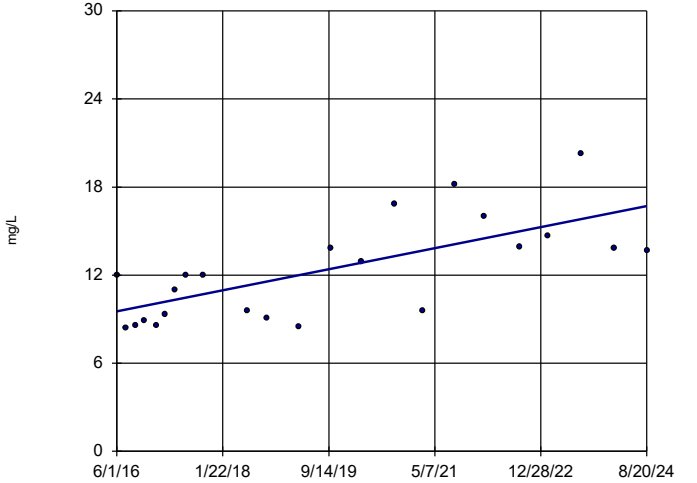
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0.8717 units per year.

Mann-Kendall statistic = 133 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

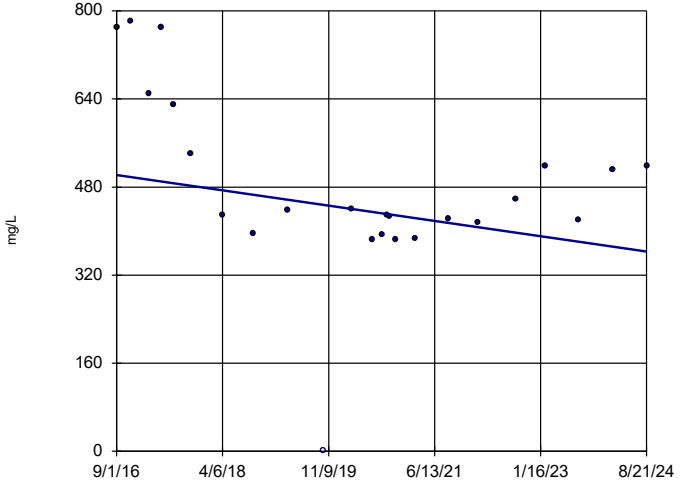
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWC-46A



n = 24

Slope = -17.44 units per year.

Mann-Kendall statistic = -71 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

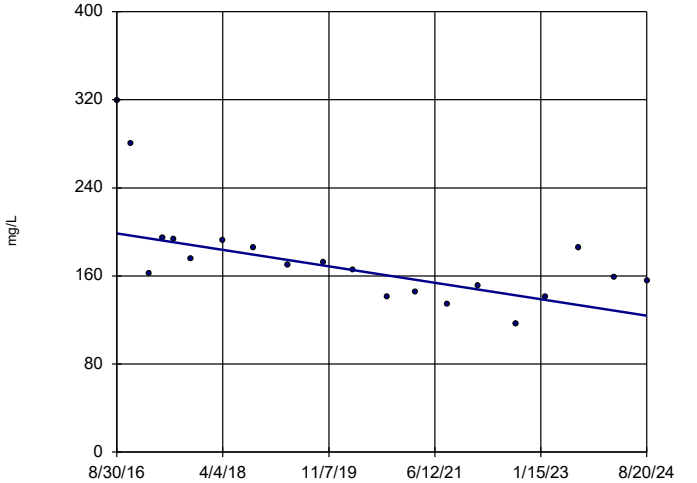
Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -9.336 units per year.

Mann-Kendall statistic = -108 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

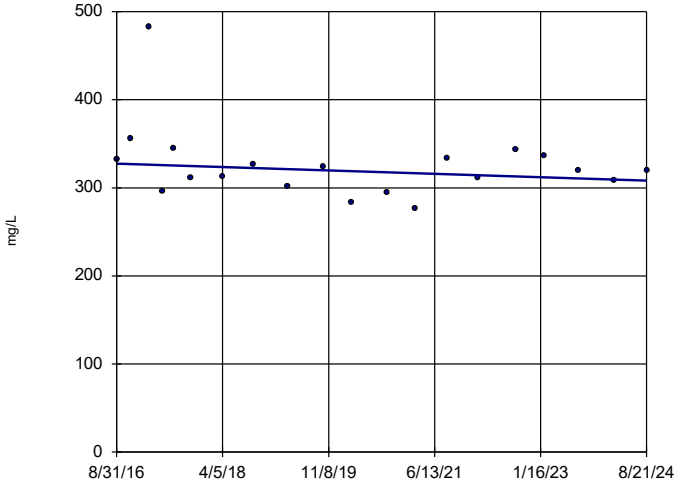
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-44



n = 20

Slope = -2.41 units per year.

Mann-Kendall statistic = -31 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

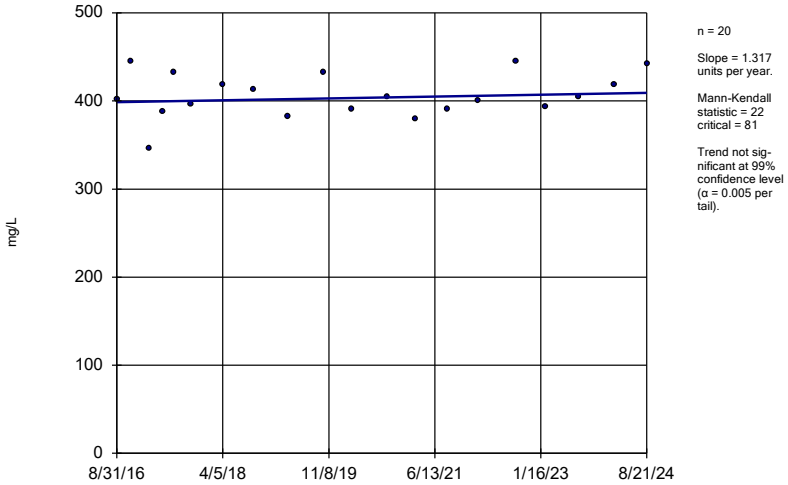
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-45



n = 20

Slope = 1.317 units per year.

Mann-Kendall statistic = 22 critical = 81

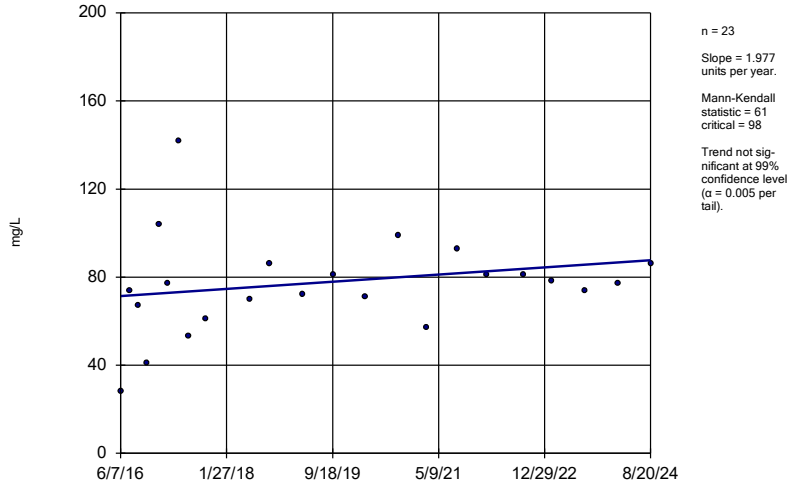
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 1.977 units per year.

Mann-Kendall statistic = 61 critical = 98

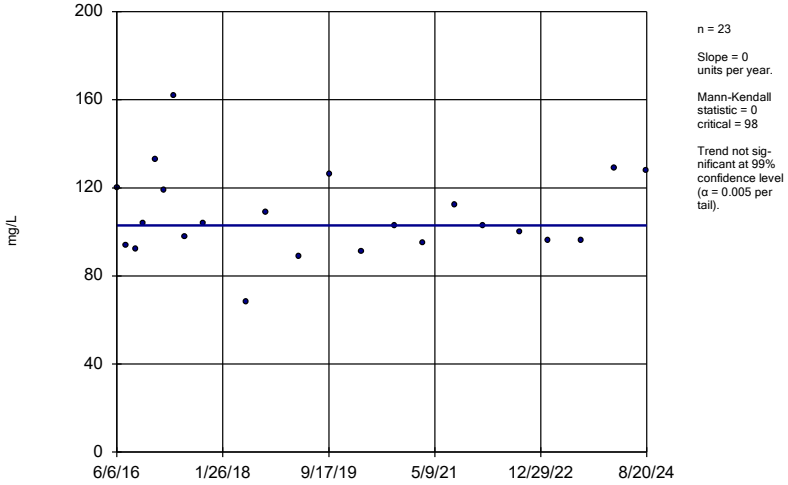
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 98

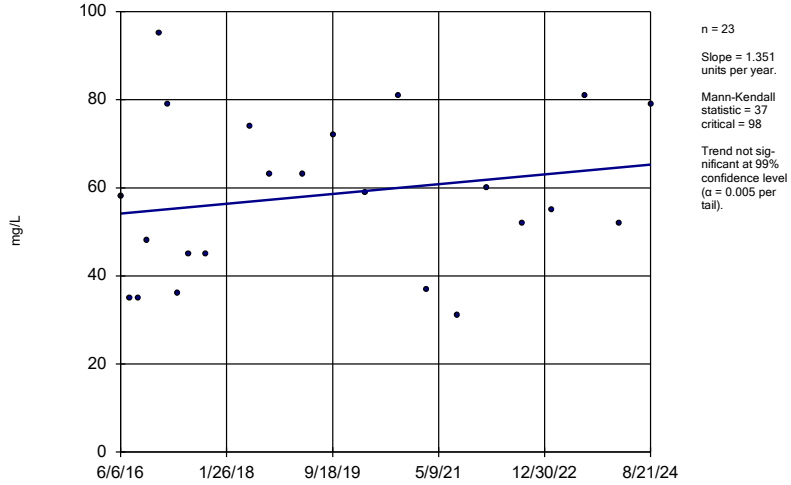
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = 1.351 units per year.

Mann-Kendall statistic = 37 critical = 98

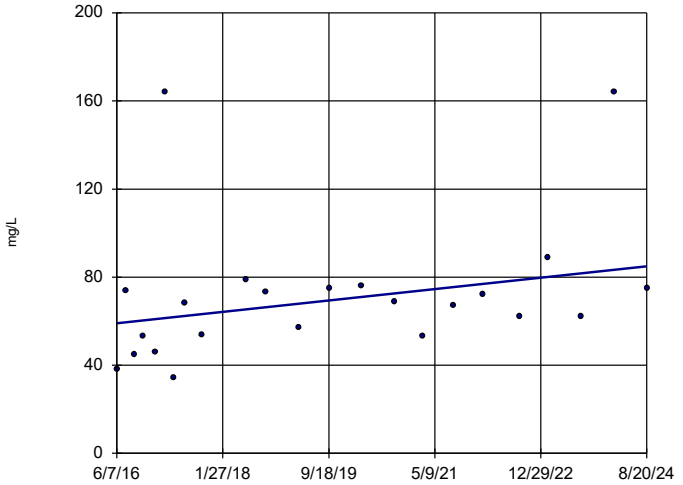
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 3.147 units per year.

Mann-Kendall statistic = 79
critical = 98

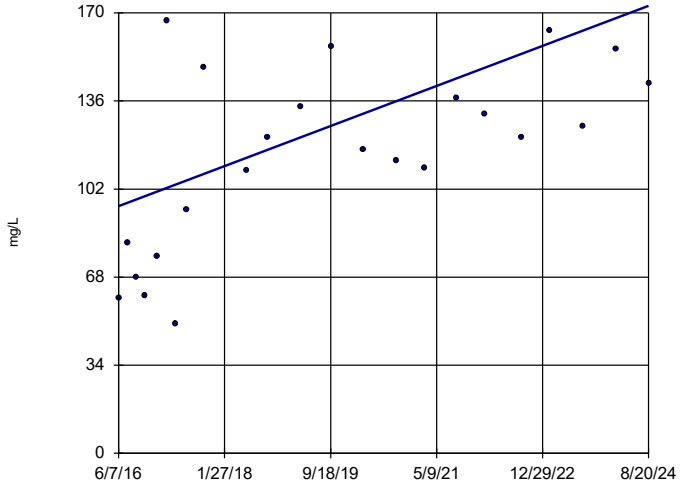
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 9.422 units per year.

Mann-Kendall statistic = 118
critical = 98

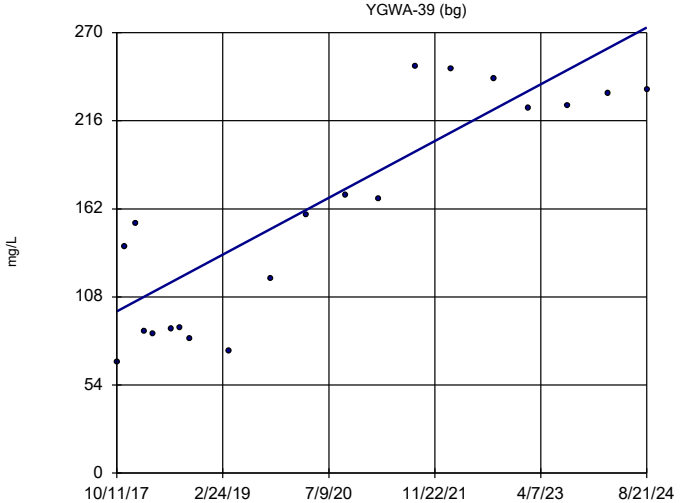
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 25.35 units per year.

Mann-Kendall statistic = 110
critical = 81

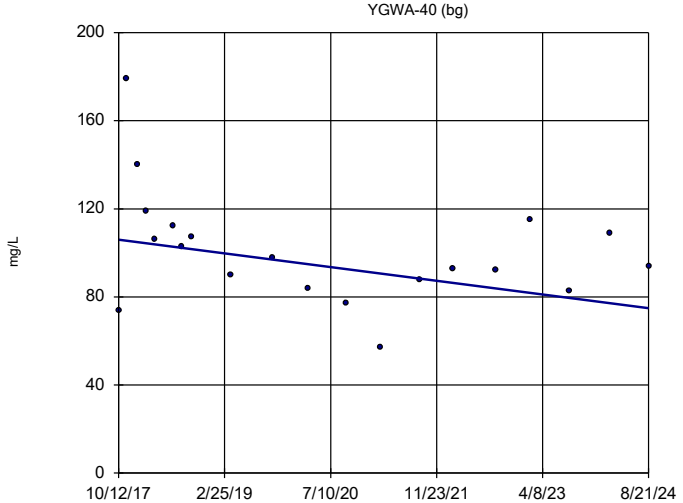
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -4.535 units per year.

Mann-Kendall statistic = -52
critical = -81

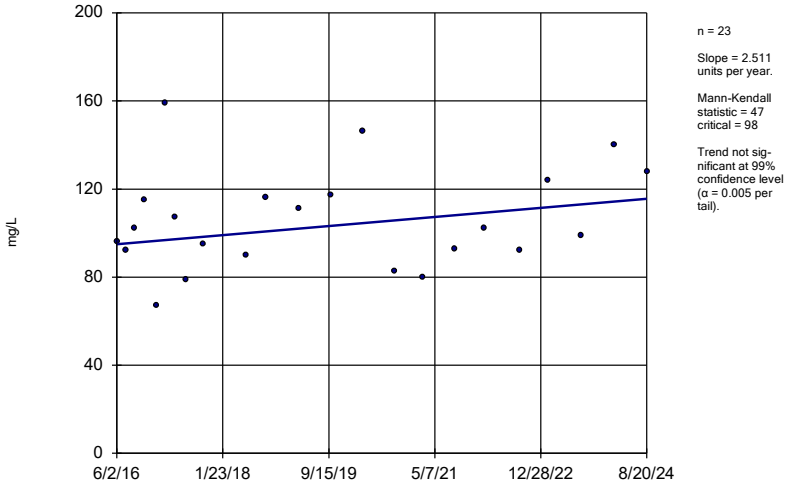
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 2.511 units per year.

Mann-Kendall statistic = 47 critical = 98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

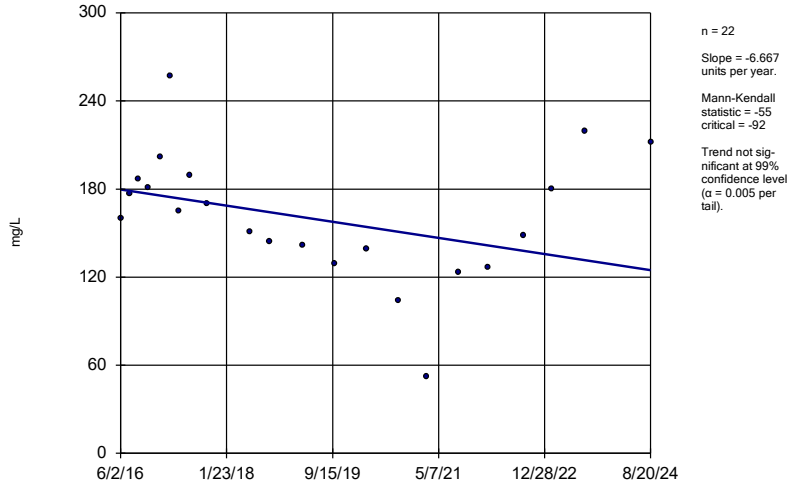
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = -6.667 units per year.

Mann-Kendall statistic = -55 critical = -92

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

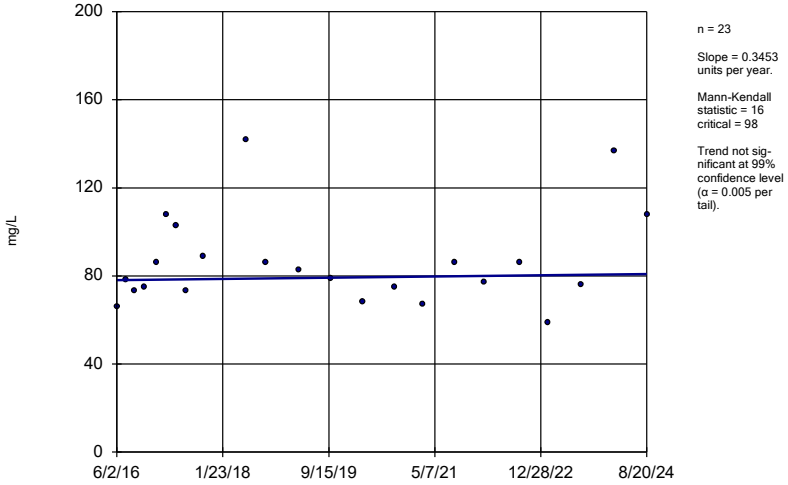
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.3453 units per year.

Mann-Kendall statistic = 16 critical = 98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

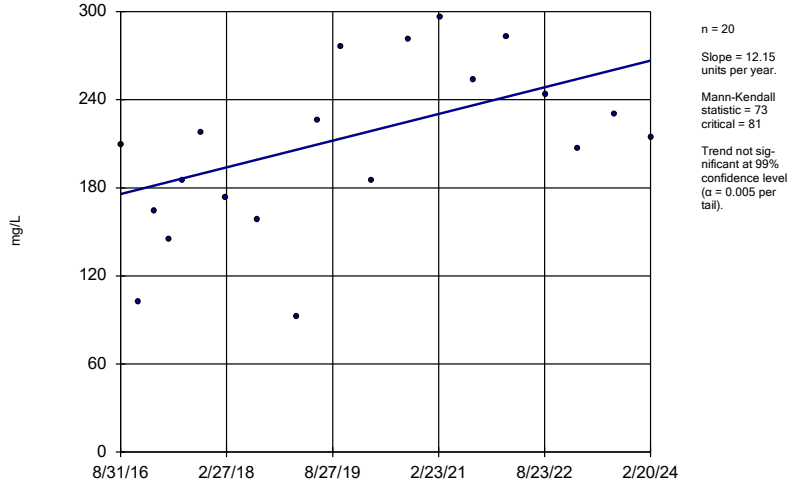
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 12.15 units per year.

Mann-Kendall statistic = 73 critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

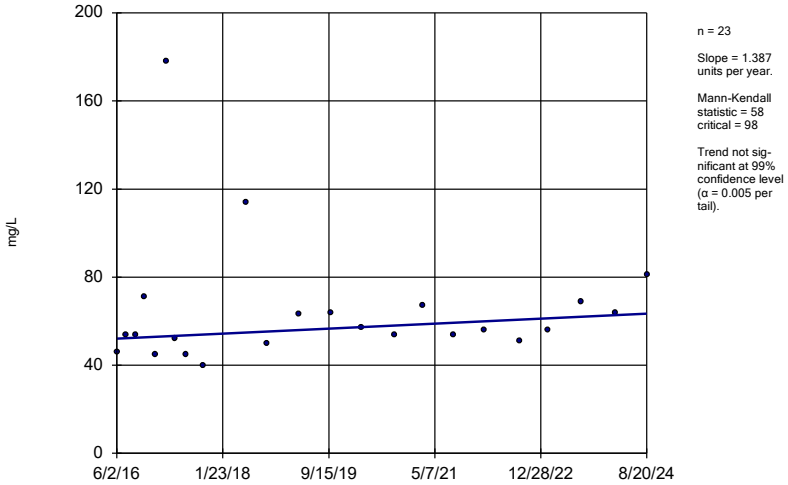
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = 1.387 units per year.

Mann-Kendall statistic = 58 critical = 98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

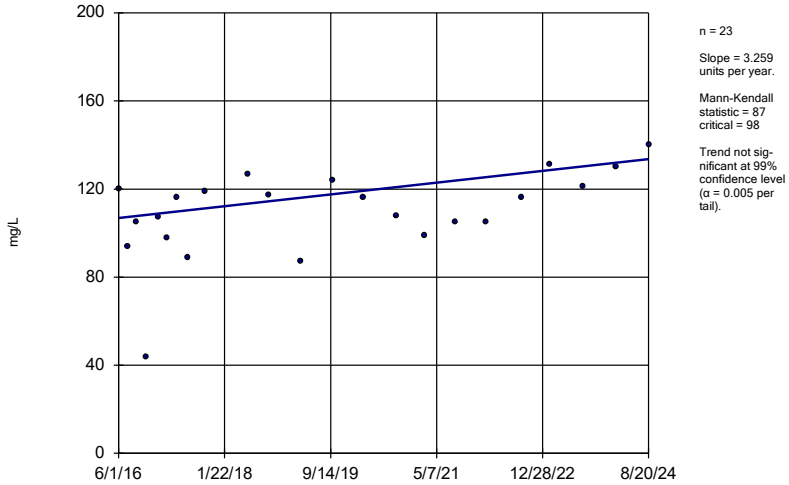
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 3.259 units per year.

Mann-Kendall statistic = 87 critical = 98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

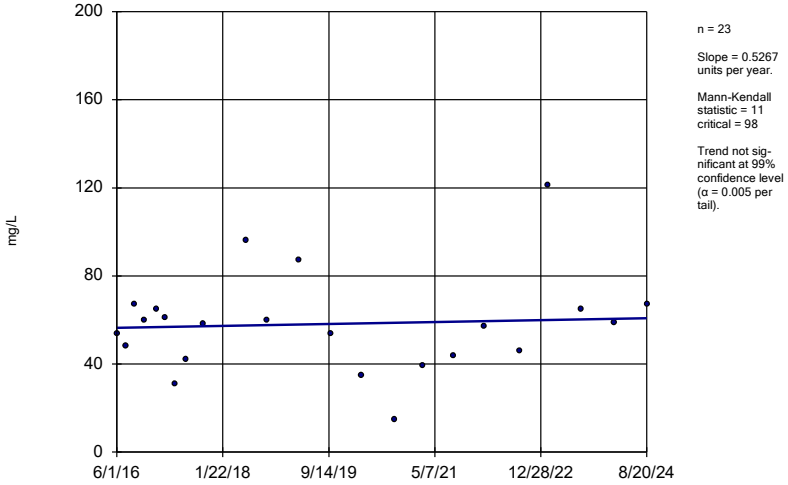
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = 0.5267 units per year.

Mann-Kendall statistic = 11 critical = 98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

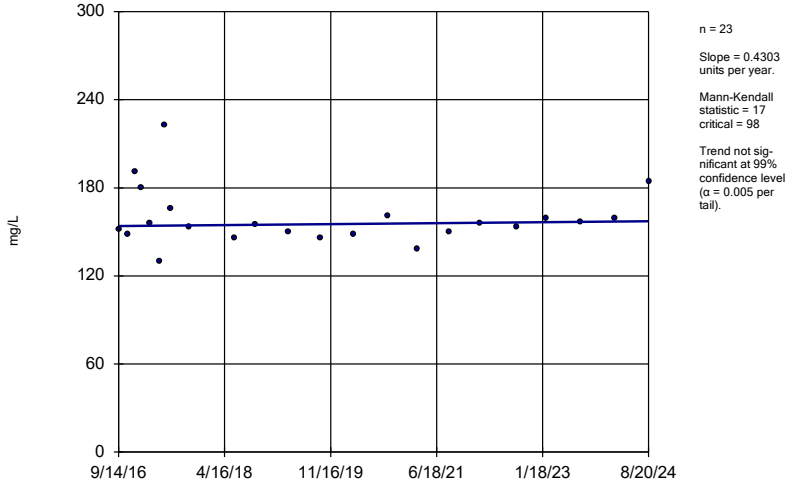
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 0.4303 units per year.

Mann-Kendall statistic = 17 critical = 98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

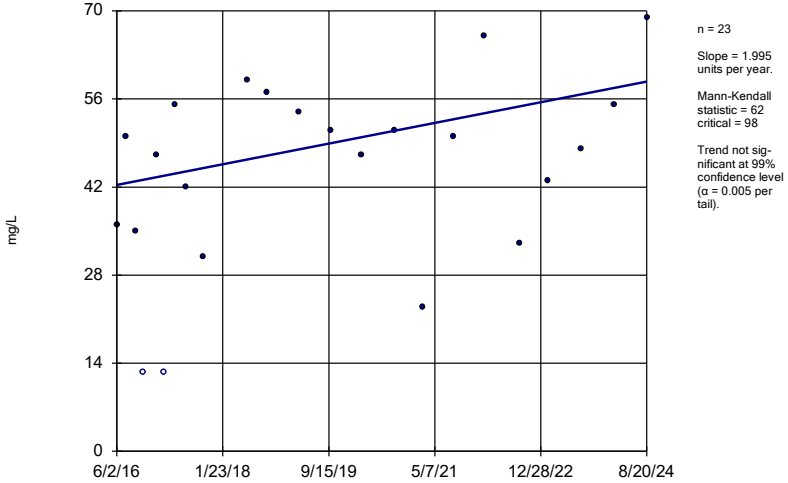
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = 1.995 units per year.

Mann-Kendall statistic = 62
critical = 98

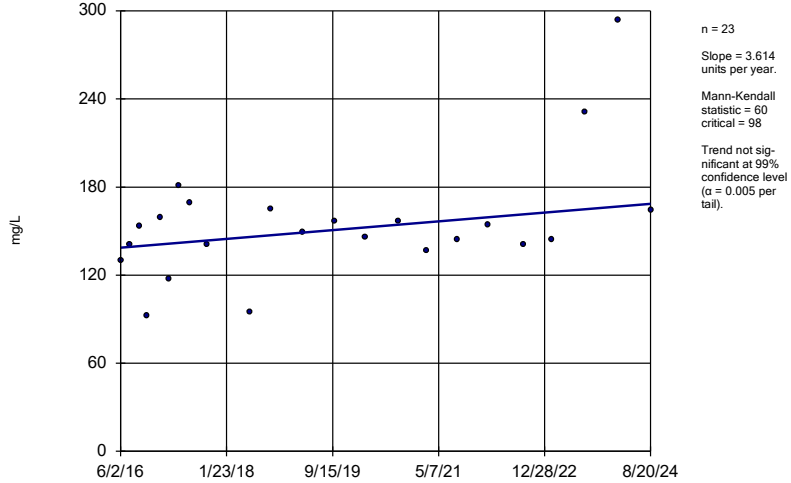
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 3.614 units per year.

Mann-Kendall statistic = 60
critical = 98

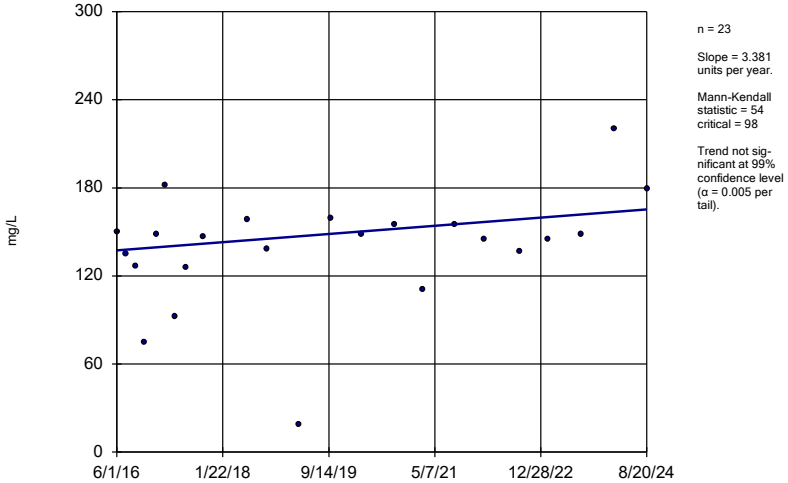
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 3.381 units per year.

Mann-Kendall statistic = 54
critical = 98

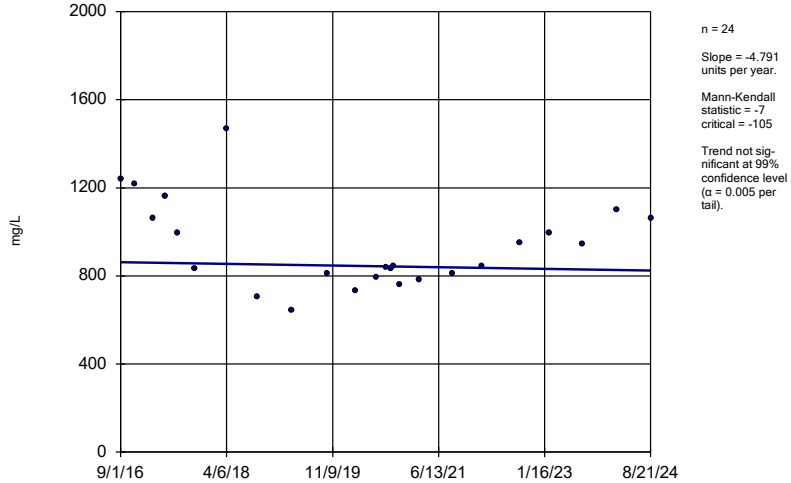
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-46A



n = 24

Slope = -4.791 units per year.

Mann-Kendall statistic = -7
critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Te
Plant Yates Client: Southern Company Data: Yates Ash Pond1

FIGURE G.

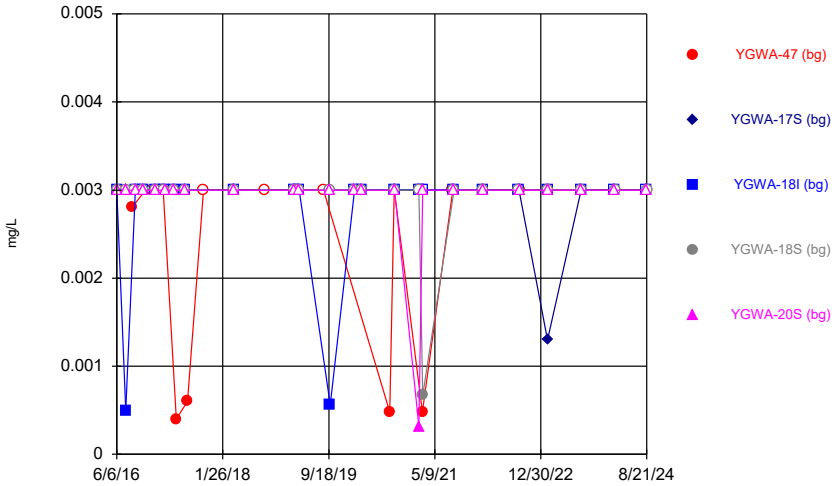
Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/24/2024, 3:29 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	447	n/a	n/a	88.14	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	495	n/a	n/a	75.35	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	495	n/a	n/a	2.222	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	479	n/a	n/a	80.17	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	479	n/a	n/a	94.99	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	447	n/a	n/a	82.33	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	489	n/a	n/a	68.92	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	474	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	0.68	494	n/a	n/a	62.96	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	449	n/a	n/a	87.75	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	474	n/a	n/a	27.43	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	403	n/a	n/a	89.58	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	438	n/a	n/a	61.19	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	477	n/a	n/a	92.87	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	413	n/a	n/a	97.58	n/a	n/a	NaN	NP Inter(NDs)

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

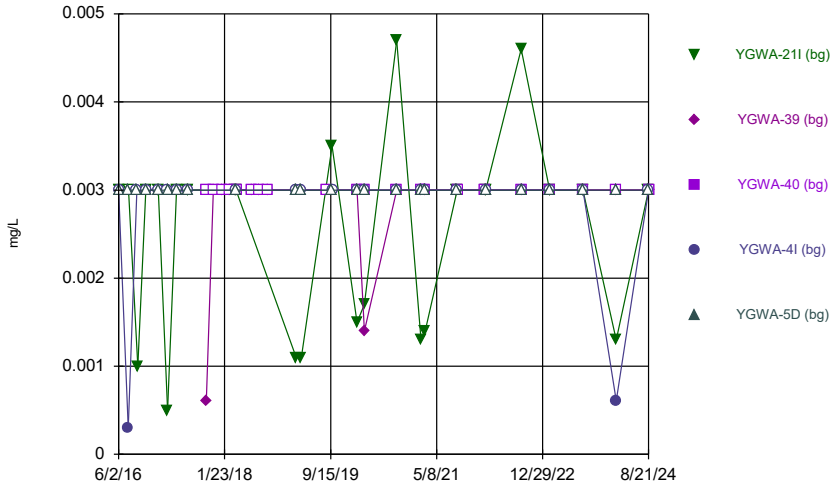
Time Series



Constituent: Antimony Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

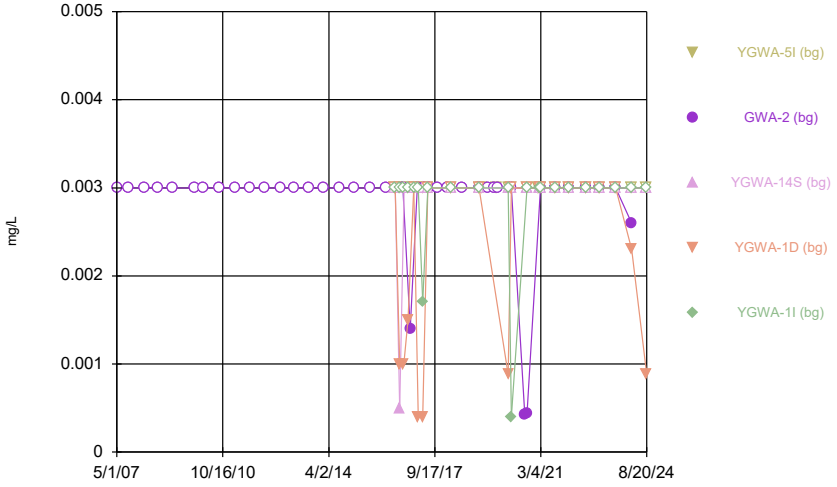
Time Series



Constituent: Antimony Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

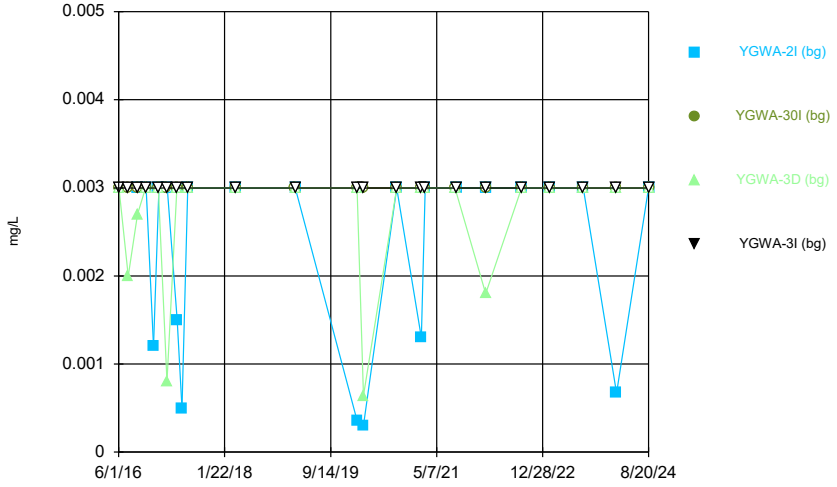
Time Series



Constituent: Antimony Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

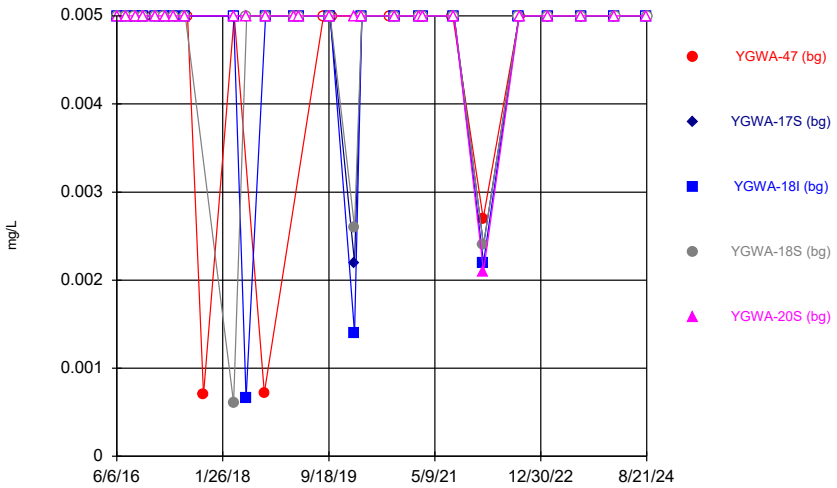
Time Series



Constituent: Antimony Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

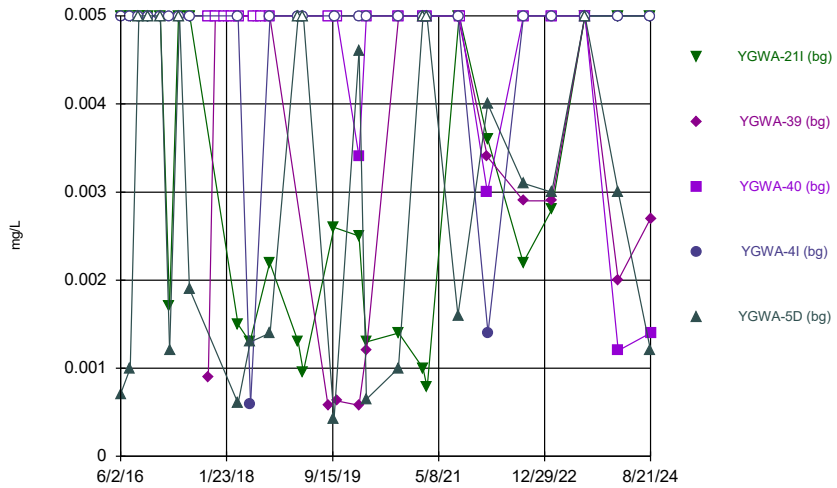
Time Series



Constituent: Arsenic Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

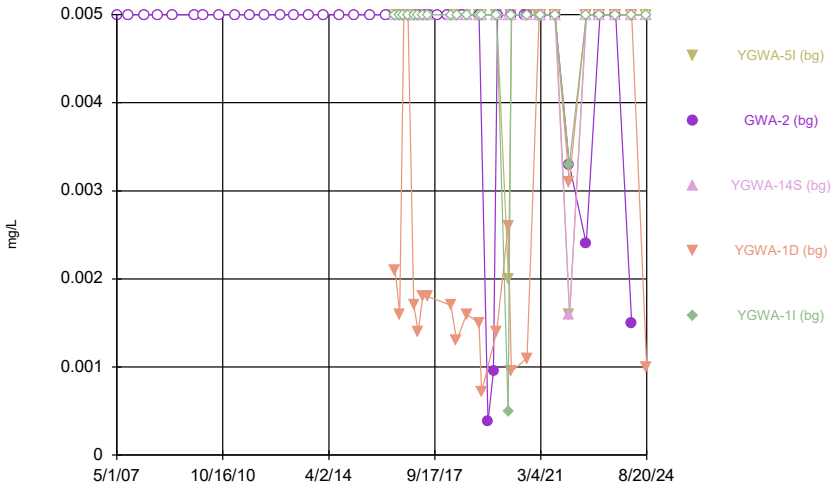
Time Series



Constituent: Arsenic Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

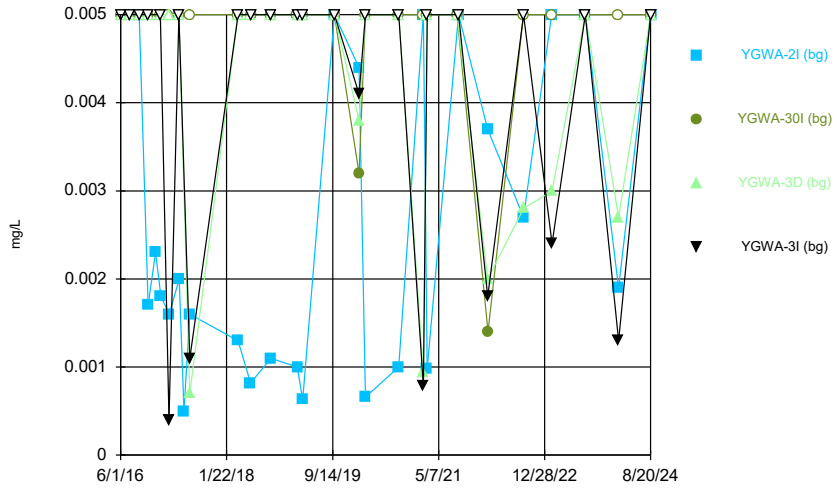
Time Series



Constituent: Arsenic Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

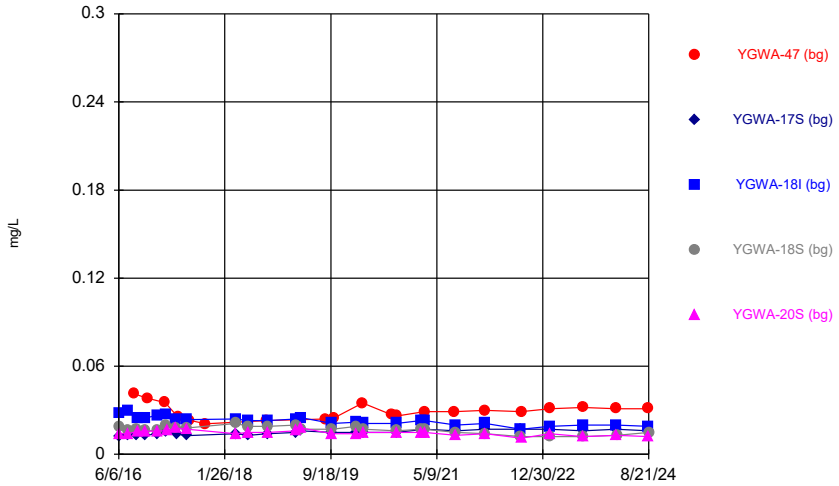
Time Series



Constituent: Arsenic Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

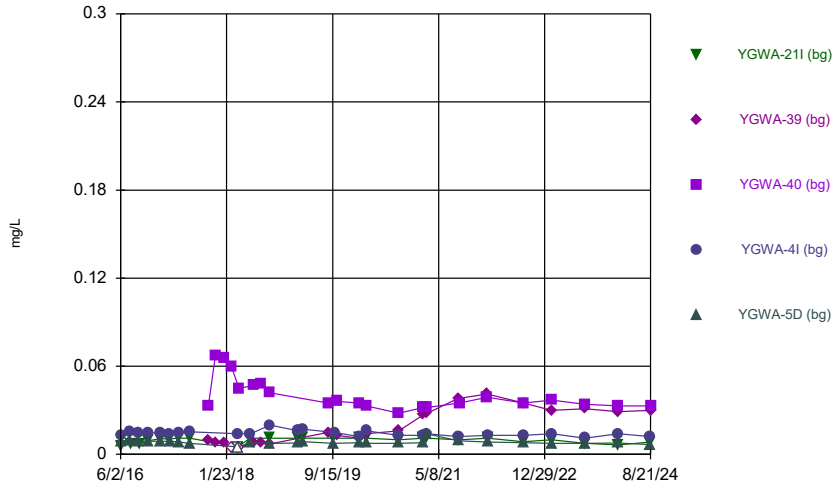
Time Series



Constituent: Barium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

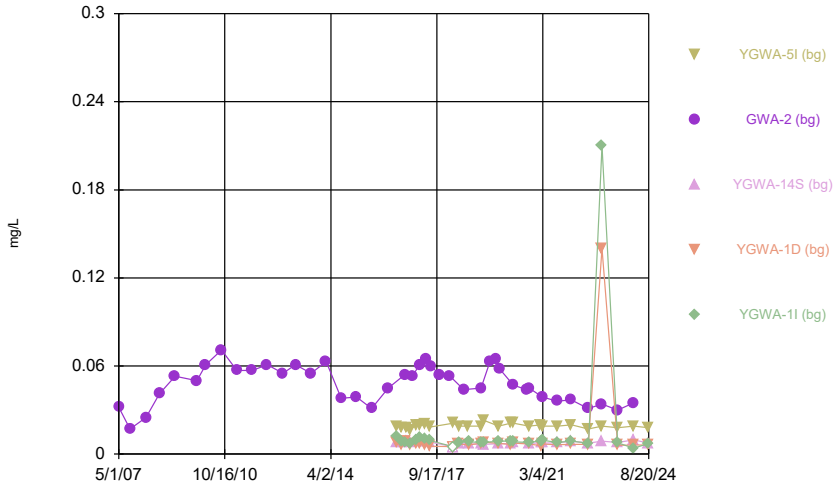
Time Series



Constituent: Barium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

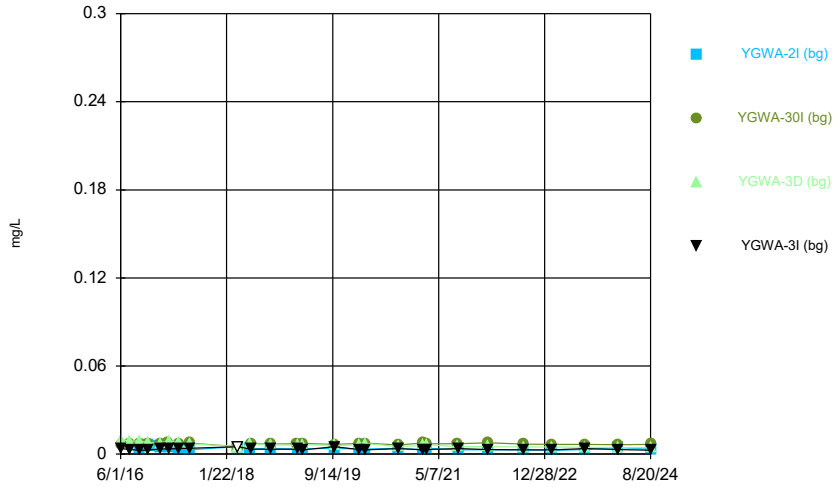
Time Series



Constituent: Barium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

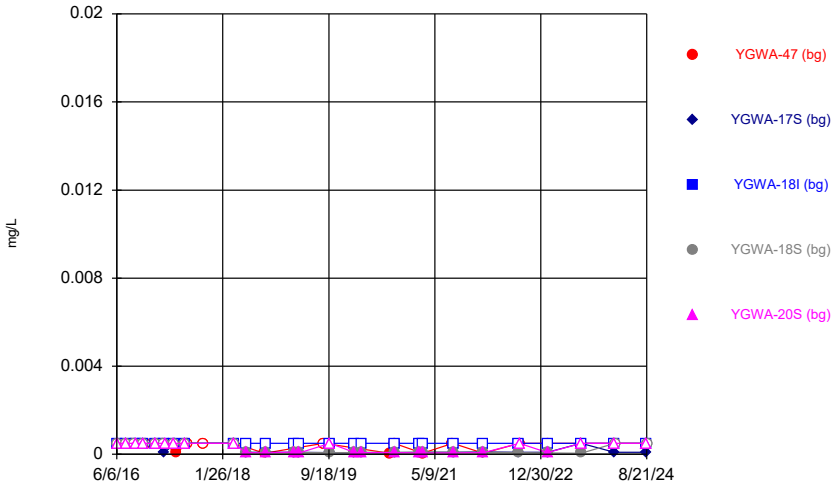
Time Series



Constituent: Barium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

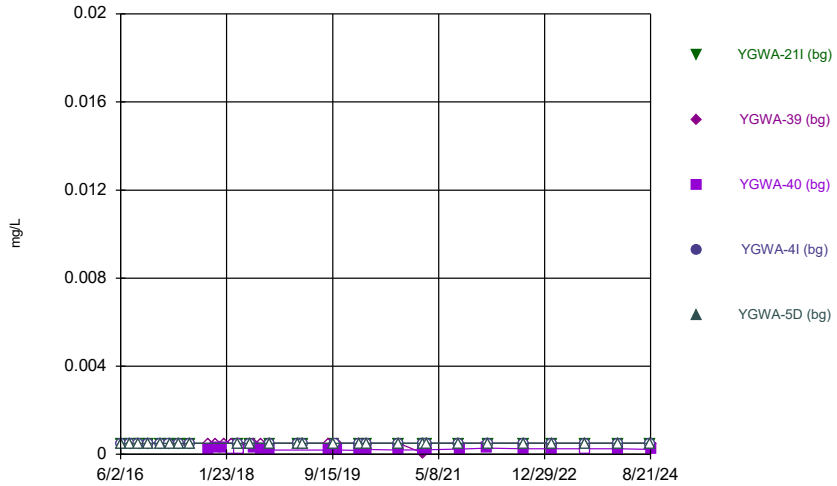
Time Series



Constituent: Beryllium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

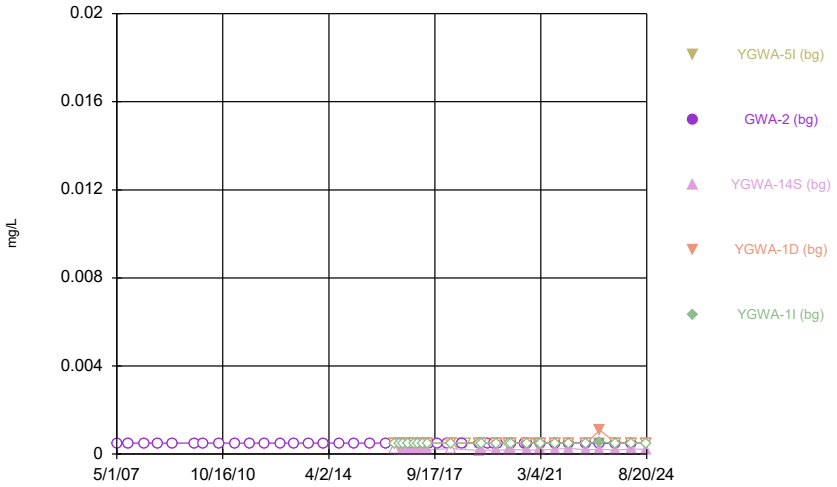
Time Series



Constituent: Beryllium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

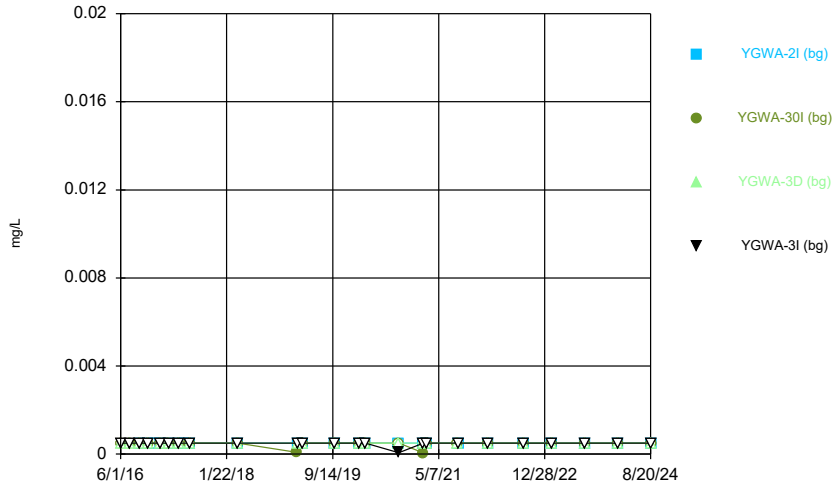
Time Series



Constituent: Beryllium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

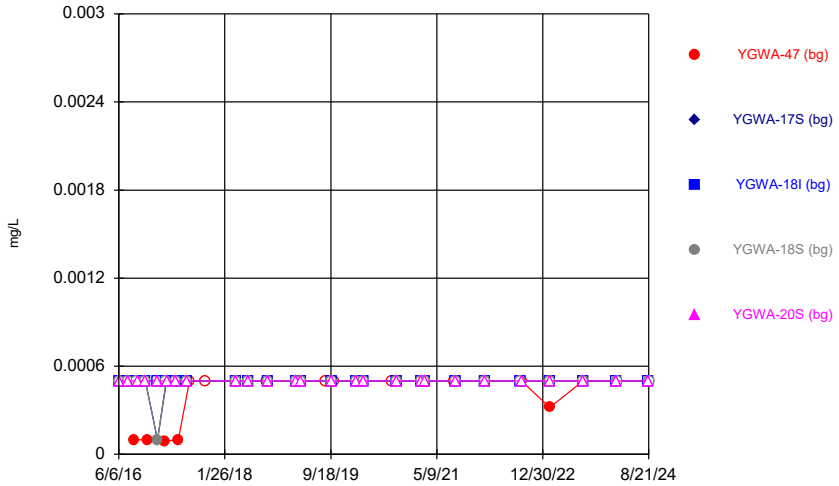
Time Series



Constituent: Beryllium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

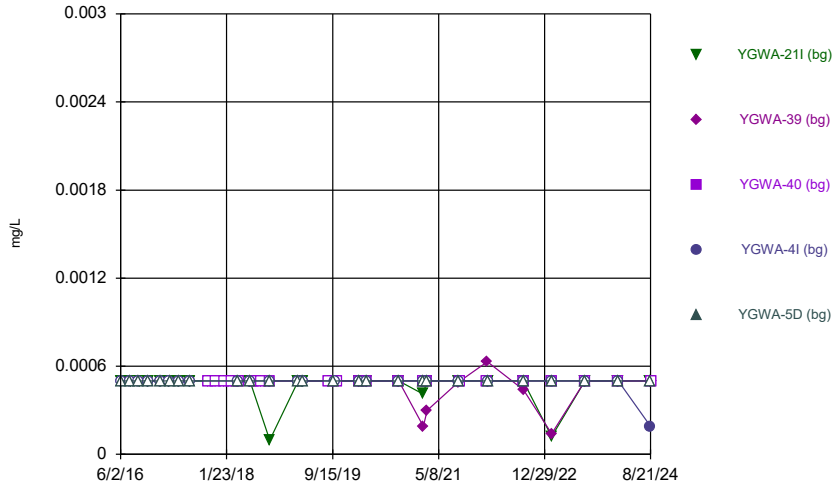
Time Series



Constituent: Cadmium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

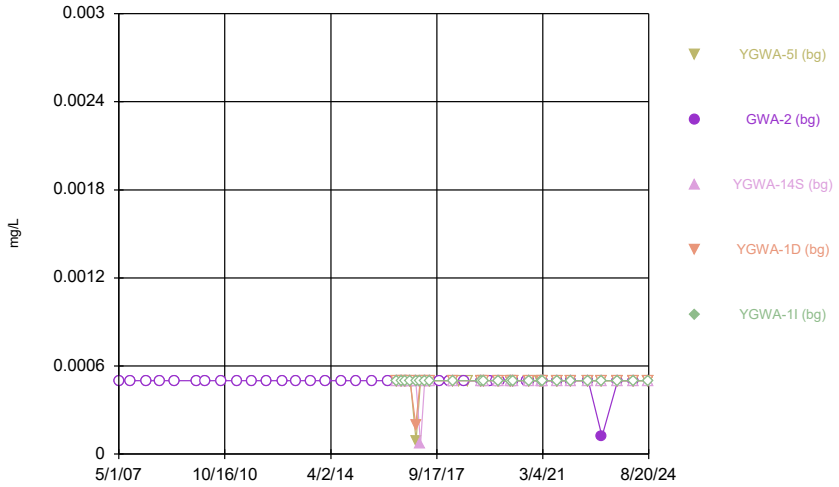
Time Series



Constituent: Cadmium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

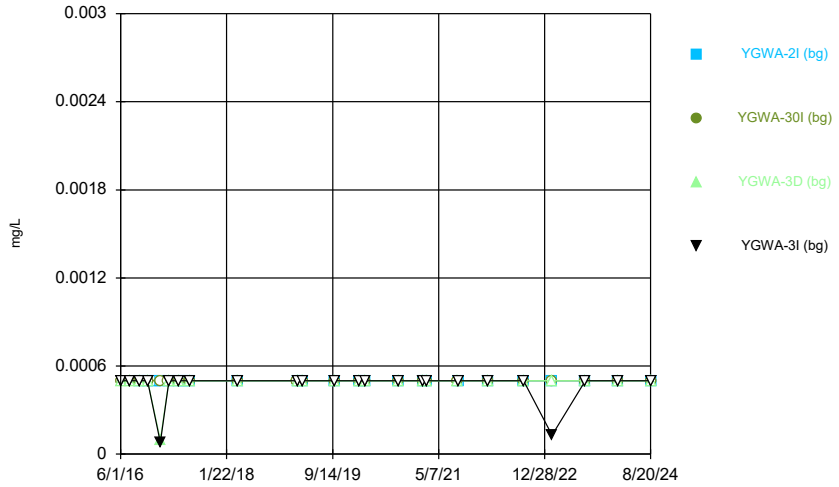
Time Series



Constituent: Cadmium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

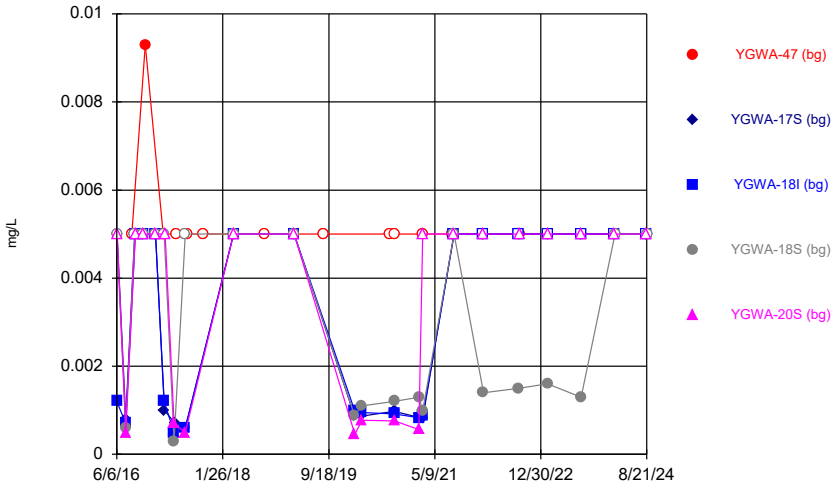
Time Series



Constituent: Cadmium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

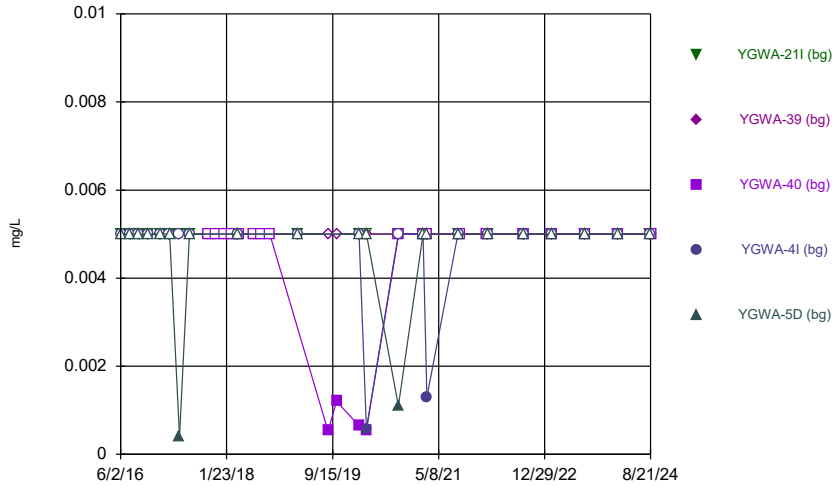
Time Series



Constituent: Chromium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

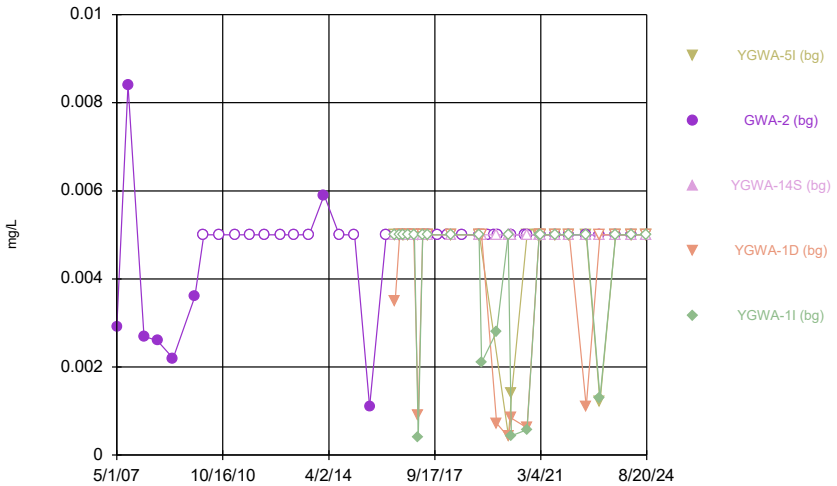
Time Series



Constituent: Chromium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

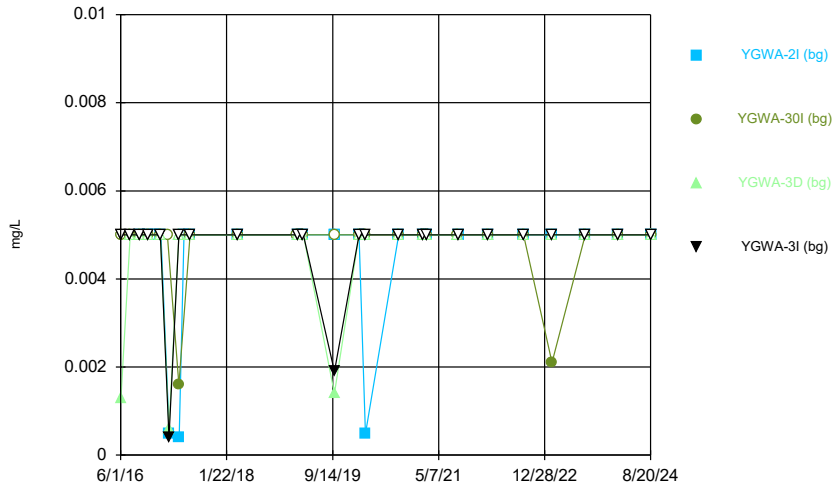
Time Series



Constituent: Chromium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

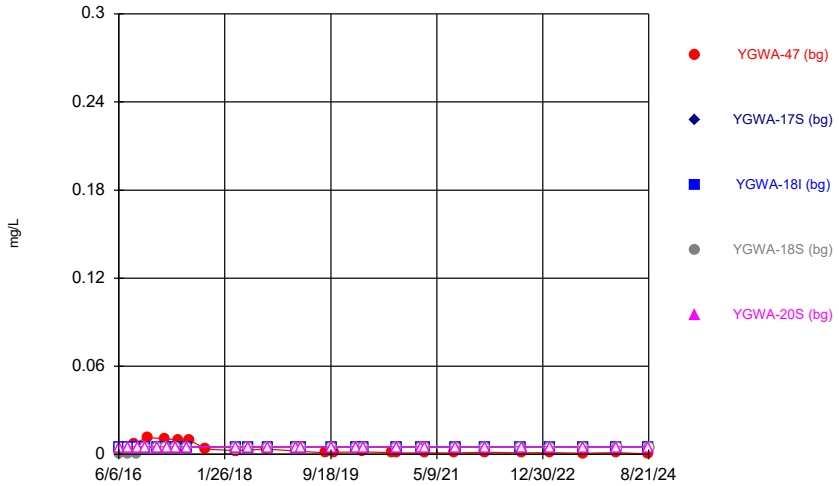
Time Series



Constituent: Chromium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

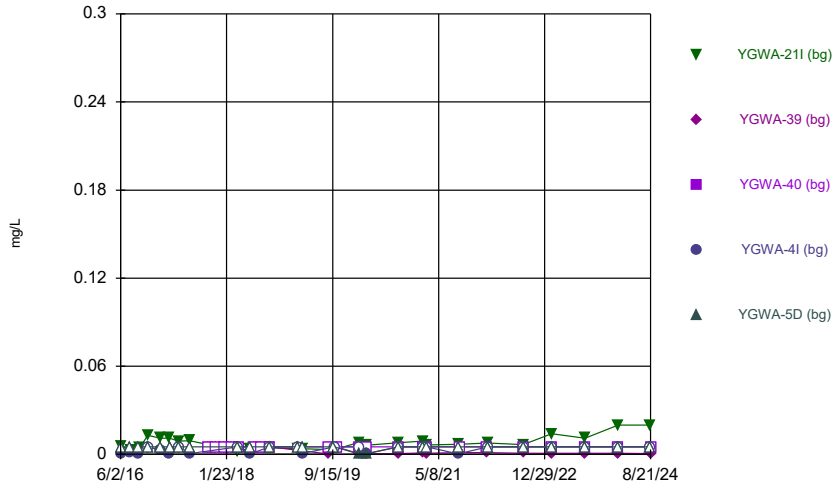
Time Series



Constituent: Cobalt Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

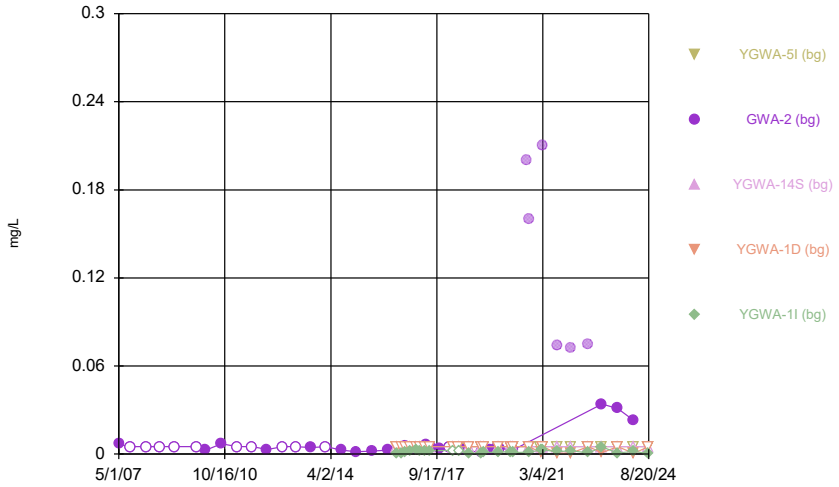
Time Series



Constituent: Cobalt Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

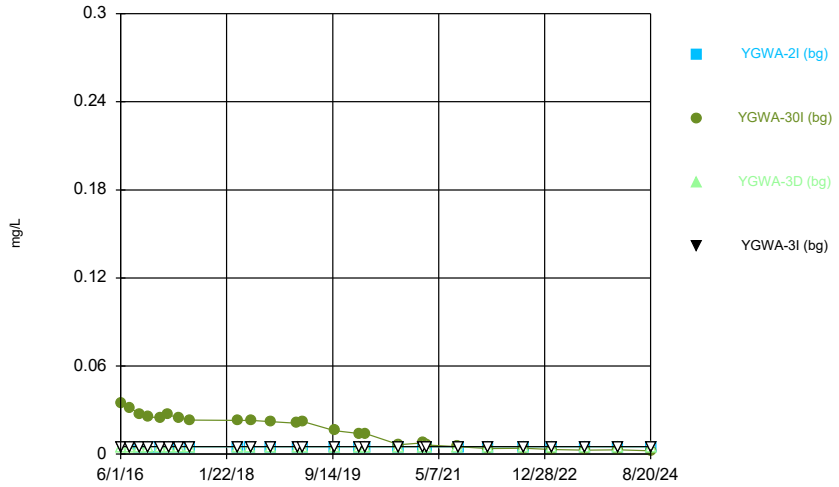
Time Series



Constituent: Cobalt Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

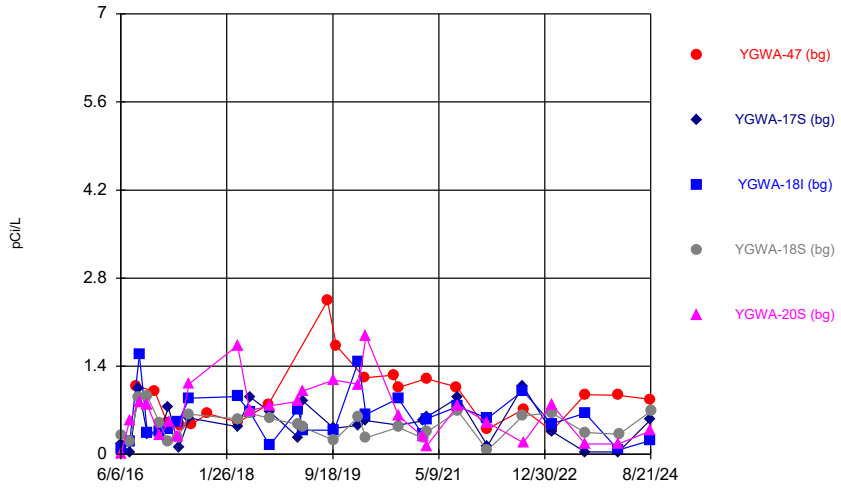
Time Series



Constituent: Cobalt Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

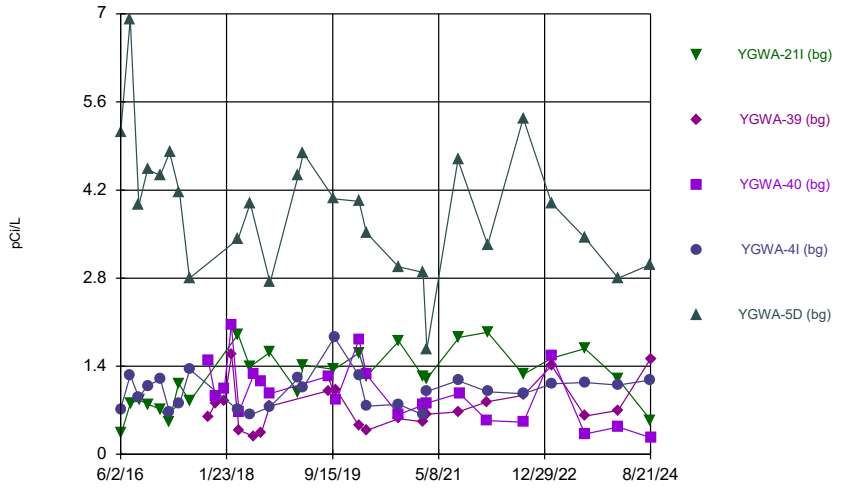
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

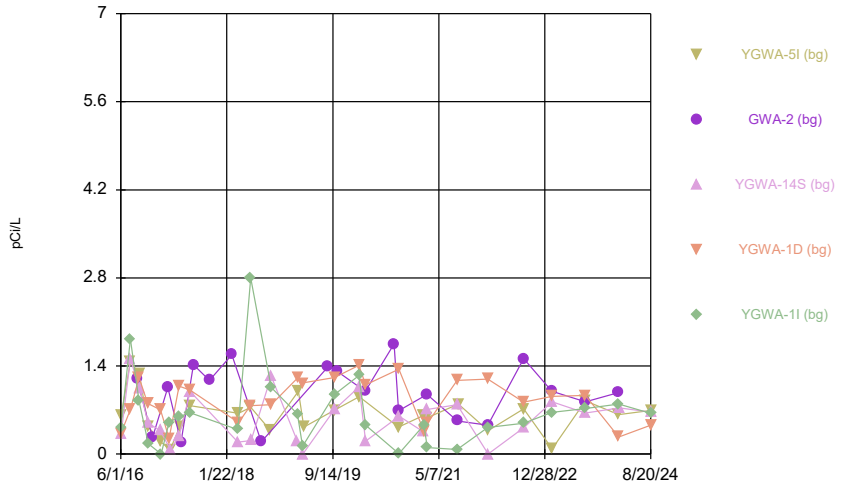
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

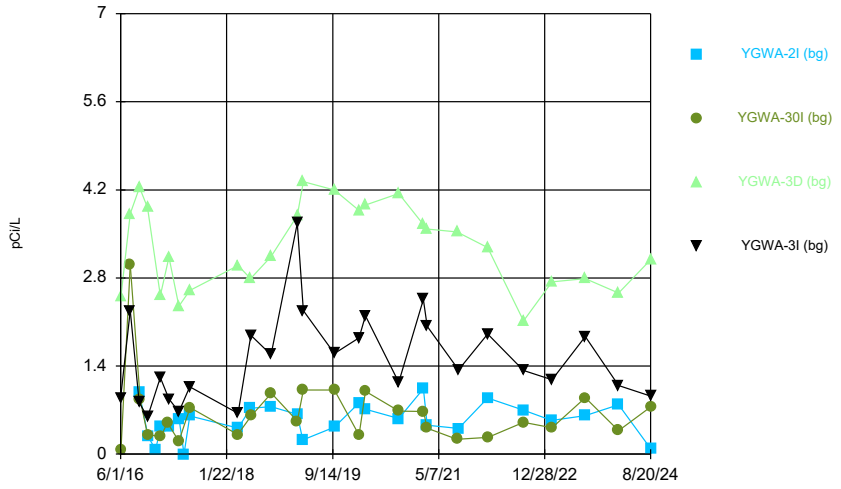
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

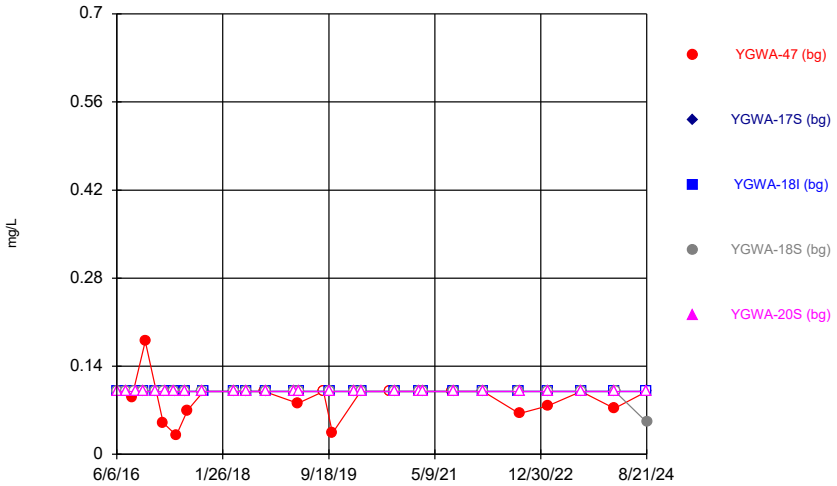
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

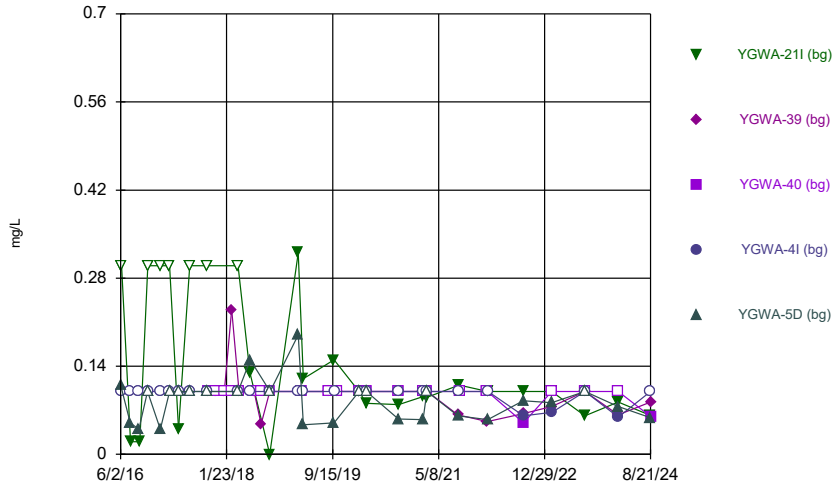
Time Series



Constituent: Fluoride, total Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

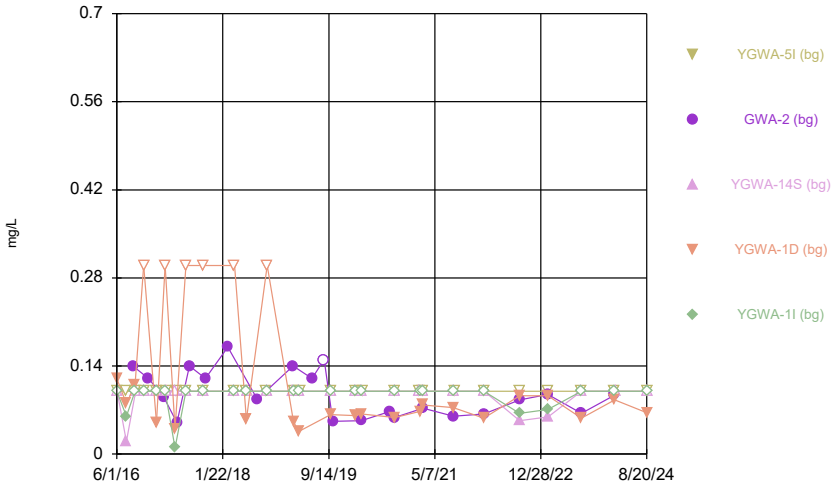
Time Series



Constituent: Fluoride, total Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

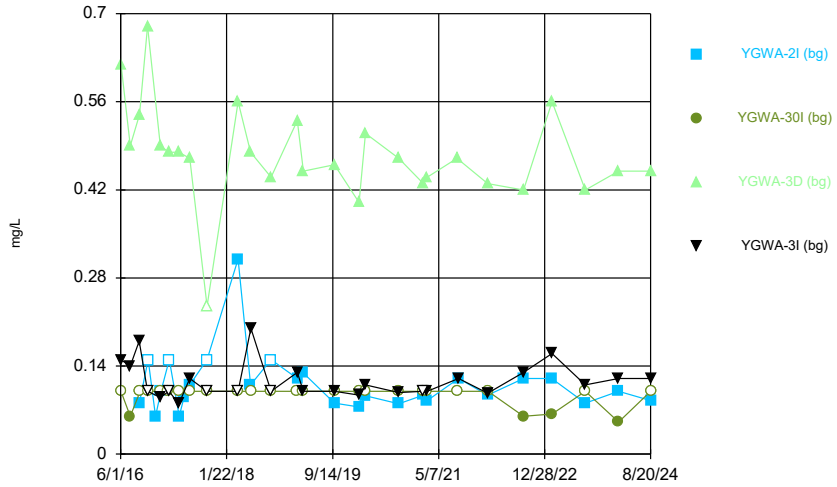
Time Series



Constituent: Fluoride, total Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

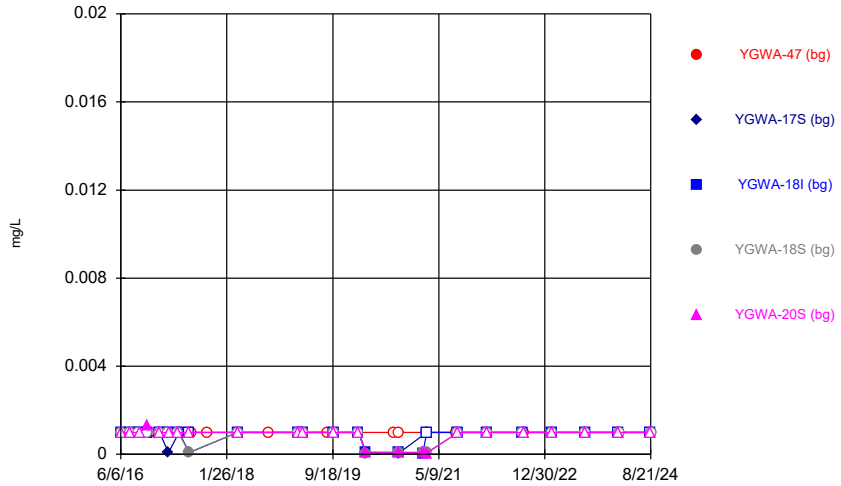
Time Series



Constituent: Fluoride, total Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

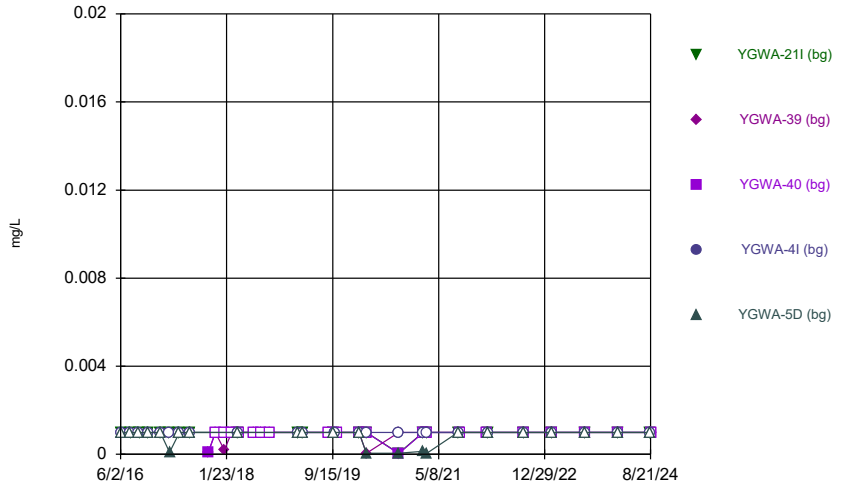
Time Series



Constituent: Lead Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

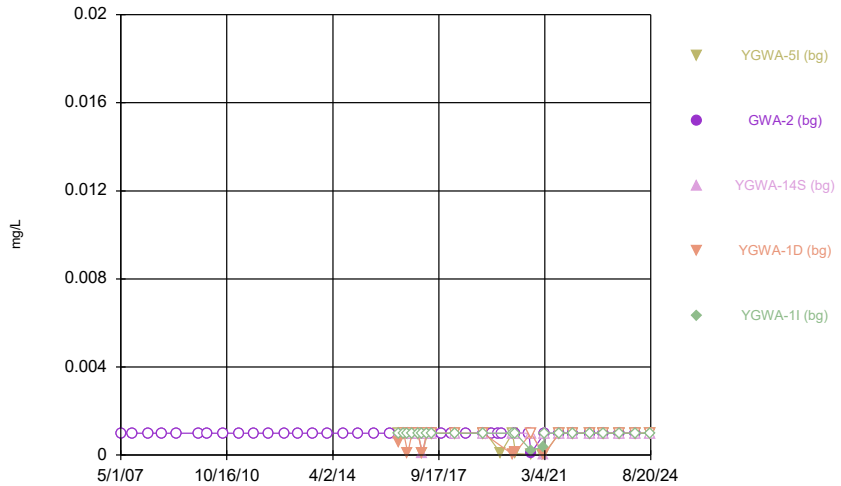
Time Series



Constituent: Lead Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

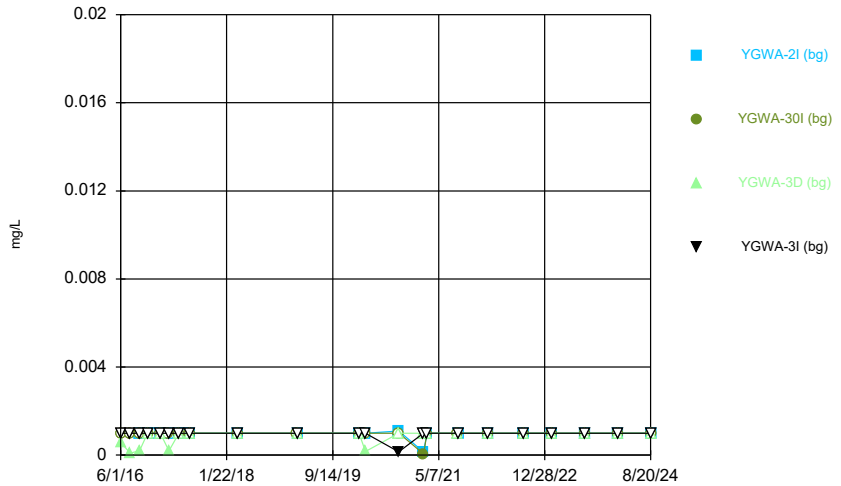
Time Series



Constituent: Lead Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

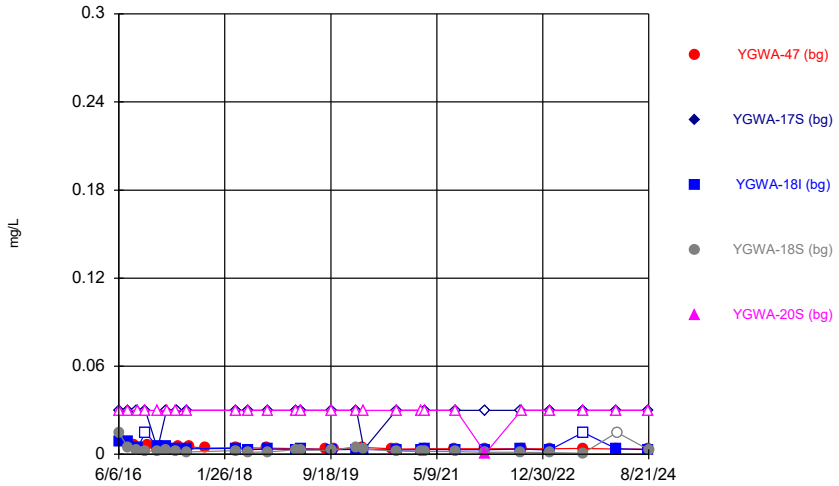
Time Series



Constituent: Lead Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

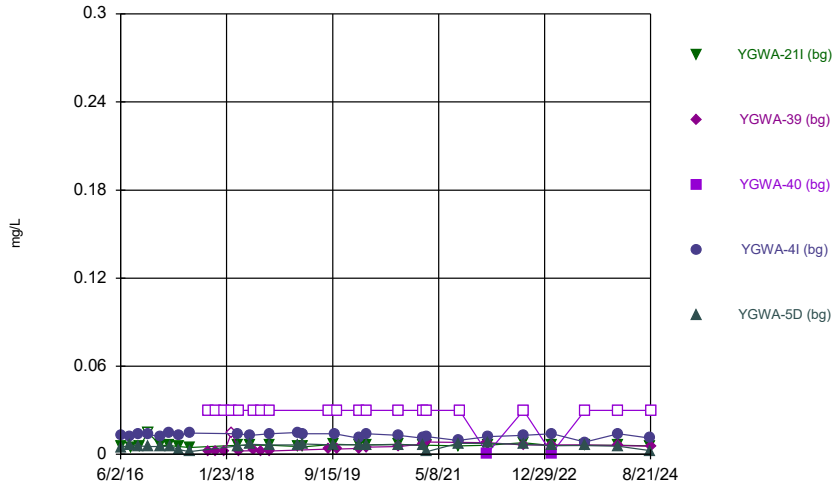
Time Series



Constituent: Lithium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

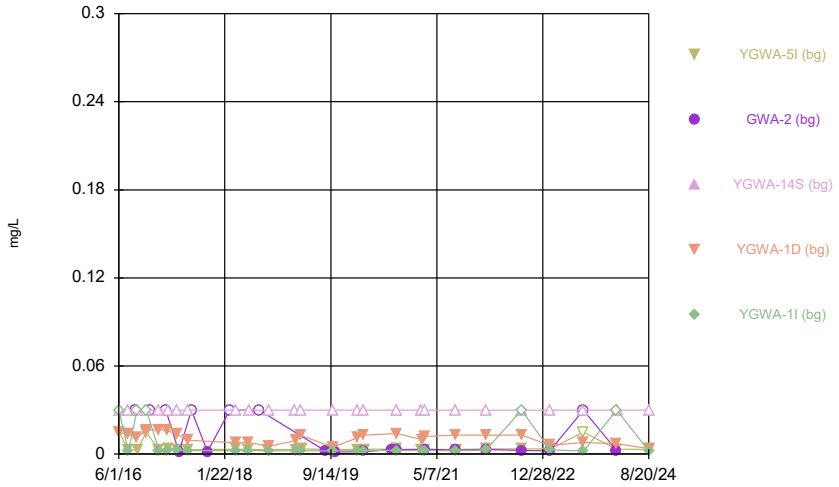
Time Series



Constituent: Lithium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

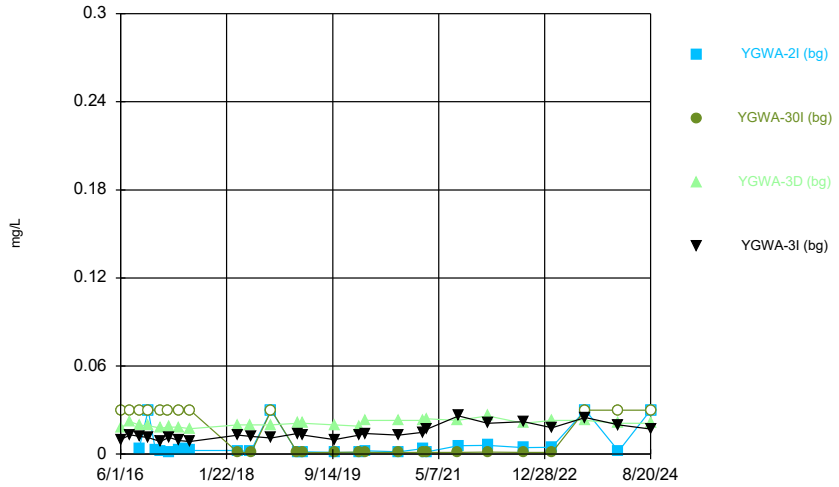
Time Series



Constituent: Lithium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

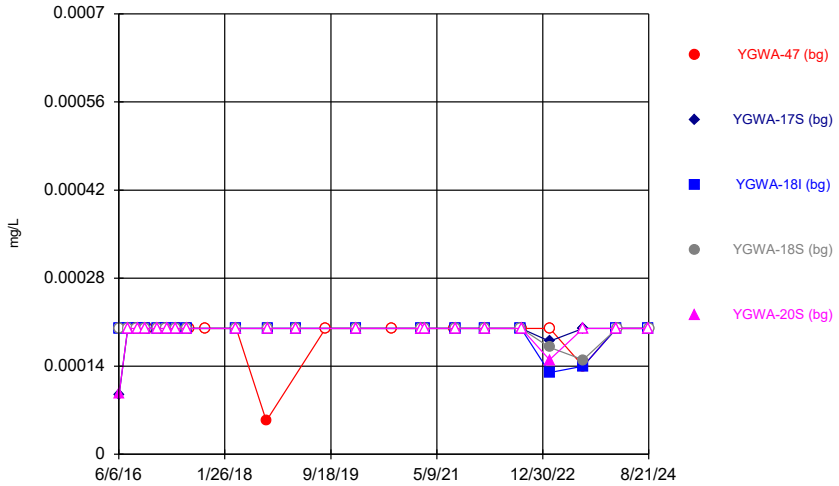
Time Series



Constituent: Lithium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

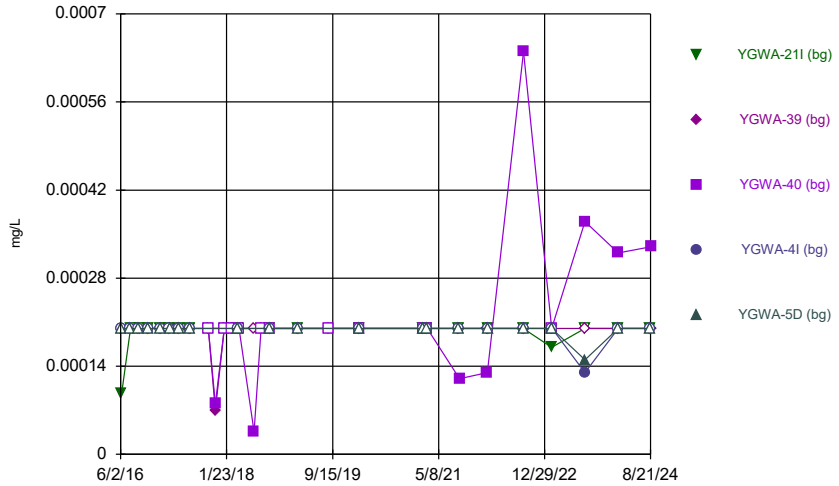
Time Series



Constituent: Mercury Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

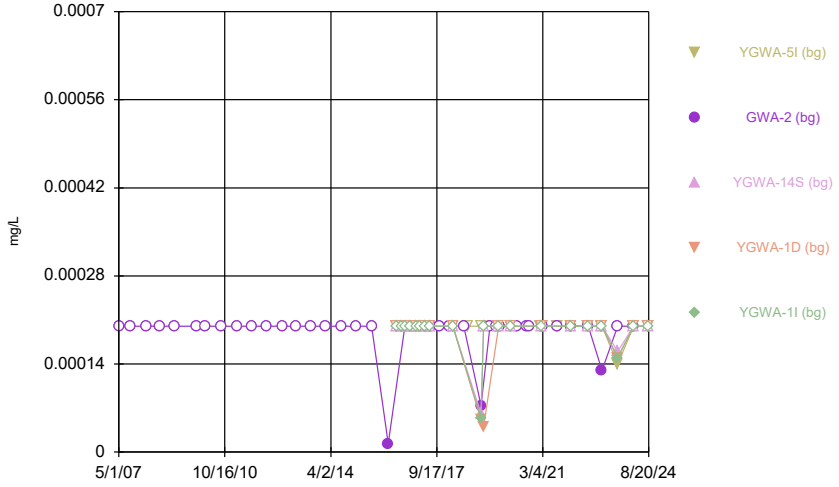
Time Series



Constituent: Mercury Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

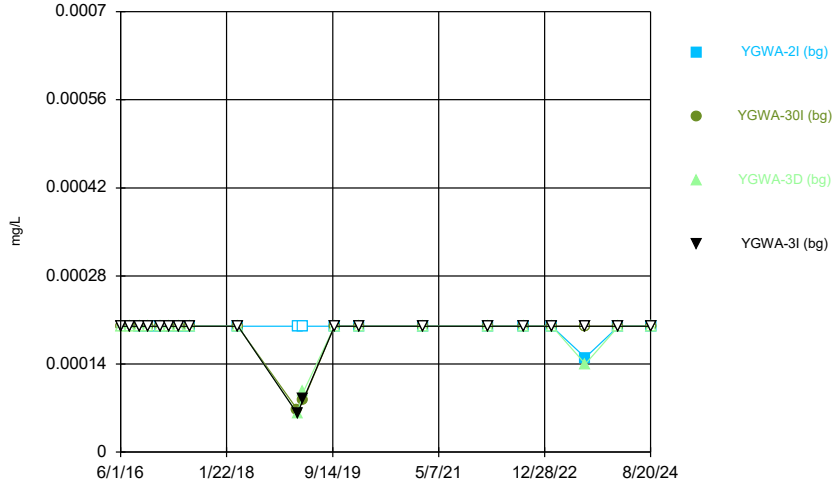
Time Series



Constituent: Mercury Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

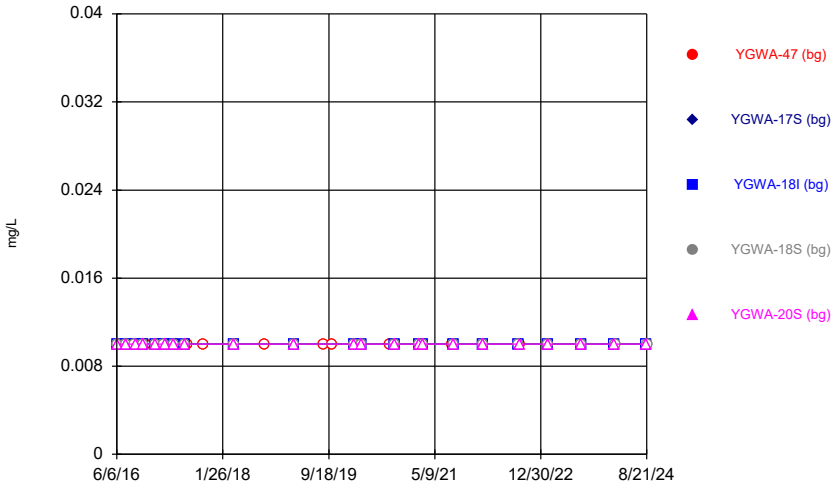
Time Series



Constituent: Mercury Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

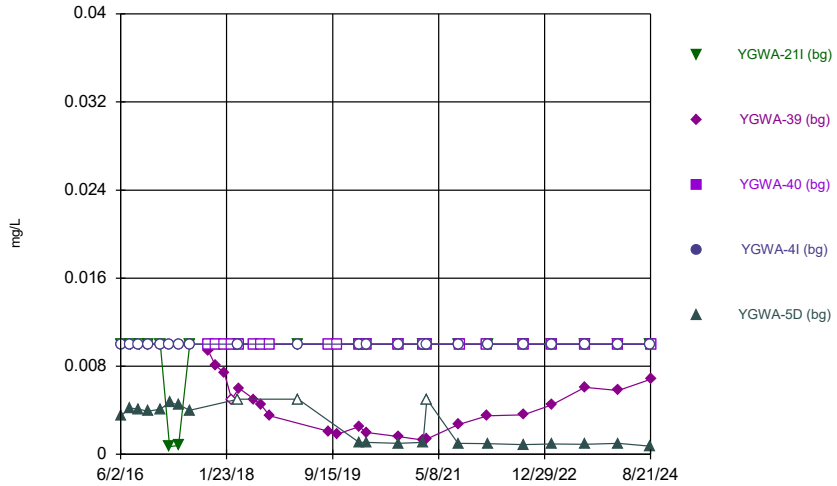
Time Series



Constituent: Molybdenum Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

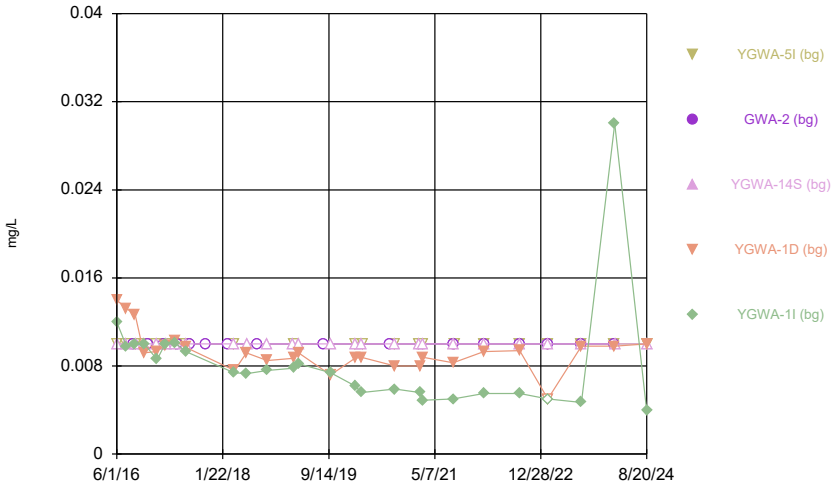
Time Series



Constituent: Molybdenum Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

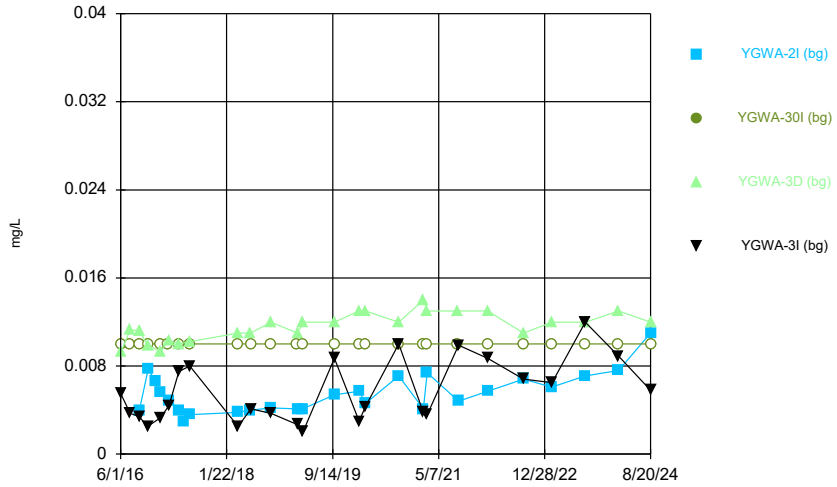
Time Series



Constituent: Molybdenum Analysis Run 10/24/2024 3:29 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

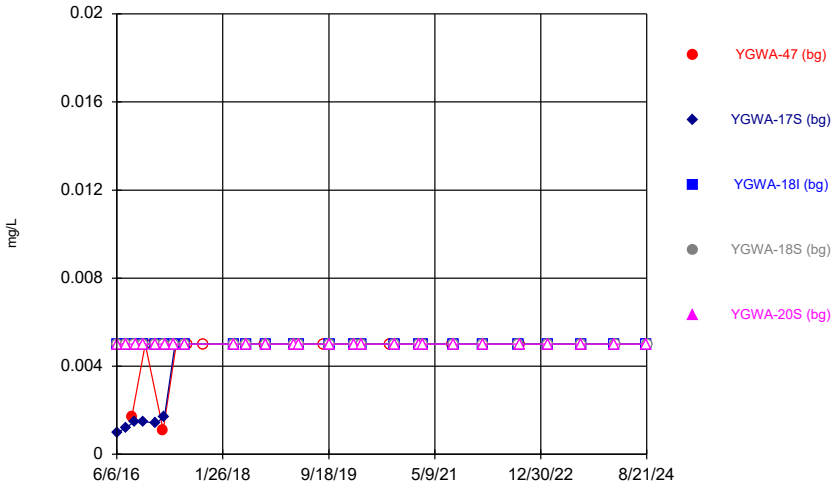
Time Series



Constituent: Molybdenum Analysis Run 10/24/2024 3:29 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

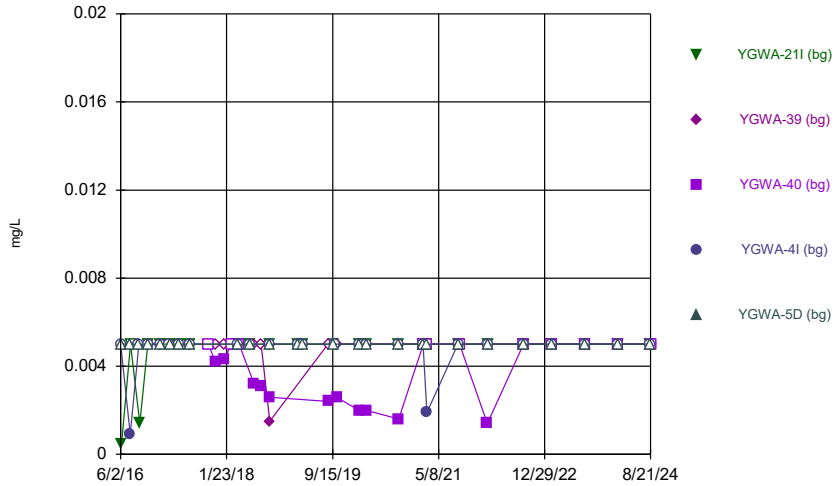
Time Series



Constituent: Selenium Analysis Run 10/24/2024 3:29 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

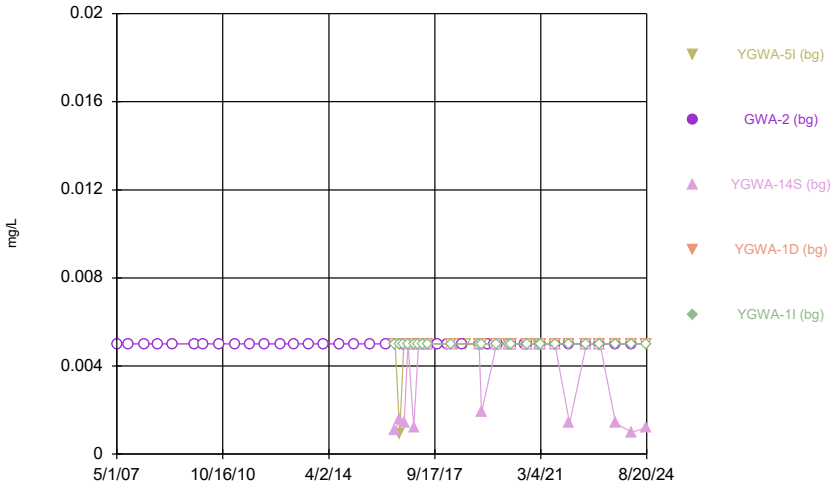
Time Series



Constituent: Selenium Analysis Run 10/24/2024 3:29 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

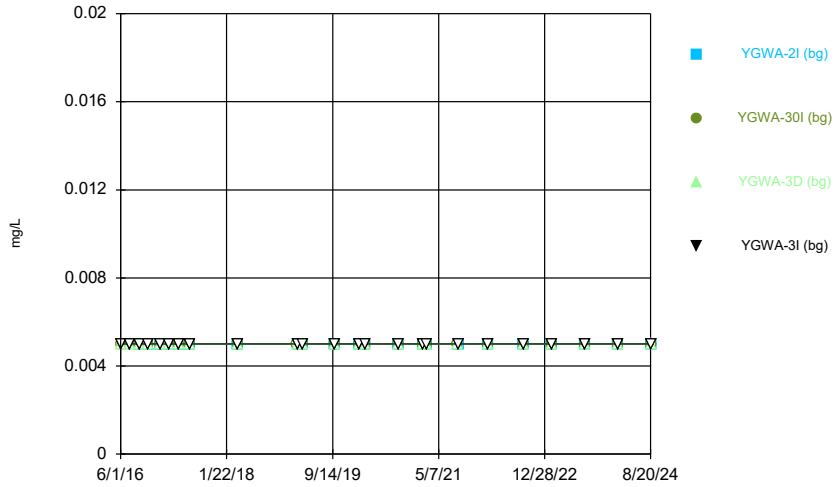
Time Series



Constituent: Selenium Analysis Run 10/24/2024 3:29 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

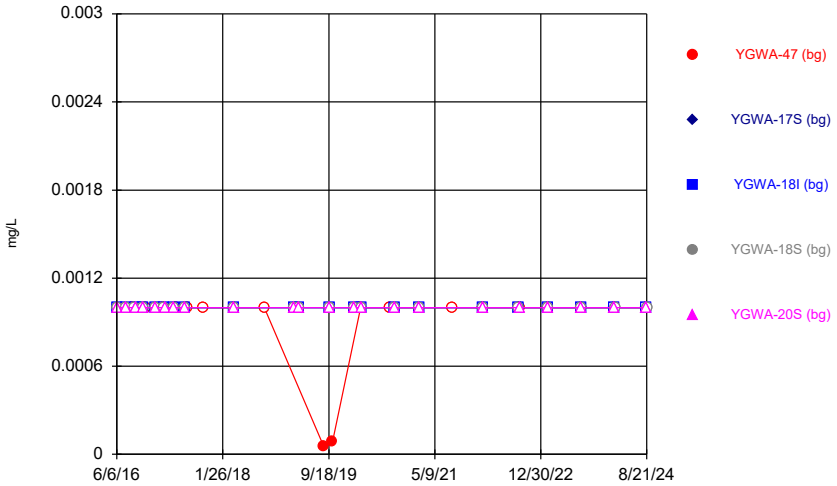
Time Series



Constituent: Selenium Analysis Run 10/24/2024 3:29 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

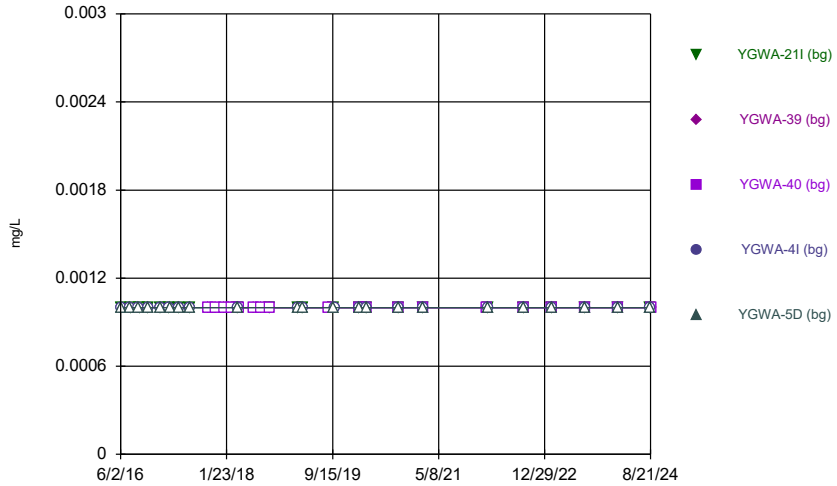
Time Series



Constituent: Thallium Analysis Run 10/24/2024 3:29 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

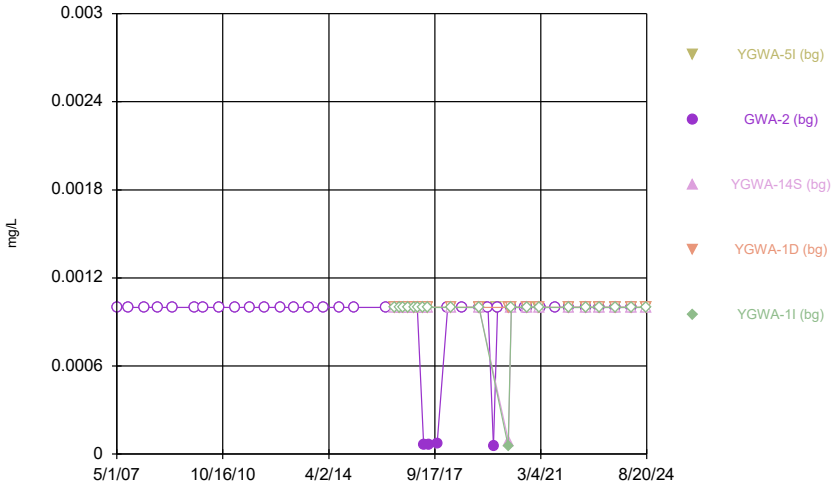
Time Series



Constituent: Thallium Analysis Run 10/24/2024 3:29 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

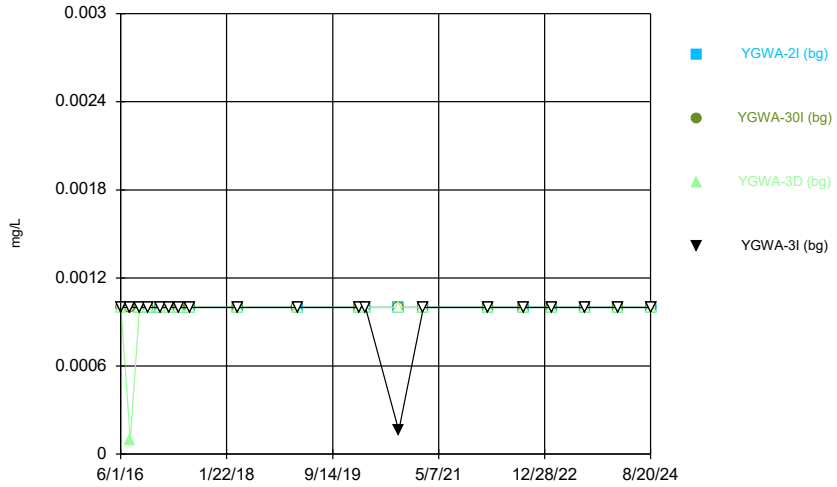
Time Series



Constituent: Thallium Analysis Run 10/24/2024 3:29 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

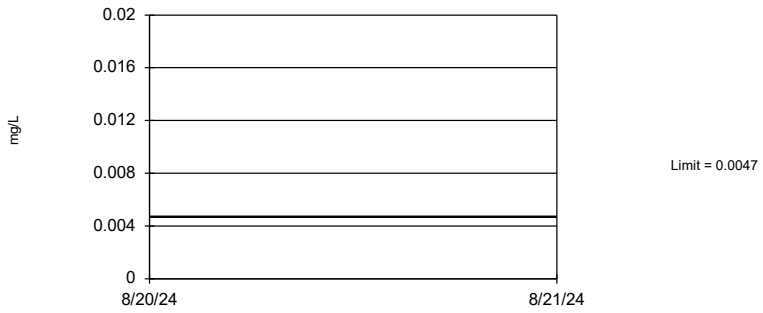


Constituent: Thallium Analysis Run 10/24/2024 3:29 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 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 447 background values. 88.14% 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: Antimony Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

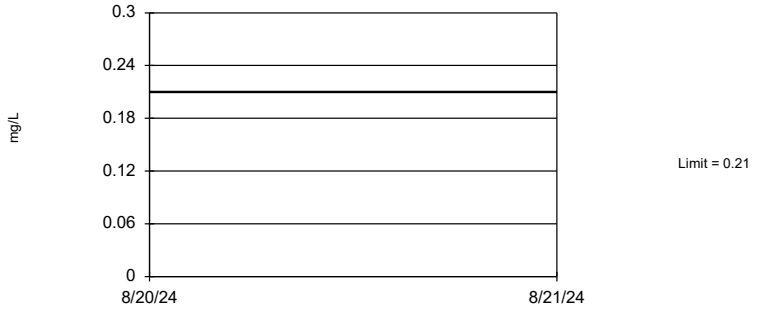
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 495 background values. 75.35% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



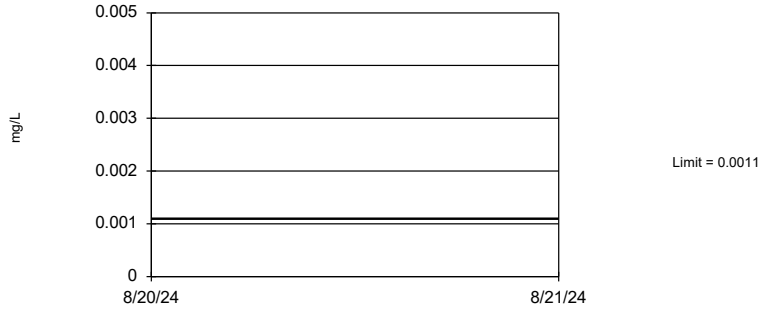
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 495 background values. 2.222% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



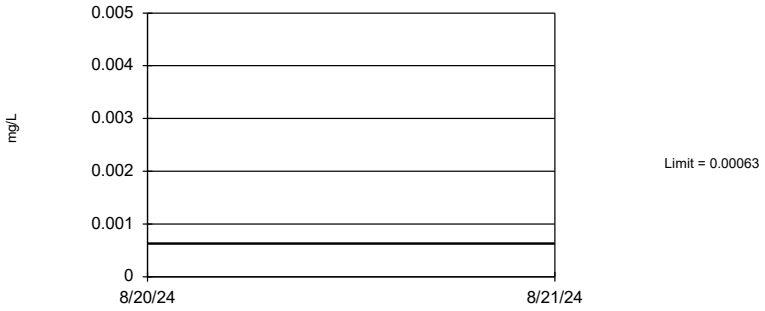
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 479 background values. 80.17% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



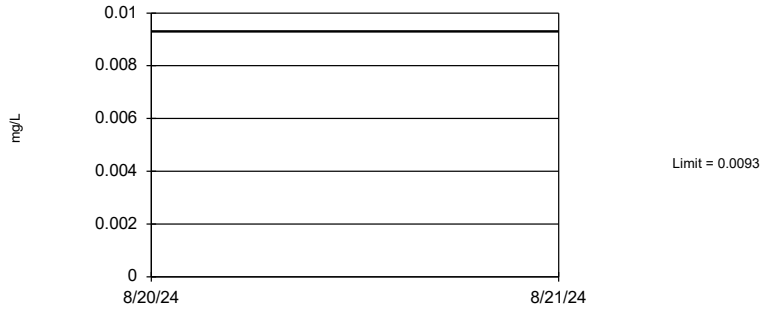
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 479 background values. 94.99% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



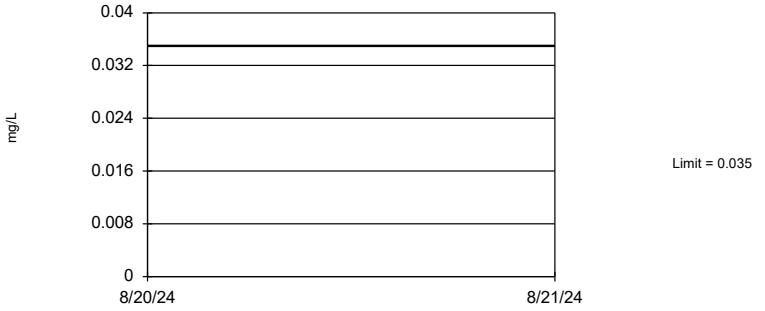
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 447 background values. 82.33% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



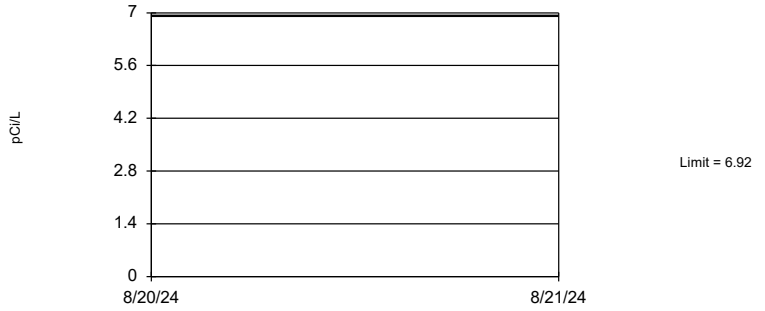
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 489 background values. 68.92% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



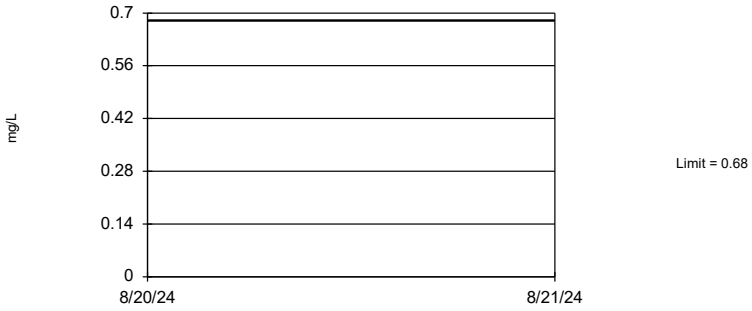
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 474 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



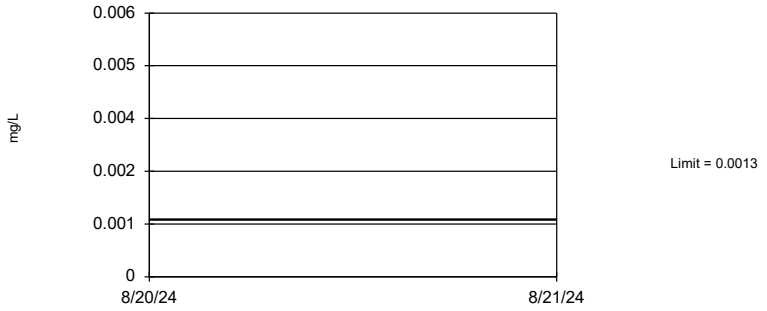
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 494 background values. 62.96% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride, total Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 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 449 background values. 87.75% 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 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

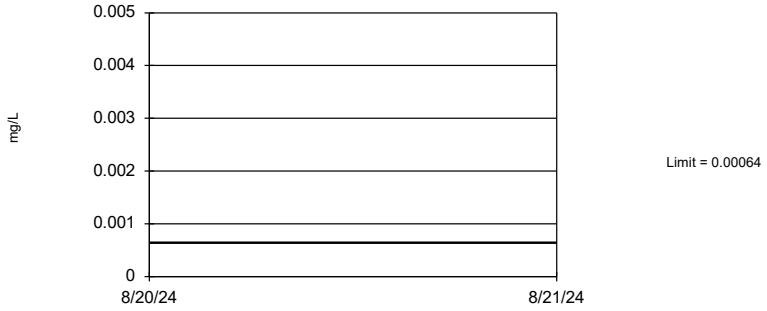
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 474 background values. 27.43% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 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 403 background values. 89.58% 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: Mercury Analysis Run 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 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 438 background values. 61.19% 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 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 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 477 background values. 92.87% 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 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23 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 413 background values. 97.58% 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 10/24/2024 3:22 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

FIGURE H.

YATES ASH POND 1 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE I.

Confidence Interval Summary Table - All Results (No Significant)

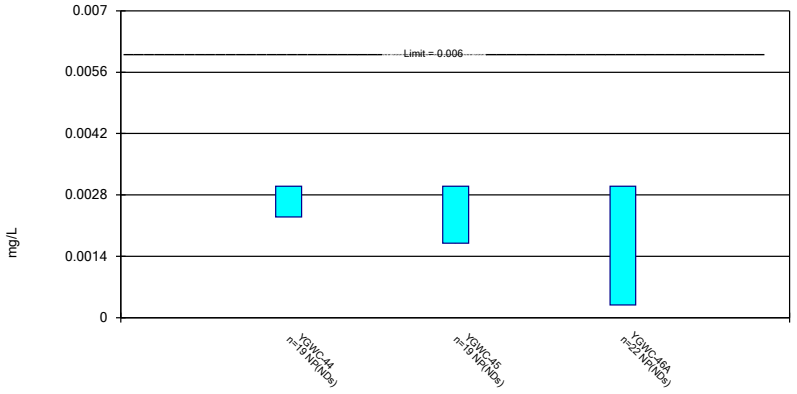
Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/6/2024, 6:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-44	0.003	0.0023	0.006	No	19	0.002963	0.0001606	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-45	0.003	0.0017	0.006	No	19	0.002932	0.0002982	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-46A	0.003	0.00029	0.006	No	22	0.002877	0.0005778	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-44	0.005	0.00097	0.01	No	21	0.003906	0.001839	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-45	0.005	0.0028	0.01	No	21	0.004072	0.001754	76.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-46A	0.005	0.001	0.01	No	24	0.002688	0.001878	37.5	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-52	0.005	0.0044	0.01	No	12	0.00495	0.0001732	91.67	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-44	0.1076	0.08756	2	No	21	0.09757	0.01815	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-45	0.06668	0.05499	2	No	21	0.06083	0.01059	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-46A	0.04624	0.04069	2	No	13	0.04346	0.003733	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-52	0.01979	0.01754	2	No	12	0.01867	0.001435	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-46A	0.0005	0.00012	0.005	No	21	0.0004448	0.0001387	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-44	0.005	0.0021	0.1	No	19	0.004847	0.0006653	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-45	0.0061	0.0006	0.1	No	19	0.004594	0.001433	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-52	0.005	0.00086	0.1	No	12	0.003402	0.002002	58.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-44	0.003085	0.001505	0.035	No	21	0.002731	0.00247	4.762	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-45	0.0007951	0.0006149	0.035	No	20	0.000705	0.0001587	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-46A	0.002142	0.0008178	0.035	No	13	0.001562	0.00112	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	YGWC-52	0.001775	0.0008531	0.035	No	12	0.001314	0.0005876	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-44	0.8506	0.3014	6.92	No	21	0.6502	0.5817	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-45	1.429	0.9673	6.92	No	21	1.198	0.4185	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-46A	1.752	1.184	6.92	No	24	1.468	0.5566	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-52	0.862	0.268	6.92	No	11	0.6055	0.2913	0	None	No	0.006	NP (normality)
Fluoride, total (mg/L)	YGWC-44	0.1	0.07	4	No	22	0.09305	0.01865	77.27	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	YGWC-45	0.1541	0.07845	4	No	22	0.1825	0.1548	18.18	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	YGWC-46A	0.17	0.11	4	No	25	0.1531	0.09538	20	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	YGWC-52	0.1	0.059	4	No	12	0.08967	0.01879	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-45	0.001	0.0001	0.015	No	19	0.0009526	0.0002065	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-46A	0.001	0.000044	0.015	No	22	0.0009565	0.0002038	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-52	0.001	0.000064	0.015	No	12	0.0006919	0.0004551	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-44	0.01337	0.0124	0.04	No	21	0.01289	0.0008794	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-45	0.01356	0.01186	0.04	No	21	0.01277	0.001623	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	YGWC-46A	0.01357	0.0115	0.04	No	13	0.01254	0.001391	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-52	0.004429	0.003688	0.04	No	12	0.004058	0.0004719	0	None	No	0.01	Param.
Mercury (mg/L)	YGWC-44	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-45	0.0002	0.000071	0.002	No	17	0.0001924	0.00003129	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-46A	0.0002	0.00007	0.002	No	19	0.0001932	0.00002982	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-44	0.01	0.0005	0.1	No	21	0.009548	0.002073	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-45	0.0018	0.0011	0.1	No	21	0.001845	0.00136	14.29	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-46A	0.003236	0.002014	0.1	No	24	0.002625	0.001198	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-52	0.01	0.00083	0.1	No	12	0.009236	0.002647	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-44	0.001	0.00008	0.002	No	19	0.0009516	0.0002111	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-46A	0.001	0.000073	0.002	No	21	0.0009559	0.0002023	95.24	None	No	0.01	NP (NDs)

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

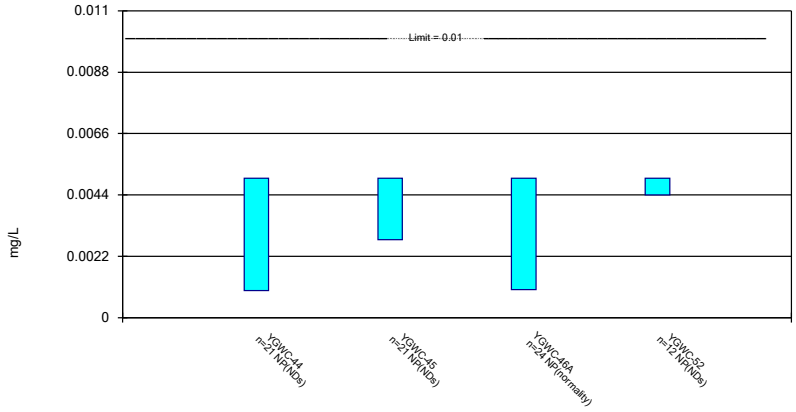


Constituent: Antimony Analysis Run 11/6/2024 6:33 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

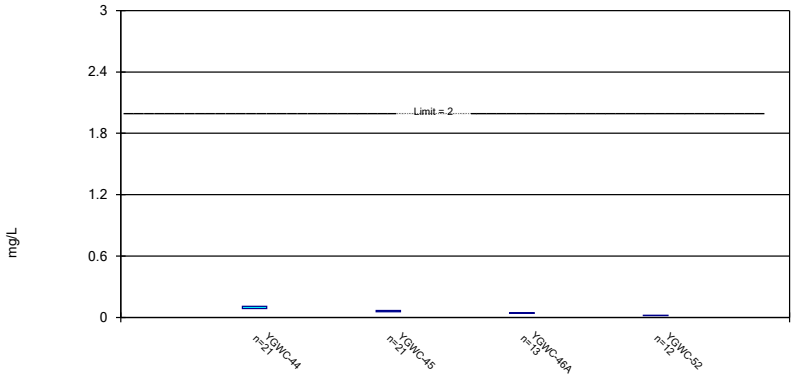


Constituent: Arsenic Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a 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.

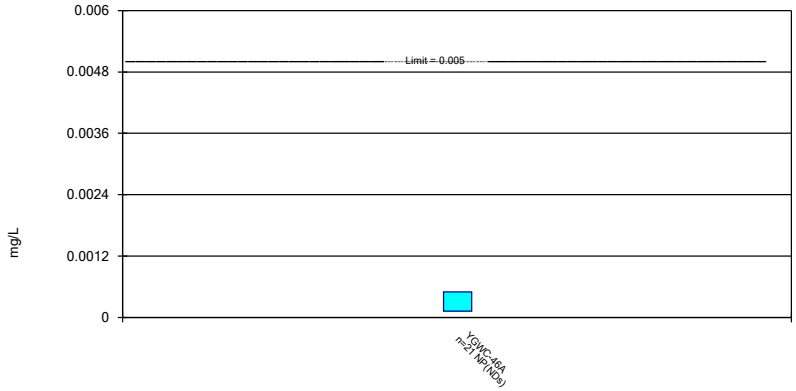


Constituent: Barium Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

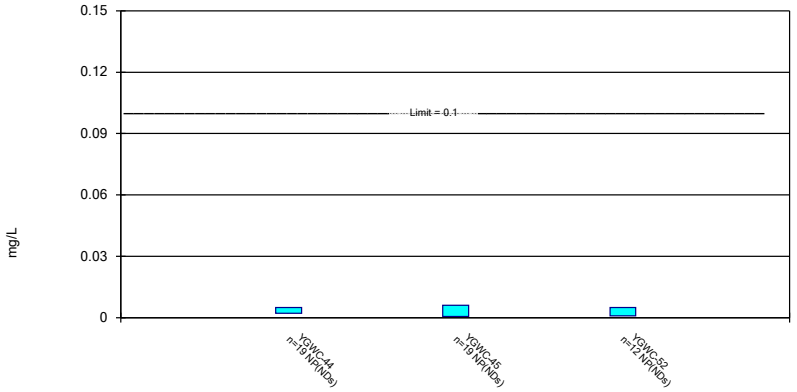


Constituent: Cadmium Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

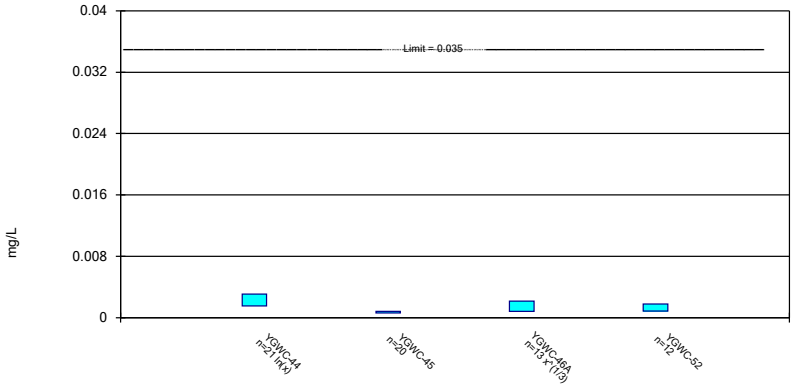


Constituent: Chromium Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a 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.

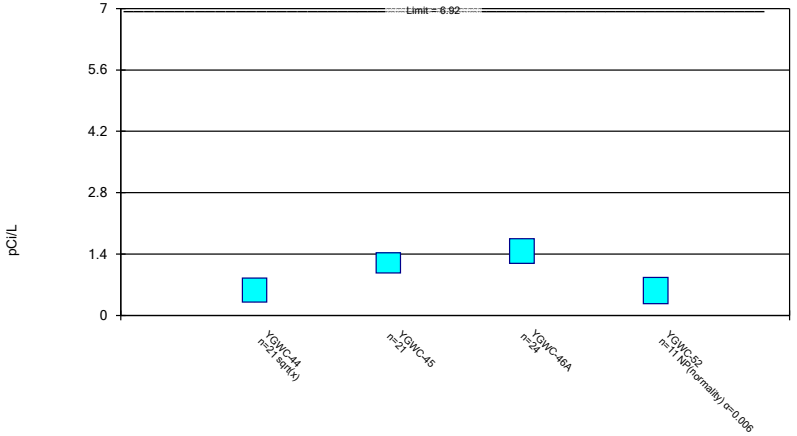


Constituent: Cobalt Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a 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.

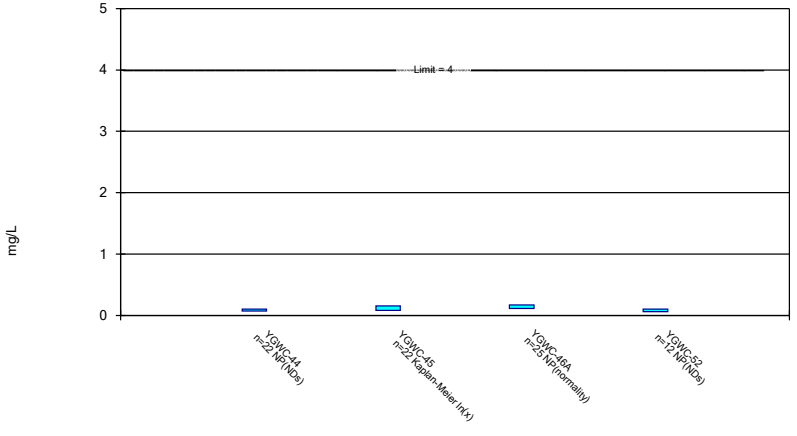


Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confiden
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a 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.

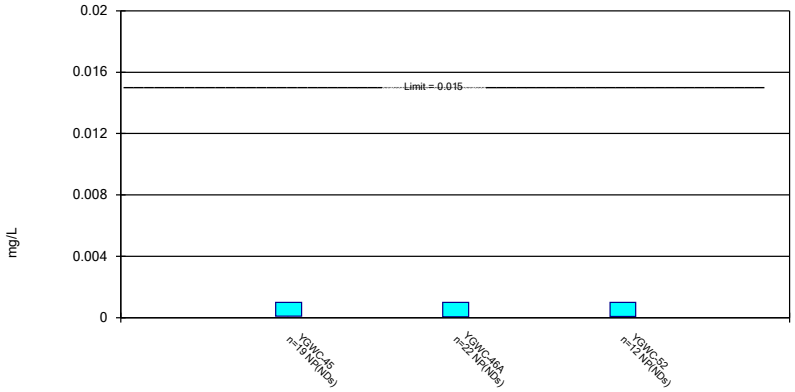


Constituent: Fluoride, total Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

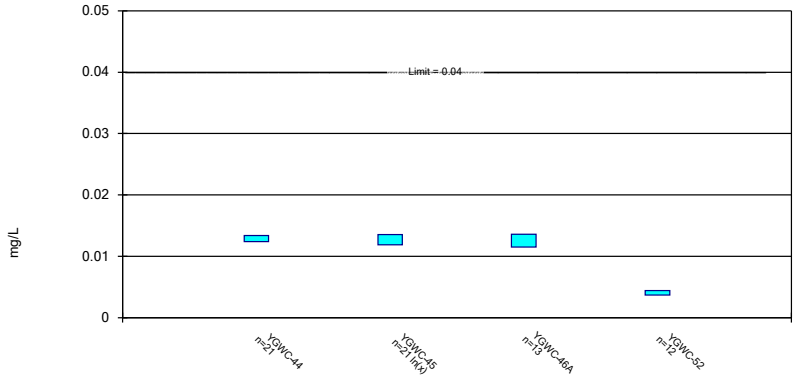


Constituent: Lead Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a 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.

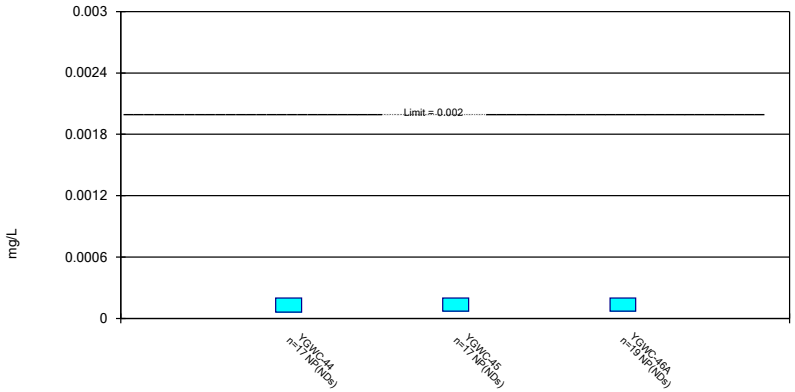


Constituent: Lithium Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

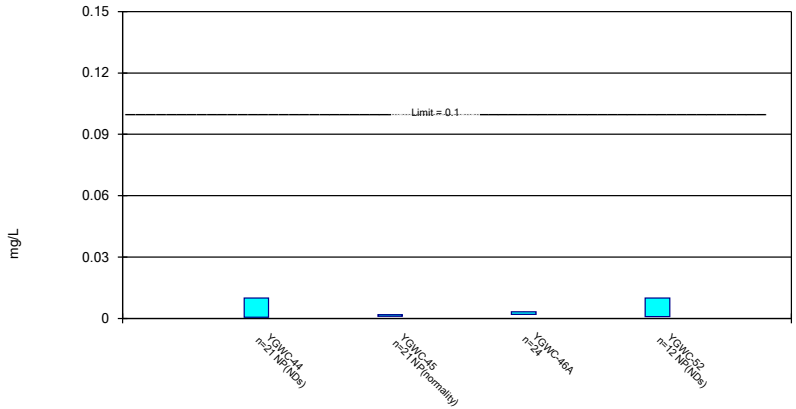


Constituent: Mercury Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a 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.

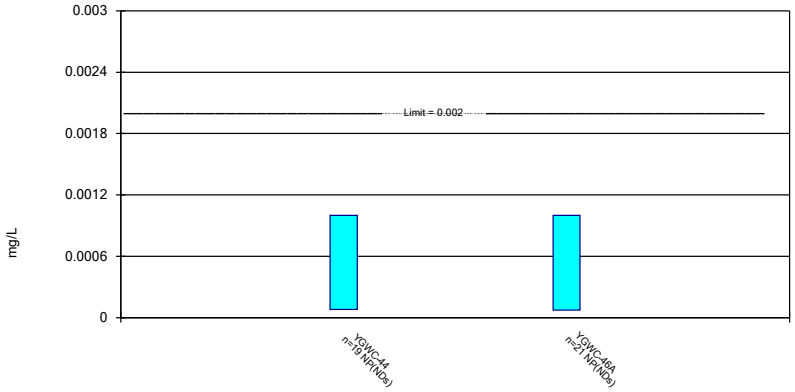


Constituent: Molybdenum Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A
8/31/2016	<0.003	<0.003	
9/1/2016			<0.003
11/14/2016		<0.003	
11/15/2016	<0.003		
11/16/2016			<0.003
2/27/2017		<0.003	<0.003
2/28/2017	<0.003		
5/8/2017	<0.003		<0.003
5/9/2017		<0.003	
7/13/2017	<0.003	<0.003	<0.003
10/10/2017	<0.003	<0.003	
10/11/2017			<0.003
4/3/2018		<0.003	
4/4/2018	<0.003		<0.003
9/19/2018	<0.003	<0.003	<0.003
8/20/2019	<0.003	<0.003	
8/21/2019			<0.003
7/6/2020			<0.003
8/27/2020	<0.003		
8/28/2020		0.0017 (J)	0.00029 (J)
9/22/2020	<0.003		
9/23/2020		<0.003	<0.003
10/7/2020			<0.003
11/12/2020			<0.003
3/1/2021	<0.003	<0.003	
3/2/2021			<0.003
8/19/2021	<0.003	<0.003	
8/27/2021			<0.003
2/9/2022	<0.003	<0.003	<0.003
8/31/2022	<0.003	<0.003	<0.003
2/8/2023	<0.003		
2/9/2023		<0.003	
2/10/2023			<0.003
8/15/2023	0.0023 (J)	<0.003	<0.003
2/21/2024	<0.003	<0.003	<0.003
8/21/2024	<0.003	<0.003	<0.003
Mean	0.002963	0.002932	0.002877
Std. Dev.	0.0001606	0.0002982	0.0005778
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.0023	0.0017	0.00029

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.005	<0.005		
9/1/2016			<0.005	
11/14/2016		<0.005		
11/15/2016	<0.005			
11/16/2016			<0.005	
2/27/2017		<0.005	<0.005	
2/28/2017	0.0005 (J)			
5/8/2017	0.0006 (J)		0.0007 (J)	
5/9/2017		<0.005		
7/13/2017	<0.005	<0.005	0.0011 (J)	
10/10/2017	0.0007 (J)	0.0006 (J)		
10/11/2017			0.0011 (J)	
4/3/2018		0.00061 (J)		
4/4/2018	<0.005		0.00087 (J)	
9/19/2018	0.00086 (J)	0.00072 (J)	0.0012 (J)	
8/20/2019	0.00097 (J)	0.00078 (J)		
8/21/2019			0.00074 (J)	
10/8/2019	<0.005			
10/9/2019		<0.005	<0.005	
3/17/2020	<0.005	<0.005	<0.005	
7/6/2020			0.00079 (J)	
8/27/2020	<0.005			<0.005
8/28/2020		<0.005	0.0015 (J)	
9/22/2020	<0.005			<0.005
9/23/2020		<0.005	0.00091 (J)	
10/7/2020			0.001 (J)	<0.005
11/12/2020			0.0014 (J)	<0.005
3/1/2021	<0.005	<0.005		<0.005
3/2/2021			0.0016 (J)	
8/19/2021	<0.005	<0.005		
8/20/2021				<0.005
8/27/2021			0.0022 (J)	
2/9/2022	<0.005	<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005	<0.005
2/8/2023	<0.005			
2/9/2023		<0.005		
2/10/2023			<0.005	<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005
2/21/2024	0.0041 (J)	0.0028 (J)	0.0024 (J)	0.0044 (J)
8/21/2024	0.0043 (J)	<0.005	0.002 (J)	
8/22/2024				<0.005
Mean	0.003906	0.004072	0.002688	0.00495
Std. Dev.	0.001839	0.001754	0.001878	0.0001732
Upper Lim.	0.005	0.005	0.005	0.005
Lower Lim.	0.00097	0.0028	0.001	0.0044

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.126	0.0754		
9/1/2016			0.0414	
11/14/2016		0.0701		
11/15/2016	0.115			
11/16/2016			0.0365	
2/27/2017		0.0834	0.0326	
2/28/2017	0.121			
5/8/2017	0.125		0.0332	
5/9/2017		0.0779		
7/13/2017	0.106	0.0719	0.0365	
10/10/2017	0.112	0.0708		
10/11/2017			0.0288	
4/3/2018		0.068		
4/4/2018	0.12		0.025	
9/19/2018	0.11	0.064	0.03	
8/20/2019	0.1	0.057		
8/21/2019			0.023	
10/8/2019	0.098			
10/9/2019		0.058	0.024	
3/17/2020	0.099	0.061	0.022	
7/6/2020			0.048	
8/27/2020	0.086			0.021
8/28/2020		0.053	0.05	
9/22/2020	0.096			0.021
9/23/2020		0.052	0.045	
10/7/2020			0.042	0.019
11/12/2020			0.042	0.019
3/1/2021	0.087	0.055		0.019
3/2/2021			0.044	
8/19/2021	0.089	0.055		
8/20/2021				0.019
8/27/2021			0.043	
2/9/2022	0.083	0.053	0.042	0.018
8/31/2022	0.073	0.052	0.036	0.017
2/8/2023	0.081			
2/9/2023		0.049		
2/10/2023			0.041	0.016
8/15/2023	0.084	0.049	0.04	0.019
2/21/2024	0.069	0.048	0.044	0.018
8/21/2024	0.069	0.054	0.048	
8/22/2024				0.018
Mean	0.09757	0.06083	0.04346	0.01867
Std. Dev.	0.01815	0.01059	0.003733	0.001435
Upper Lim.	0.1076	0.06668	0.04624	0.01979
Lower Lim.	0.08756	0.05499	0.04069	0.01754

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A
9/1/2016	<0.0005
11/16/2016	<0.0005
2/27/2017	<0.0005
5/8/2017	0.0001 (J)
7/13/2017	<0.0005
10/11/2017	<0.0005
4/4/2018	<0.0005
9/19/2018	<0.0005
8/21/2019	0.00012 (J)
10/9/2019	<0.0005
3/17/2020	0.00012 (J)
7/6/2020	<0.0005
8/28/2020	<0.0005
11/12/2020	<0.0005
8/27/2021	<0.0005
2/9/2022	<0.0005
8/31/2022	<0.0005
2/10/2023	<0.0005
8/15/2023	<0.0005
2/21/2024	<0.0005
8/21/2024	<0.0005
Mean	0.0004448
Std. Dev.	0.0001387
Upper Lim.	0.0005
Lower Lim.	0.00012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-52
8/31/2016	<0.005	<0.005	
11/14/2016		0.0061 (J)	
11/15/2016	<0.005		
2/27/2017		<0.005	
2/28/2017	<0.005		
5/8/2017	<0.005		
5/9/2017		<0.005	
7/13/2017	<0.005	0.0006 (J)	
10/10/2017	<0.005	<0.005	
4/3/2018		<0.005	
4/4/2018	<0.005		
9/19/2018	<0.005	<0.005	
8/20/2019	<0.005	<0.005	
8/27/2020	<0.005		<0.005
8/28/2020		<0.005	
9/22/2020	<0.005		0.00073 (J)
9/23/2020		0.00058 (J)	
10/7/2020			0.00086 (J)
11/12/2020			<0.005
3/1/2021	<0.005	<0.005	0.00094 (J)
8/19/2021	<0.005	<0.005	
8/20/2021			<0.005
2/9/2022	<0.005	<0.005	0.0012 (J)
8/31/2022	<0.005	<0.005	<0.005
2/8/2023	<0.005		
2/9/2023		<0.005	
2/10/2023			0.0021 (J)
8/15/2023	<0.005	<0.005	<0.005
2/21/2024	0.0021 (J)	<0.005	<0.005
8/21/2024	<0.005	<0.005	
8/22/2024			<0.005
Mean	0.004847	0.004594	0.003402
Std. Dev.	0.0006653	0.001433	0.002002
Upper Lim.	0.005	0.0061	0.005
Lower Lim.	0.0021	0.0006	0.00086

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.0119	0.0009 (J)		
9/1/2016			0.0171	
11/14/2016		0.0009 (J)		
11/15/2016	0.0033 (J)			
11/16/2016			0.0145	
2/27/2017		0.001 (J)	0.0161	
2/28/2017	0.0017 (J)			
5/8/2017	0.0018 (J)		0.0367	
5/9/2017		0.0008 (J)		
7/13/2017	0.0022 (J)	0.0009 (J)	0.0265	
10/10/2017	0.0017 (J)	0.0008 (J)		
10/11/2017			0.0556	
4/3/2018		<0.01 (O)		
4/4/2018	<0.005		0.025	
9/19/2018	0.0025 (J)	0.00081 (J)	0.042	
8/20/2019	0.002 (J)	0.00071 (J)		
8/21/2019			0.027	
10/8/2019	0.0017 (J)			
10/9/2019		0.0007 (J)	0.024	
3/17/2020	0.004 (J)	0.00081 (J)	0.022	
7/6/2020			0.0041 (J)	
8/27/2020	0.003 (J)			0.0022 (J)
8/28/2020		0.00055 (J)	0.0038 (J)	
9/22/2020	0.0065			0.0019 (J)
9/23/2020		0.00053 (J)	0.0015 (J)	
10/7/2020			0.0014 (J)	0.0019 (J)
11/12/2020			0.001 (J)	0.0015 (J)
3/1/2021	0.0033 (J)	0.00062 (J)		0.0013 (J)
3/2/2021			0.00096 (J)	
8/19/2021	0.0014 (J)	0.00048 (J)		
8/20/2021				0.0013 (J)
8/27/2021			0.00056 (J)	
2/9/2022	0.0027 (J)	0.00051 (J)	0.0006 (J)	0.0015 (J)
8/31/2022	0.00099 (J)	0.00069 (J)	0.0017 (J)	0.00096 (J)
2/8/2023	0.0014 (J)			
2/9/2023		0.00077 (J)		
2/10/2023			0.0016 (J)	0.00055 (J)
8/15/2023	0.00084 (J)	0.00053 (J)	0.0012 (J)	0.0017 (J)
2/21/2024	0.00093 (J)	0.00056 (J)	0.0011 (J)	0.00042 (J)
8/21/2024	0.001 (J)	0.00053 (J)	0.00078 (J)	
8/22/2024				0.00054 (J)
Mean	0.002731	0.000705	0.001562	0.001314
Std. Dev.	0.00247	0.0001587	0.00112	0.0005876
Upper Lim.	0.003085	0.0007951	0.002142	0.001775
Lower Lim.	0.001505	0.0006149	0.0008178	0.0008531

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	2.15	1.65		
9/1/2016			2.28	
11/14/2016		0.981 (U)		
11/15/2016	0.676 (U)			
11/16/2016			0.639 (U)	
11/28/2016			0.996	
2/27/2017		0.528 (U)	0.617 (U)	
2/28/2017	0.241 (U)			
5/8/2017	0.508 (U)		0.949	
5/9/2017		1.4		
7/13/2017	0.77 (U)	0.611 (U)	1.41	
10/10/2017	1.43	1.47		
10/11/2017			0.856 (U)	
4/3/2018		1.53		
4/4/2018	0.325 (U)		0.974	
9/19/2018	0.386 (U)	0.839 (U)	1.15 (U)	
8/20/2019	1.71	2.23		
8/21/2019			1.31	
10/8/2019	0.769 (U)			
10/9/2019		1.61	0.892 (U)	
3/17/2020	1.37	1.44	1.74	
7/6/2020			2.27	
8/27/2020	0.0859 (U)			0.852 (U)
8/28/2020		0.983 (U)	2.34	
9/22/2020	0.327 (U)			0.268 (U)
9/23/2020		0.746 (U)	0.575 (U)	
10/7/2020			1.81	0.819 (U)
3/1/2021	0.0694 (U)	1.28		0.846 (U)
3/2/2021			1.64	
8/19/2021	0.261 (U)	1.38		
8/20/2021				0.496 (U)
8/27/2021			1.83	
2/9/2022	0.332 (U)	1.11	1.74	0.926
8/31/2022	0.145 (U)	0.598 (U)	1.51	0.322 (U)
2/8/2023	0.193 (U)			
2/9/2023		1.29		
2/10/2023			1.92	0.786 (U)
8/15/2023	1.15	1.34	1.92	0.319 (U)
2/21/2024	0.345 (U)	0.857 (U)	2	0.164 (U)
8/21/2024	0.411 (U)	1.29	1.87	
8/22/2024				0.862 (U)
Mean	0.6502	1.198	1.468	0.6055
Std. Dev.	0.5817	0.4185	0.5566	0.2913
Upper Lim.	0.8506	1.429	1.752	0.862
Lower Lim.	0.3014	0.9673	1.184	0.268

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.1	0.11 (J)		
9/1/2016			0.08 (J)	
11/14/2016		0.71		
11/15/2016	0.12 (J)			
11/16/2016			0.04 (J)	
2/27/2017		0.22 (J)	0.05 (J)	
2/28/2017	0.07 (J)			
5/8/2017	0.04 (J)		0.004 (J)	
5/9/2017		0.2 (J)		
7/13/2017	<0.1	0.11 (J)	0.35	
10/10/2017	<0.1	0.39		
10/11/2017			<0.3	
4/3/2018		<0.3		
4/4/2018	<0.1		<0.3	
9/19/2018	<0.1	<0.3	<0.3	
3/27/2019	<0.1	0.18 (J)	0.12 (J)	
8/20/2019	<0.1	<0.3		
8/21/2019			<0.3	
10/8/2019	<0.1			
10/9/2019		<0.3	0.12 (J)	
3/17/2020	<0.1	0.076 (J)	<0.3	
7/6/2020			0.12	
8/27/2020	<0.1			<0.1
8/28/2020		0.07 (J)	0.12	
9/22/2020	<0.1			<0.1
9/23/2020		0.082 (J)	0.12	
10/7/2020			0.13	<0.1
11/12/2020			0.084 (J)	<0.1
3/1/2021	<0.1	0.073 (J)		<0.1
3/2/2021			0.12	
8/19/2021	<0.1	0.075 (J)		
8/20/2021				<0.1
8/27/2021			0.13	
2/9/2022	<0.1	0.063 (J)	0.12	<0.1
8/31/2022	0.055 (J)	0.1	0.12	0.059 (J)
2/8/2023	0.062 (J)			
2/9/2023		0.11		
2/10/2023			0.17	0.063 (J)
8/15/2023	<0.1	0.07 (J)	0.12	<0.1
2/21/2024	<0.1	0.099 (J)	0.11	0.054 (J)
8/21/2024	<0.1	0.077 (J)	0.1	
8/22/2024				<0.1
Mean	0.09305	0.1825	0.1531	0.08967
Std. Dev.	0.01865	0.1548	0.09538	0.01879
Upper Lim.	0.1	0.1541	0.17	0.1
Lower Lim.	0.07	0.07845	0.11	0.059

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.001		
9/1/2016		<0.001	
11/14/2016	<0.001		
11/16/2016		<0.001	
2/27/2017	<0.001	<0.001	
5/8/2017		<0.001	
5/9/2017	0.0001 (J)		
7/13/2017	<0.001	<0.001	
10/10/2017	<0.001		
10/11/2017		<0.001	
4/3/2018	<0.001		
4/4/2018		<0.001	
9/19/2018	<0.001	<0.001	
8/20/2019	<0.001		
8/21/2019		<0.001	
7/6/2020		<0.001	
8/27/2020			9.2E-05 (J)
8/28/2020	<0.001	<0.001	
9/22/2020			6E-05 (J)
9/23/2020	<0.001	<0.001	
10/7/2020		<0.001	<0.001
11/12/2020		4.4E-05 (J)	6.4E-05 (J)
3/1/2021	<0.001		8.7E-05 (J)
3/2/2021		<0.001	
8/19/2021	<0.001		
8/20/2021			<0.001
8/27/2021		<0.001	
2/9/2022	<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001
2/9/2023	<0.001		
2/10/2023		<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001
2/21/2024	<0.001	<0.001	<0.001
8/21/2024	<0.001	<0.001	
8/22/2024			<0.001
Mean	0.0009526	0.0009565	0.0006919
Std. Dev.	0.0002065	0.0002038	0.0004551
Upper Lim.	0.001	0.001	0.001
Lower Lim.	0.0001	4.4E-05	6.4E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.0115 (J)	0.0147 (J)		
9/1/2016			0.0077 (J)	
11/14/2016		0.0175 (J)		
11/15/2016	0.0148 (J)			
11/16/2016			0.0075 (J)	
2/27/2017		0.0135 (J)	0.0084 (J)	
2/28/2017	0.0124 (J)			
5/8/2017	0.0132 (J)		0.0087 (J)	
5/9/2017		0.0136 (J)		
7/13/2017	0.0124 (J)	0.0129 (J)	0.0104 (J)	
10/10/2017	0.0123 (J)	0.015 (J)		
10/11/2017			0.0099 (J)	
4/3/2018		0.014 (J)		
4/4/2018	0.014 (J)		0.012 (J)	
9/19/2018	0.013 (J)	0.012 (J)	0.011 (J)	
8/20/2019	0.013 (J)	0.012 (J)		
8/21/2019			0.0076 (J)	
10/8/2019	0.012 (J)			
10/9/2019		0.012 (J)	0.0078 (J)	
3/17/2020	0.013 (J)	0.014 (J)	0.0071 (J)	
7/6/2020			0.011 (J)	
8/27/2020	0.013 (J)			0.0048 (J)
8/28/2020		0.012 (J)	0.012 (J)	
9/22/2020	0.013 (J)			0.0046 (J)
9/23/2020		0.012 (J)	0.013 (J)	
10/7/2020			0.011 (J)	0.0041 (J)
11/12/2020			0.014 (J)	0.0044 (J)
3/1/2021	0.013 (J)	0.012 (J)		0.0043 (J)
3/2/2021			0.013 (J)	
8/19/2021	0.013 (J)	0.012 (J)		
8/20/2021				0.0043 (J)
8/27/2021			0.014 (J)	
2/9/2022	0.014 (J)	0.012 (J)	0.014 (J)	0.0042 (J)
8/31/2022	0.013 (J)	0.012 (J)	0.015 (J)	0.0037 (J)
2/8/2023	0.014 (J)			
2/9/2023		0.01 (J)		
2/10/2023			0.011 (J)	0.0033 (J)
8/15/2023	0.013 (J)	0.012 (J)	0.012 (J)	0.004 (J)
2/21/2024	0.012 (J)	0.012 (J)	0.012 (J)	0.0036 (J)
8/21/2024	0.011 (J)	0.011 (J)	0.011 (J)	
8/22/2024				0.0034 (J)
Mean	0.01289	0.01277	0.01254	0.004058
Std. Dev.	0.0008794	0.001623	0.001391	0.0004719
Upper Lim.	0.01337	0.01356	0.01357	0.004429
Lower Lim.	0.0124	0.01186	0.0115	0.003688

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A
8/31/2016	<0.0002	<0.0002	
9/1/2016			<0.0002
11/14/2016		<0.0002	
11/15/2016	<0.0002		
11/16/2016			<0.0002
2/27/2017		<0.0002	<0.0002
2/28/2017	<0.0002		
5/8/2017	<0.0002		<0.0002
5/9/2017		<0.0002	
7/13/2017	<0.0002	<0.0002	<0.0002
10/10/2017	<0.0002	<0.0002	
10/11/2017			<0.0002
4/3/2018		<0.0002	
4/4/2018	<0.0002		<0.0002
9/19/2018	6E-05 (J)	7.1E-05 (J)	7E-05 (J)
8/20/2019	<0.0002	<0.0002	
8/21/2019			<0.0002
7/6/2020			<0.0002
8/27/2020	<0.0002		
8/28/2020		<0.0002	<0.0002
11/12/2020			<0.0002
8/19/2021	<0.0002	<0.0002	
8/27/2021			<0.0002
2/9/2022	<0.0002	<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002	<0.0002
2/8/2023	<0.0002		
2/9/2023		<0.0002	
2/10/2023			<0.0002
8/15/2023	<0.0002	<0.0002	<0.0002
2/21/2024	<0.0002	<0.0002	<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002
Mean	0.0001918	0.0001924	0.0001932
Std. Dev.	3.395E-05	3.129E-05	2.982E-05
Upper Lim.	0.0002	0.0002	0.0002
Lower Lim.	6E-05	7.1E-05	7E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.01	0.0024 (J)		
9/1/2016			<0.01	
11/14/2016		<0.01		
11/15/2016	<0.01			
11/16/2016			<0.01	
2/27/2017		0.0018 (J)	<0.01	
2/28/2017	0.0005 (J)			
5/8/2017	<0.01		0.0008 (J)	
5/9/2017		0.0015 (J)		
7/13/2017	<0.01	0.0015 (J)	0.0015 (J)	
10/10/2017	<0.01	0.0015 (J)		
10/11/2017			0.002 (J)	
4/3/2018		<0.01		
4/4/2018	<0.01		0.0021 (J)	
9/19/2018	<0.01	<0.01	0.0039 (J)	
8/20/2019	<0.01	0.0011 (J)		
8/21/2019			0.0012 (J)	
10/8/2019	<0.01			
10/9/2019		0.0012 (J)	0.0013 (J)	
3/17/2020	<0.01	0.0016 (J)	0.0015 (J)	
7/6/2020			0.0026 (J)	
8/27/2020	<0.01			<0.01
8/28/2020		0.0013 (J)	0.003 (J)	
9/22/2020	<0.01			<0.01
9/23/2020		0.0011 (J)	0.0025 (J)	
10/7/2020			0.0024 (J)	<0.01
11/12/2020			0.0019 (J)	<0.01
3/1/2021	<0.01	0.0012 (J)		<0.01
3/2/2021			0.0023 (J)	
8/19/2021	<0.01	0.0012 (J)		
8/20/2021				<0.01
8/27/2021			0.0022 (J)	
2/9/2022	<0.01	0.0012 (J)	0.0021 (J)	<0.01
8/31/2022	<0.01	0.0011 (J)	0.0017 (J)	<0.01
2/8/2023	<0.01			
2/9/2023		0.00097 (J)		
2/10/2023			0.0029 (J)	0.00083 (J)
8/15/2023	<0.01	0.0011 (J)	0.0031 (J)	<0.01
2/21/2024	<0.01	0.00098 (J)	0.0032 (J)	<0.01
8/21/2024	<0.01	0.001 (J)	0.0038 (J)	
8/22/2024				<0.01
Mean	0.009548	0.001845	0.002625	0.009236
Std. Dev.	0.002073	0.00136	0.001198	0.002647
Upper Lim.	0.01	0.0018	0.003236	0.01
Lower Lim.	0.0005	0.0011	0.002014	0.00083

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-46A
8/31/2016	<0.001	
9/1/2016		<0.001
11/15/2016	<0.001	
11/16/2016		<0.001
2/27/2017		<0.001
2/28/2017	<0.001	
5/8/2017	<0.001	<0.001
7/13/2017	<0.001	<0.001
10/10/2017	<0.001	
10/11/2017		<0.001
4/4/2018	<0.001	<0.001
9/19/2018	<0.001	<0.001
8/20/2019	<0.001	
8/21/2019		<0.001
10/8/2019	<0.001	
10/9/2019		<0.001
3/17/2020	8E-05 (J)	<0.001
7/6/2020		7.3E-05 (J)
8/27/2020	<0.001	
8/28/2020		<0.001
11/12/2020		<0.001
8/19/2021	<0.001	
8/27/2021		<0.001
2/9/2022	<0.001	<0.001
8/31/2022	<0.001	<0.001
2/8/2023	<0.001	
2/10/2023		<0.001
8/15/2023	<0.001	<0.001
2/21/2024	<0.001	<0.001
8/21/2024	<0.001	<0.001
Mean	0.0009516	0.0009559
Std. Dev.	0.0002111	0.0002023
Upper Lim.	0.001	0.001
Lower Lim.	8E-05	7.3E-05

ND substitution: RL or RL/2 if <15% NDs.

February 2025

GROUNDWATER STATS CONSULTING

July 31, 2025

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Yates Ash Pond 1 (AP-1)
February 2025 Sample Event Analysis

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2025 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016 at most wells. Semi-annual sampling of the majority of constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47
  - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I
  - **Gypsum Landfill:** GWA-2

        - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
    - **Downgradient wells:** YGWC-44, YGWC-45, YGWC-46A, and YGWC-52

Note that downgradient well YGWC-52 was installed in June 2020, and baseline sampling began in August 2020. Downgradient well YGWC-46 was abandoned in June 2020, and baseline sampling began at downgradient well YGWC-46A in July 2020 to supplement existing data in downgradient well YGWC-46. In the current analysis, reported observations from the February 2025 sample event at all downgradient wells are compared to interwell prediction limits for Appendix III constituents. Data from downgradient wells YGWC-46 and YGWC-46A were combined and are plotted under well YGWC-46A.

Confidence intervals have been used to evaluate the combined data from wells YGWC-46 and YGWC-46A for the Appendix IV constituents. When a minimum of 8 samples were collected from new well YGWC-46A, the Mann-Whitney test of medians was used to evaluate whether the medians of both wells were statistically different for Appendix IV constituents. In cases where statistically significant differences were identified at the 99% confidence level, the historical record was truncated so that only data from new well YGWC-46A, which may be more representative of present-day groundwater quality, are evaluated with confidence interval comparisons to respective Groundwater Protection Standards (GWPS). This process is described below.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Senior Statistician and Founder of Groundwater Stats Consulting. In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data were then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis. Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS will now be used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

The 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

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. Although upgradient well GWA-2 is no longer sampled, data from this well represent groundwater quality upgradient of the facility and are, therefore, plotted on time series and box plots and used to construct interwell prediction limits and upper tolerance limits.

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, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Summary of Statistical Methods – Appendix III and IV Parameters

Based on the April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after screening for any new outliers. In some cases, the earlier portion of data is deselected 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.

Summary of Background Screening – Appendix III and IV Constituents - Conducted in April 2019

Outlier Analysis

For the original well network which consisted of upgradient well YGWA-47 and downgradient wells YGWC-44, YGWC-45, and YGWC-46, time series plots were used to identify suspected outliers or extreme values that would result in limits that are not representative of the current background data population. All other upgradient well data from neighboring units were previously screened for outliers with their respective reports. Suspected outliers at all wells for Appendix III and IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. Tukey's test results followed the screening.

Using the Tukey box plot method, outliers were identified. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

The reported non-detect value of 0.01 mg/L for cobalt at well YGWC-45 and the detected value of 6.3 s.u. for pH at well YGWA-47 were flagged as outliers because the measurements were higher during a single event compared to all other values at neighboring wells. The high non-detect value for cobalt does not provide any useful information. When any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends can be identified by visual inspection, a quantification of the trend and its statistical significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at upgradient well YGWA-47 and downgradient wells YGWC-44, YGWC-45, and YGWC-46 to identify whether statistically significant increasing or decreasing trends were present. The trend analyses showed a statistically significant increasing trend for lithium in well YGWC-46, but no adjustments to the record were required.

The reports were submitted with the background screening analysis, and all other upgradient wells at neighboring units were evaluated for trends with their respective reports. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. While no records required adjustment at the time of the screening, if that is necessary in the future, a summary report will be provided to show the date ranges used in construction of the statistical limits.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) is typically used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach (interwell or intrawell). However, only one upgradient well was present at the time of the screening and the ANOVA requires a minimum of two wells. Therefore, the ANOVA was not utilized in the background screening.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Summary of Background Update Conducted in 2024

Outlier Analysis

Time series plots were used to identify suspected outliers or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. When the most recent value is identified as an outlier, values are not flagged in the database at this time as the measurements may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Using the Tukey's box plot method, several outliers were identified and both Tukey's test and visual screening confirmed values flagged from previous analyses. An exception is for one detected value of 6.3 s.u. for pH at upgradient well YGWA-47 that was previously flagged as an outlier because it was high during a single event compared to all other values at neighboring wells. However, when compared among pooled upgradient well data, this value is no longer spurious and was unflagged. Although not identified by Tukey's test due to the high percentage of non-detects, elevated concentrations for cobalt at upgradient well GWA-2 remain flagged to reduce variation in the record and maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective.

When any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits

will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends can be identified by visual inspection, a quantification of the trend and its statistical significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each upgradient well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed several statistically significant decreasing and increasing trends for the Appendix III and IV parameters. However, the trends noted were relatively low in magnitude compared to average pooled upgradient concentrations and, therefore, no adjustments were made to the data sets at this time. If the observed decreasing or increasing trends persist over a longer time frame and influence resulting statistical limits, some records may need to be truncated.

Statistical Analysis of Appendix III Parameters – February 2025

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. During a previous analysis, the data were not normally distributed when constructing the statistical limit for TDS; therefore, the highest value observed during the February 2024 event at upgradient well YGWA-5D was flagged for this constituent in order to maintain a statistical limit that is conservative from a regulatory perspective. As mentioned above, a previously flagged value for pH at upgradient well YGWA-47 was unflagged during this analysis. 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 pooled upgradient well data through February 2025 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2025 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result. 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 interwell prediction limits follows this letter. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-44 and YGWC-46A
- Calcium: YGWC-45 and YGWC-46A
- Chloride: YGWC-46A
- Sulfate: YGWC-45 and YGWC-46A
- TDS: YGWC-45 and YGWC-46A

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 for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of spatial variability in groundwater quality that is unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. The following statistically significant trends were identified:

Increasing

- Boron: YGWA-18S, YGWA-39 (both upgradient), and YGWC-46A
- Calcium: GWA-2, YGWA-1D, YGWA-5I, YGWA-17S, YGWA-30I, YGWA-39 (all upgradient), and YGWC-46A
- Chloride: GWA-2, YGWA-4I, YGWA-17S, YGWA-18I, YGWA-20S, and YGWA-40 (all upgradient)
- Sulfate: GWA-2, YGWA-1D, YGWA-2I, YGWA-3D, YGWA-3I, and YGWA-5I (all upgradient)
- TDS: YGWA-21I and YGWA-39 (both upgradient)

Decreasing

- Boron: YGWA-40 (upgradient) and YGWC-44
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, and YGWA-47 (all upgradient)
- Chloride: YGWA-3D, YGWA-3I, YGWA-5D, and YGWA-47 (all upgradient)
- Sulfate: YGWA-5D, YGWA-18I, YGWA-18S, YGWA-30I, YGWA-39, YGWA-40, YGWA-47 (all upgradient), and YGWC-45
- TDS: YGWA-47 (upgradient)

Statistical Analysis of Appendix IV Parameters – February 2025

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding GWPS. Downgradient well/constituent pairs that have 100% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were substantially higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent natural spatial variation in groundwater quality, the values will be re-evaluated for construction of interwell tolerance limits. Note that more recent concentrations for cobalt at upgradient well YGWA-21I have been increasing and the most recent measurement was flagged as an outlier in order to maintain statistical limits that are capable of readily detecting changes in groundwater quality. All upgradient concentrations will be re-evaluated in future analyses and if future observations are similar to this measurement, then this observation may be unflagged as an outlier.

Data among downgradient wells were also re-evaluated during this analysis, and a previously flagged non-detect value for cobalt at downgradient well YGWC-45 was

unflagged since the most recent reporting limit of 0.005 mg/L replaced the elevated historic reporting limit. A summary of flagged outliers follows this report (Figure C).

Mann-Whitney Test of Medians

During previous analyses, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of observations sampled before July 2020 at abandoned downgradient well YGWC-46 to the medians of the 8 most recent observations sampled at well YGWC-46A, when available, for each Appendix IV parameter. When no variation was present between historical data and compliance samples, which was the case for beryllium, chromium, and selenium, the Mann-Whitney test was not performed. When the populations of the two groups were statistically significantly different at the 99% confidence level (such as barium, cobalt, and lithium), the historical data sampled from abandoned well YGWC-46 were truncated to only use data from well YGWC-46A to construct confidence intervals. The earlier data are shown on the time series as disconnected point and in a lighter font on the data pages. A list of the constituents using truncated records follows this report.

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2025 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 using data through February 2025 were constructed for each of the Appendix IV constituents in each downgradient well with 8 or more samples (Figure H). Beryllium and selenium were 100% non-detects at all downgradient wells.

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 of samples available.

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 of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

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. 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. Since no exceedances were identified, no trend tests were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

Table of Contents

Summary Tables	15
Figure A. Time Series	26
Figure B. Box Plots	195
Figure C. Outlier Summary	217
Figure D. Appendix III Prediction Limits	219
Figure E. Appendix III Trend Tests	293
Figure F. Upper Tolerance Limits	323
Figure G. Groundwater Protection Standards	344
Figure H. Confidence Intervals	346

Summary Tables

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. EPA

Date Ranges

Date: 5/20/2025 10:03 AM

Plant Yates Client: Southern Company Data: Yates AP-1

Barium (mg/L)
YGWC-46A overall:7/6/2020-2/26/2025
Cobalt (mg/L)
YGWC-46A overall:7/6/2020-2/26/2025
Lithium (mg/L)
YGWC-46A overall:7/6/2020-2/26/2025

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 5/20/2025 11:55 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Antimony (mg/L)
YGWC-52

Beryllium (mg/L)
YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Cadmium (mg/L)
YGWC-44, YGWC-45, YGWC-52

Chromium (mg/L)
YGWC-46A

Lead (mg/L)
YGWC-44

Mercury (mg/L)
YGWC-52

Selenium (mg/L)
YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Thallium (mg/L)
YGWC-45, YGWC-52

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:04 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-44**	**0.16**	**n/a**	**2/26/2025**	**0.56**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-46A**	**0.16**	**n/a**	**2/26/2025**	**2.8**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**YGWC-45**	**37**	**n/a**	**2/26/2025**	**55.4**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-46A**	**37**	**n/a**	**2/26/2025**	**132**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-46A**	**12.7**	**n/a**	**2/26/2025**	**35.2**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-45**	**160**	**n/a**	**2/26/2025**	**161**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-46A**	**160**	**n/a**	**2/26/2025**	**463**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-45**	**319**	**n/a**	**2/26/2025**	**456**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-46A**	**319**	**n/a**	**2/26/2025**	**1030**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:04 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-44**	**0.16**	**n/a**	**2/26/2025**	**0.56**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-45	0.16	n/a	2/26/2025	0.36J	No	443	n/a	n/a	51.92	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Boron (mg/L)	**YGWC-46A**	**0.16**	**n/a**	**2/26/2025**	**2.8**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-52	0.16	n/a	2/26/2025	0.04ND	No	443	n/a	n/a	51.92	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-44	37	n/a	2/26/2025	30.1	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-45**	**37**	**n/a**	**2/26/2025**	**55.4**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-46A**	**37**	**n/a**	**2/26/2025**	**132**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-52	37	n/a	2/26/2025	32.3	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-44	12.7	n/a	2/26/2025	11.7	No	448	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-45	12.7	n/a	2/26/2025	6.4	No	448	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-46A**	**12.7**	**n/a**	**2/26/2025**	**35.2**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-52	12.7	n/a	2/26/2025	2.6	No	448	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-44	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-45	1.1	n/a	2/26/2025	0.069J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-46A	1.1	n/a	2/26/2025	0.075J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-52	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
pH, Field (SU)	YGWC-44	8.39	4.4	2/26/2025	5.78	No	527	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-45	8.39	4.4	2/26/2025	6.63	No	527	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-46A	8.39	4.4	2/26/2025	6.85	No	527	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-52	8.39	4.4	2/26/2025	5.97	No	527	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-44	160	n/a	2/26/2025	112	No	449	n/a	n/a	4.454	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-45**	**160**	**n/a**	**2/26/2025**	**161**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-46A**	**160**	**n/a**	**2/26/2025**	**463**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-52	160	n/a	2/26/2025	86.6	No	449	n/a	n/a	4.454	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-44	319	n/a	2/26/2025	309	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
TDS (mg/L)	**YGWC-45**	**319**	**n/a**	**2/26/2025**	**456**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-46A**	**319**	**n/a**	**2/26/2025**	**1030**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	YGWC-52	319	n/a	2/26/2025	205	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-18S (bg)	0.001383	106	105	Yes	24	29.17	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01699	128	87	Yes	21	4.762	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01069	-141	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-44	-0.0153	-101	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-46A	0.1004	140	111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5297	156	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07121	-145	-105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-0.954	-118	-111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.07137	183	111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1399	224	111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.05985	-185	-105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.02843	114	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.416	139	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.7627	-140	-87	Yes	21	4.762	n/a	0.01	NP
Calcium (mg/L)	YGWC-46A	4.863	172	111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2946	117	81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.03782	-151	-105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.02614	-128	-105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.08081	108	105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.5175	-230	-111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.8777	241	111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.08815	127	105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.07794	157	111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2046	94	87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.3114	-152	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8411	210	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.308	141	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2228	127	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6848	128	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.029	-218	-111	Yes	25	4	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.07442	179	111	Yes	25	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.08662	-107	-105	Yes	24	16.67	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1227	-171	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.0618	-109	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.355	-162	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-5.328	-161	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-9.679	-165	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-45	-3.755	-99	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	8.192	112	105	Yes	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	23.65	120	87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-9.065	-118	-87	Yes	21	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001316	85	105	No	24	45.83	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-8	-105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	14	105	No	24	83.33	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	40	105	No	24	66.67	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	6	105	No	24	87.5	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	31	105	No	24	75	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0006459	88	105	No	24	25	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	10	105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0001609	-34	-105	No	24	4.167	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0005253	92	105	No	24	16.67	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-2	-105	No	24	83.33	n/a	0.01	NP
Boron (mg/L)	**YGWA-18S (bg)**	**0.001383**	**106**	**105**	**Yes**	**24**	**29.17**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-20S (bg)	0	1	105	No	24	91.67	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-14	-105	No	24	54.17	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-4	-105	No	24	87.5	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01699**	**128**	**87**	**Yes**	**21**	**4.762**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01069**	**-141**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0001691	-18	-87	No	21	9.524	n/a	0.01	NP
Boron (mg/L)	**YGWC-44**	**-0.0153**	**-101**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-46A**	**0.1004**	**140**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**2.258**	**92**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.5297**	**156**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.07121**	**-145**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.2799	55	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.2329	70	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.4036	98	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.04754	29	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-0.954**	**-118**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.07137**	**183**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0.01105	65	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1399**	**224**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.06656	87	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.05985**	**-185**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.0347	98	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.3697	85	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-30I (bg)**	**0.02843**	**114**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-39 (bg)**	**2.416**	**139**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.1992	-62	-87	No	21	4.762	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-0.7627**	**-140**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWC-45	0.1354	12	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**YGWC-46A**	**4.863**	**172**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-1D (bg)	-0.01295	-75	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01972	-77	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.02326	-90	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.03782**	**-151**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.02614**	**-128**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-4I (bg)**	**0.08081**	**108**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5175**	**-230**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0.02095	38	111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.06174	56	105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.8777**	**241**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.08815**	**127**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.06848	73	105	No	24	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Chloride (mg/L)	**YGWA-20S (bg)**	**0.07794**	**157**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.06042	-73	-111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.03904	-105	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.4364	84	87	No	21	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2046**	**94**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3114**	**-152**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-46A	0.5999	47	111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**9.755**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.8411**	**210**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.09313	-44	-105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-2I (bg)**	**1.308**	**141**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.2228**	**127**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.6848**	**128**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0	9	111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.029**	**-218**	**-111**	**Yes**	**25**	**4**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.07442**	**179**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	0	4	105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	-0.05102	-55	-111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.08662**	**-107**	**-105**	**Yes**	**24**	**16.67**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-18S (bg)**	**-0.1227**	**-171**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-20S (bg)	0.003345	107	111	No	25	60	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1796	-102	-111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-30I (bg)**	**-0.0618**	**-109**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.355**	**-162**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-5.328**	**-161**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-9.679**	**-165**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-45**	**-3.755**	**-99**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-46A	-15.37	-65	-111	No	25	4	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	12.15	73	81	No	20	0	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	2.993	99	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	0	2	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	0.4129	20	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	2.591	59	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	2.067	45	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-4I (bg)	2.052	50	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-5.897	-61	-98	No	23	0	n/a	0.01	NP
TDS (mg/L)	YGWA-5I (bg)	0.3624	18	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	1.401	67	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	2.373	77	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	0.2504	7	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	1.39	46	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	2.836	81	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	**YGWA-21I (bg)**	**8.192**	**112**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-30I (bg)	1.9	69	105	No	24	8.333	n/a	0.01	NP
TDS (mg/L)	**YGWA-39 (bg)**	**23.65**	**120**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-40 (bg)	-3.94	-62	-87	No	21	0	n/a	0.01	NP
TDS (mg/L)	**YGWA-47 (bg)**	**-9.065**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWC-45	2.772	42	87	No	21	0	n/a	0.01	NP
TDS (mg/L)	YGWC-46A	0.7857	3	111	No	25	0	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:42 AM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	467	n/a	n/a	87.58	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	515	n/a	n/a	74.56	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	515	n/a	n/a	2.136	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	499	n/a	n/a	80.36	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	499	n/a	n/a	94.79	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	467	n/a	n/a	80.51	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	508	n/a	n/a	69.49	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	493	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	1.1	518	n/a	n/a	54.25	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	469	n/a	n/a	87.85	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	493	n/a	n/a	27.18	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	423	n/a	n/a	87.23	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	457	n/a	n/a	61.49	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	497	n/a	n/a	92.96	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	431	n/a	n/a	97.22	n/a	n/a	NaN	NP Inter(NDs)

YATES ASH POND 1 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		1.1	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Appendix IV Confidence Intervals - All Results (No Significant)

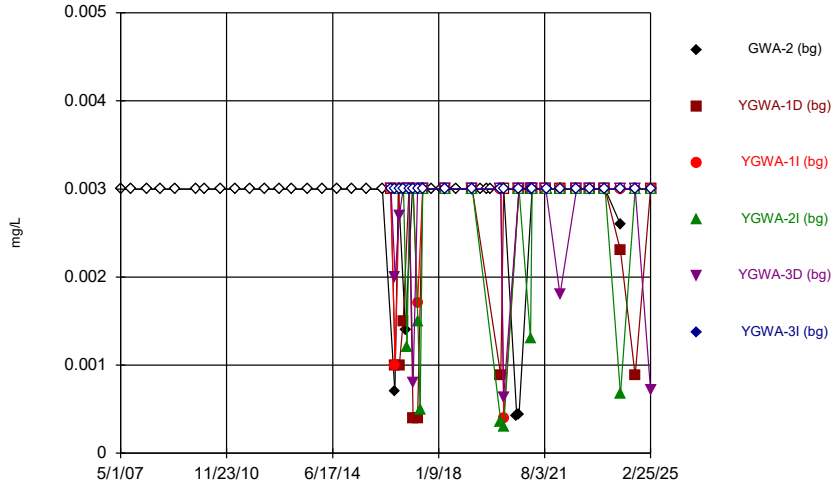
Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-44	0.003	0.0023	0.006	No	20	0.002965	0.0001565	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-45	0.003	0.0017	0.006	No	20	0.002935	0.0002907	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-46A	0.003	0.00029	0.006	No	23	0.002882	0.0005651	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-44	0.005	0.0041	0.01	No	22	0.003956	0.00181	68.18	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-45	0.005	0.0028	0.01	No	22	0.004114	0.001723	77.27	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-46A	0.005	0.001	0.01	No	25	0.00278	0.001895	40	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-52	0.005	0.0044	0.01	No	13	0.004954	0.0001664	92.31	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-44	0.1063	0.08614	2	No	22	0.09623	0.0188	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-45	0.06605	0.05473	2	No	22	0.06039	0.01054	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-46A	0.04623	0.04106	2	No	14	0.04364	0.00365	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-52	0.01965	0.01758	2	No	13	0.01862	0.001387	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-46A	0.0005	0.00012	0.005	No	22	0.0004473	0.0001359	86.36	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-44	0.005	0.0021	0.1	No	20	0.004855	0.0006485	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-45	0.0061	0.0006	0.1	No	20	0.004614	0.001398	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-52	0.005	0.00086	0.1	No	13	0.003525	0.001967	61.54	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-44	0.003385	0.00154	0.035	No	22	0.00278	0.002479	4.545	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	YGWC-45	0.0009	0.00055	0.035	No	22	0.0008682	0.0005493	9.091	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-46A	0.002241	0.0008845	0.035	No	14	0.001629	0.001105	7.143	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-52	0.00189	0.0009208	0.035	No	13	0.001405	0.0006516	7.692	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-44	0.8585	0.322	6.92	No	22	0.6648	0.5718	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-45	1.433	0.9897	6.92	No	22	1.212	0.4132	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-46A	1.865	1.138	6.92	No	26	1.501	0.7453	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-52	0.9455	0.4254	6.92	No	13	0.6855	0.3498	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-44	0.1	0.07	4	No	23	0.09335	0.01828	78.26	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-45	0.22	0.075	4	No	23	0.1776	0.1531	17.39	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-46A	0.17	0.1	4	No	26	0.1501	0.0947	19.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-52	0.1	0.059	4	No	13	0.09046	0.01822	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-45	0.001	0.0001	0.015	No	20	0.000955	0.0002012	95	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-46A	0.001	0.000044	0.015	No	23	0.0009584	0.0001993	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-52	0.001	0.000064	0.015	No	13	0.0007156	0.0004441	69.23	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-44	0.01346	0.01246	0.04	No	22	0.01296	0.0009328	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-45	0.01363	0.01196	0.04	No	22	0.01283	0.001605	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	YGWC-46A	0.01421	0.01156	0.04	No	14	0.01291	0.00194	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	YGWC-52	0.004373	0.003679	0.04	No	13	0.004026	0.0004664	0	None	No	0.01	Param.
Mercury (mg/L)	YGWC-44	0.0002	0.00006	0.002	No	18	0.0001922	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-45	0.0002	0.000071	0.002	No	18	0.0001928	0.00003041	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-46A	0.0002	0.00007	0.002	No	20	0.0001935	0.00002907	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-44	0.01	0.0005	0.1	No	22	0.009568	0.002025	95.45	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-45	0.0018	0.0011	0.1	No	22	0.002898	0.003442	18.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-46A	0.002543	0.001665	0.1	No	25	0.00352	0.002984	16	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	YGWC-52	0.01	0.00083	0.1	No	13	0.009295	0.002543	92.31	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-44	0.001	0.00008	0.002	No	20	0.000954	0.0002057	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-46A	0.001	0.000073	0.002	No	22	0.0009579	0.0001976	95.45	None	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

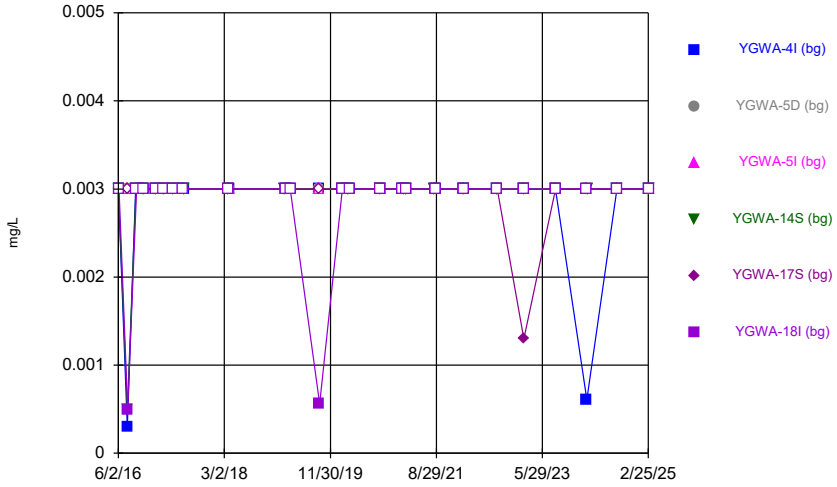
Time Series



Constituent: Antimony Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

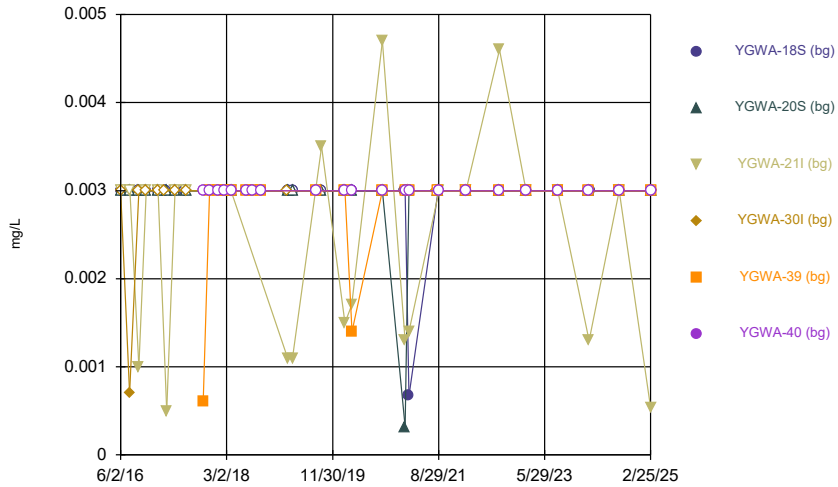
Time Series



Constituent: Antimony Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

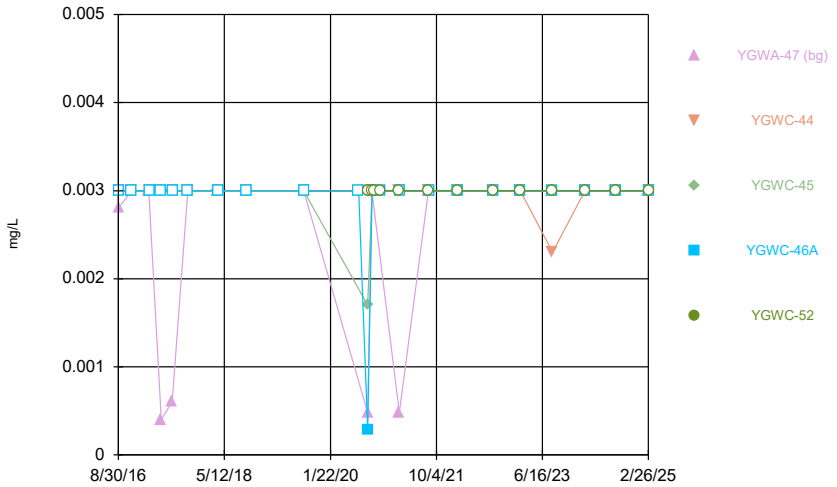
Time Series



Constituent: Antimony Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

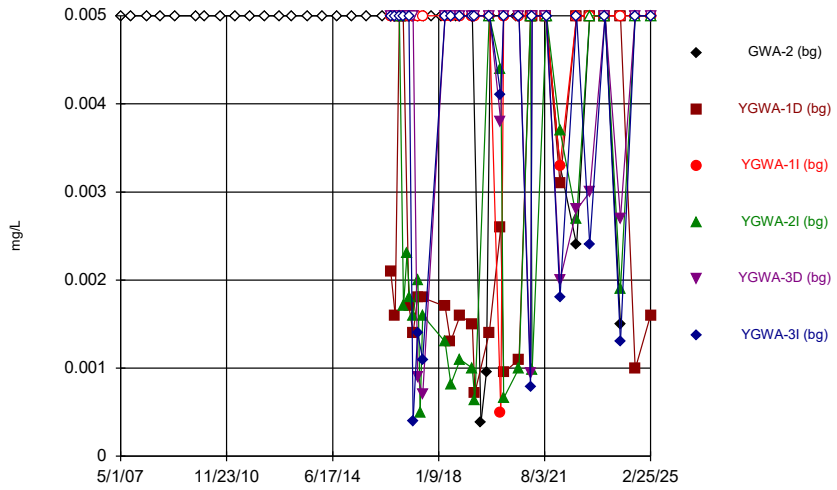
Time Series



Constituent: Antimony Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

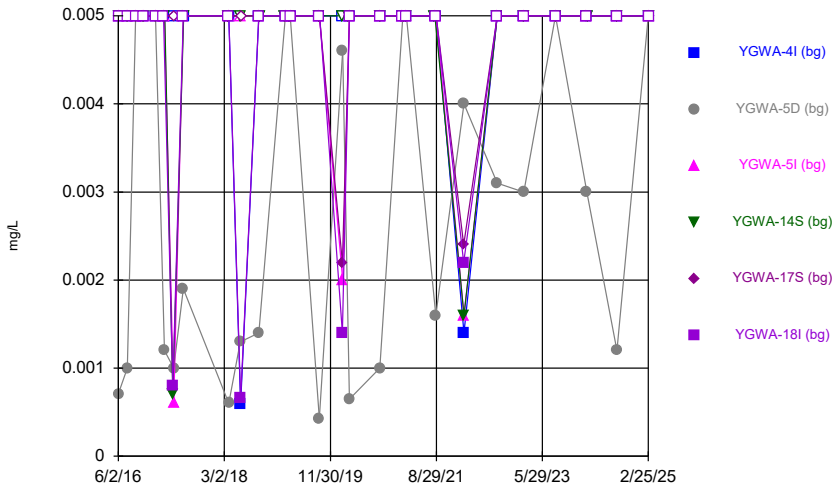
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

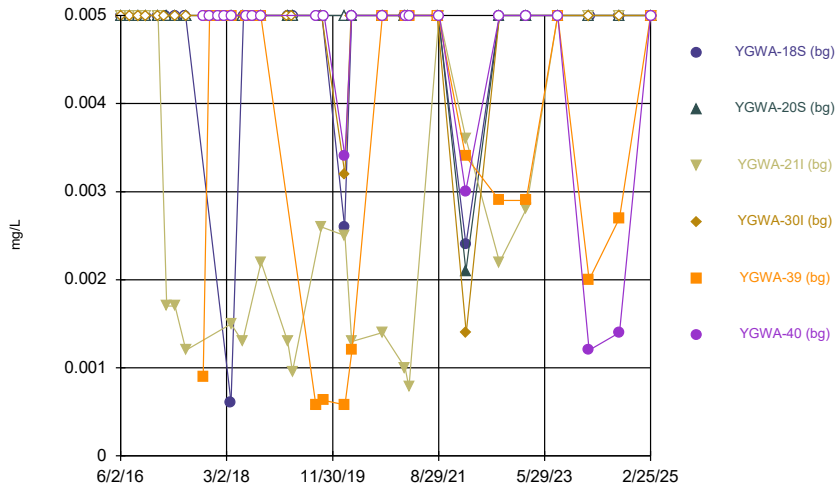
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

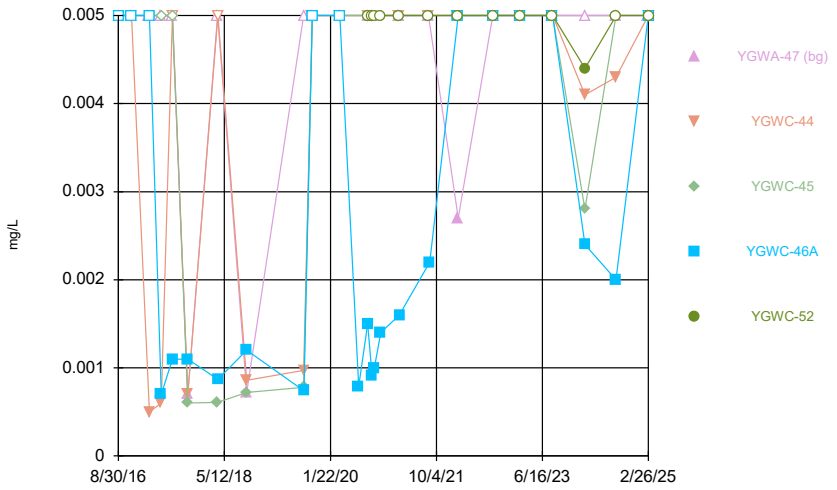
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

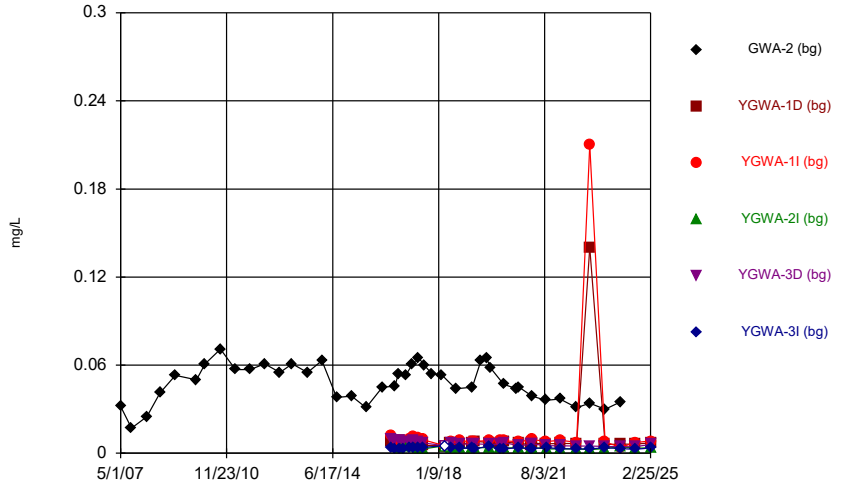
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

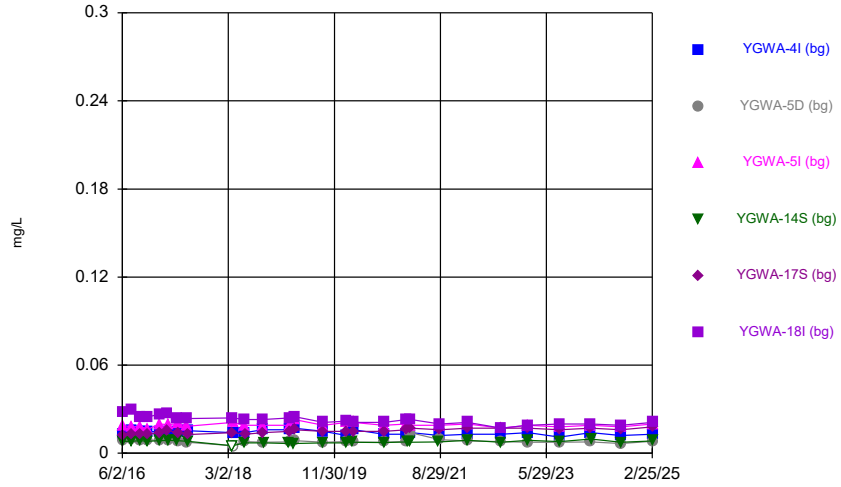
Time Series



Constituent: Barium Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

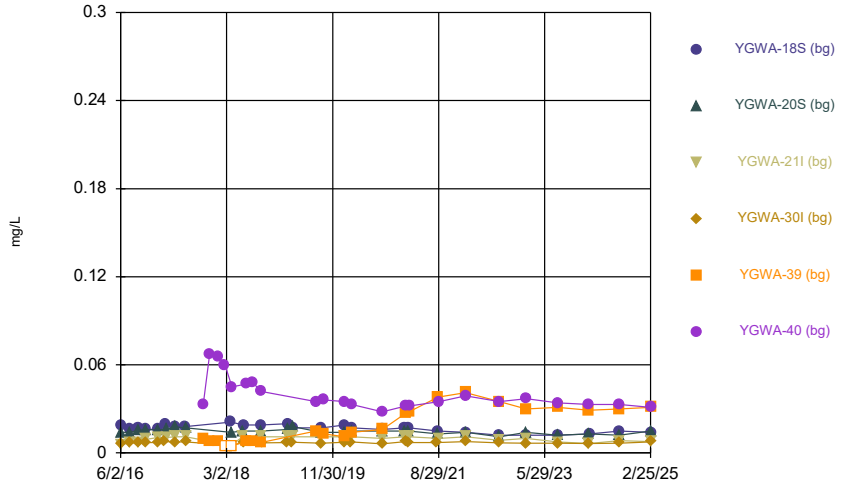
Time Series



Constituent: Barium Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

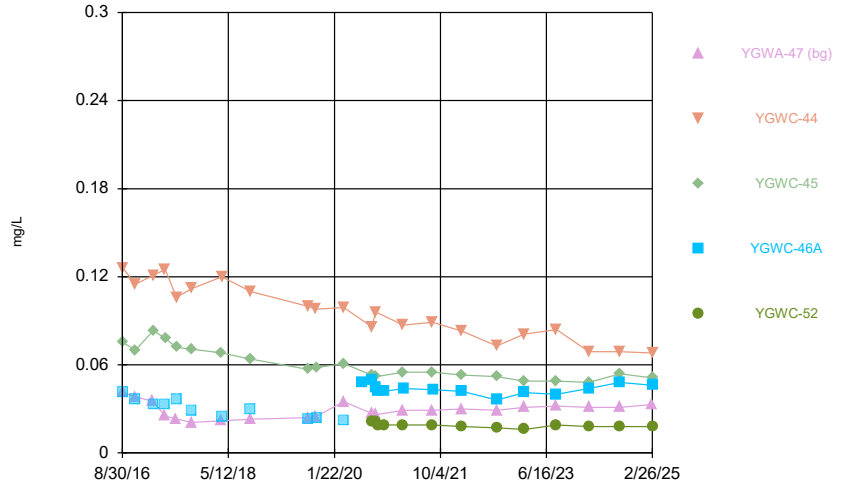
Time Series



Constituent: Barium Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

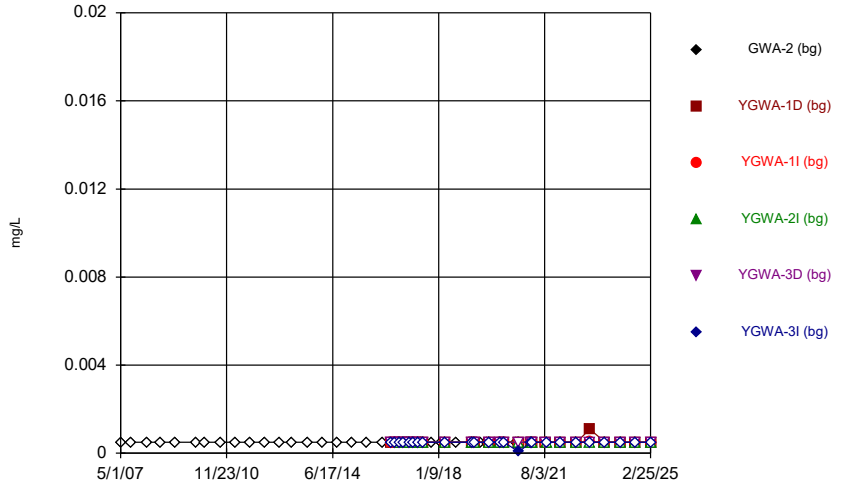
Time Series



Constituent: Barium Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

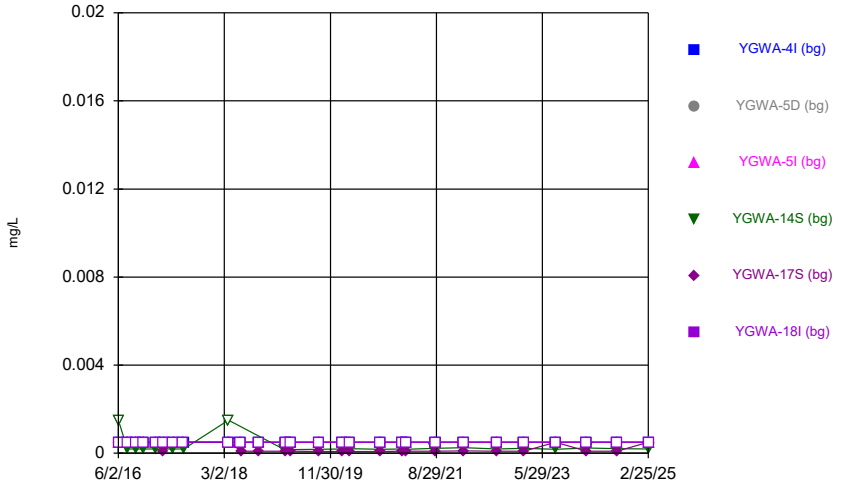
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

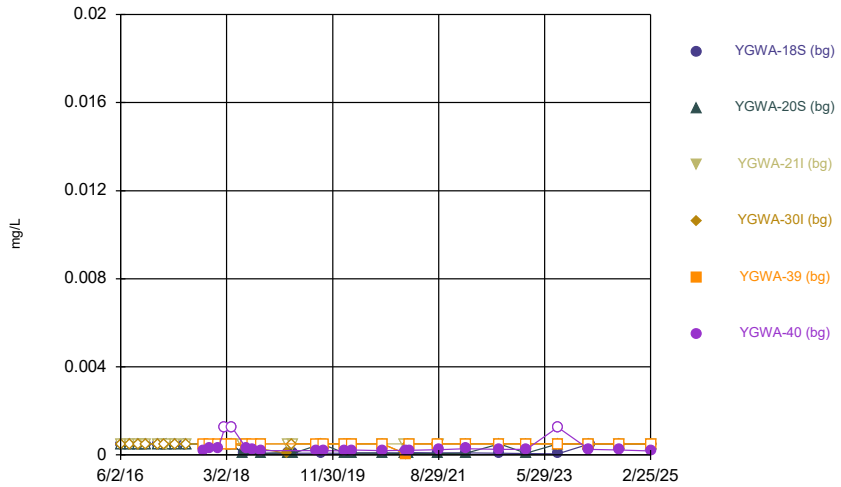
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

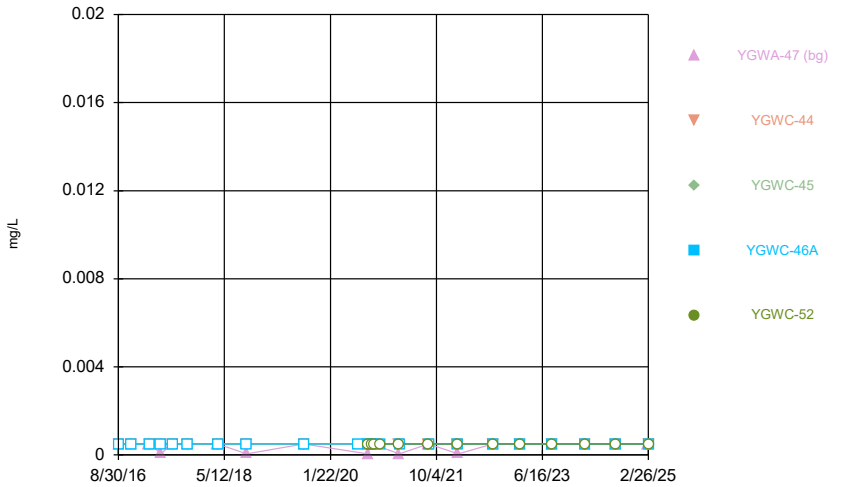
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

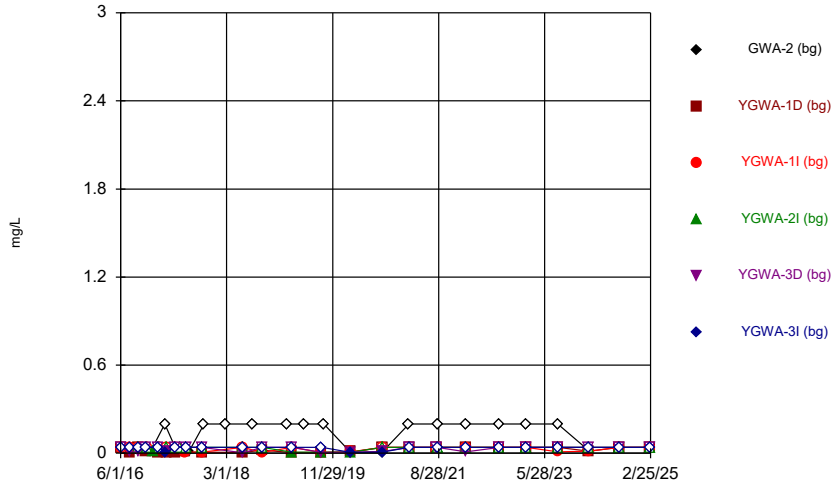
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

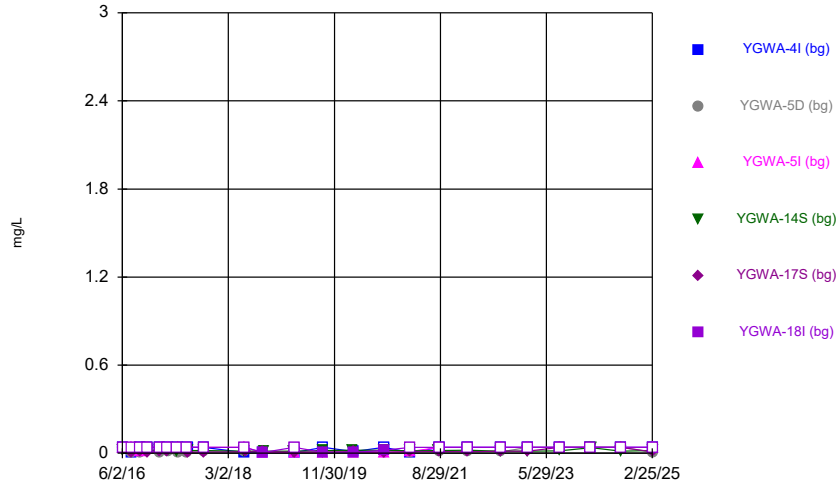
Time Series



Constituent: Boron Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

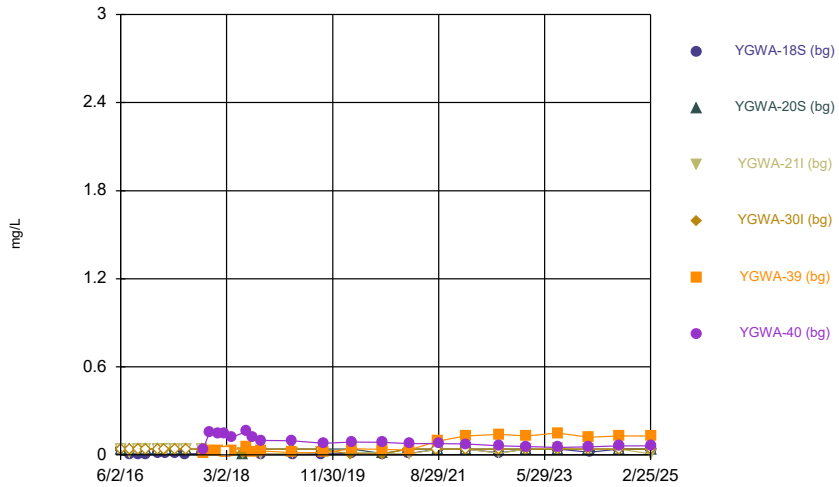
Time Series



Constituent: Boron Analysis Run 5/20/2025 7:30 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

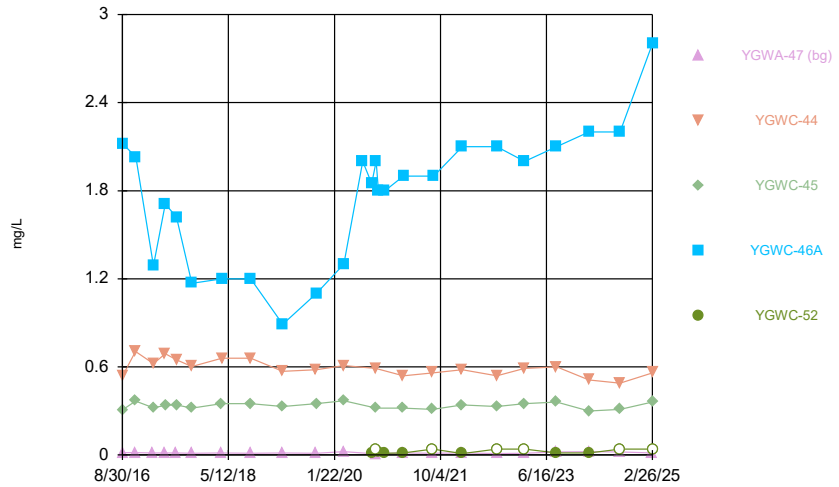
Time Series



Constituent: Boron Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

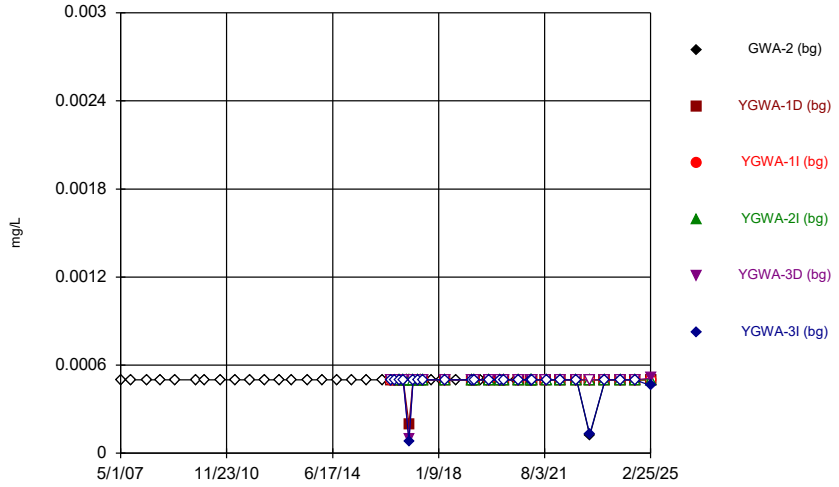
Time Series



Constituent: Boron Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

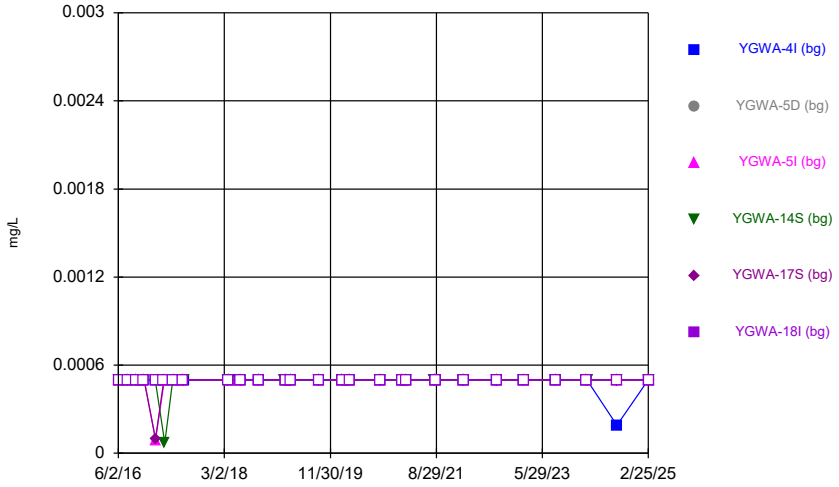
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

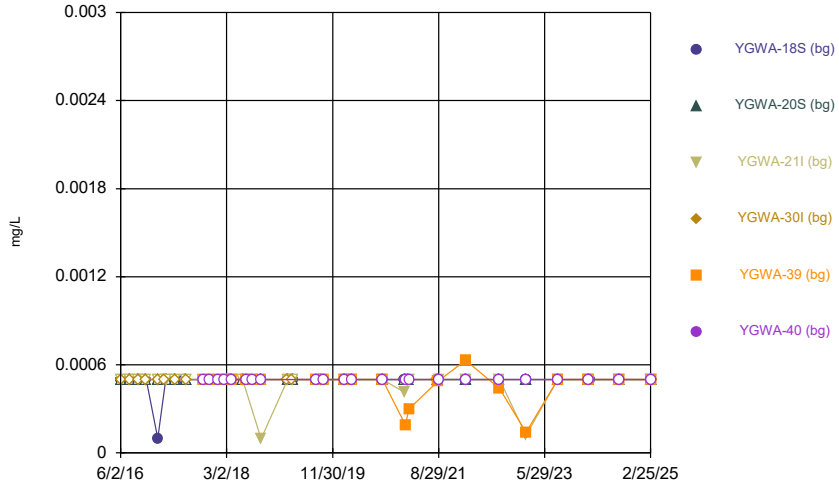
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

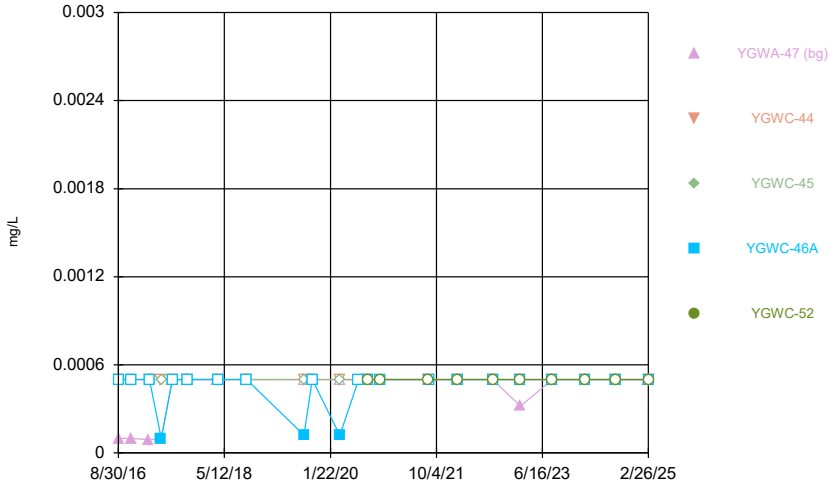
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

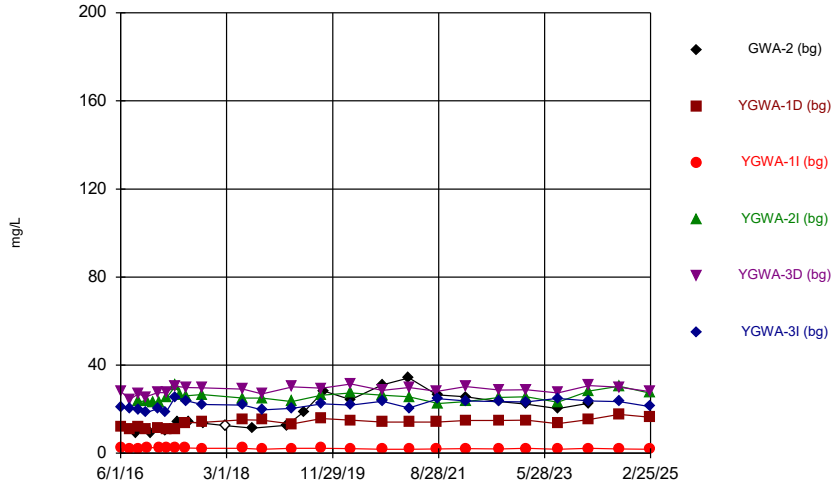
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

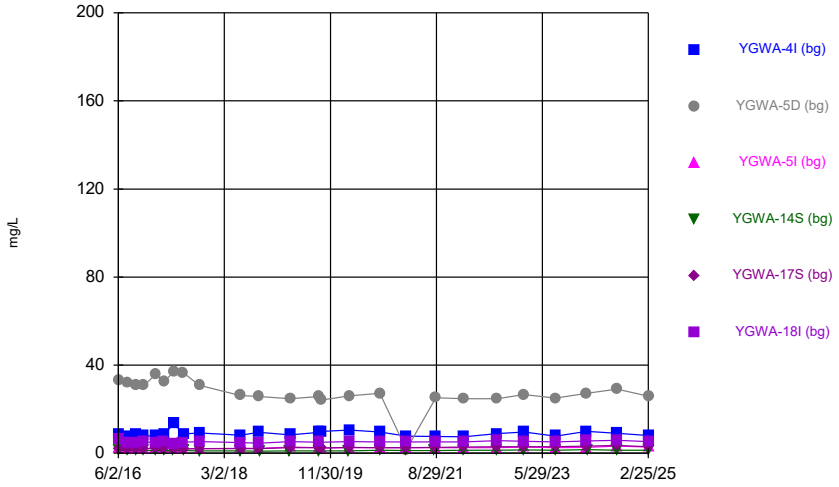
Time Series



Constituent: Calcium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

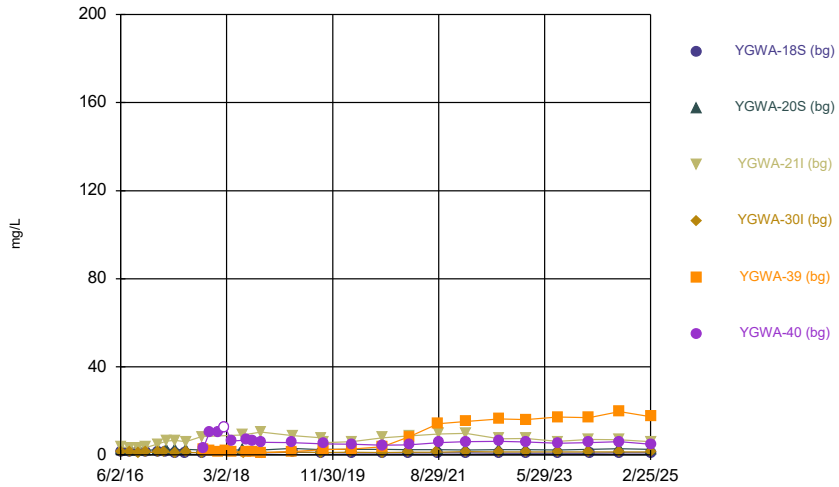
Time Series



Constituent: Calcium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

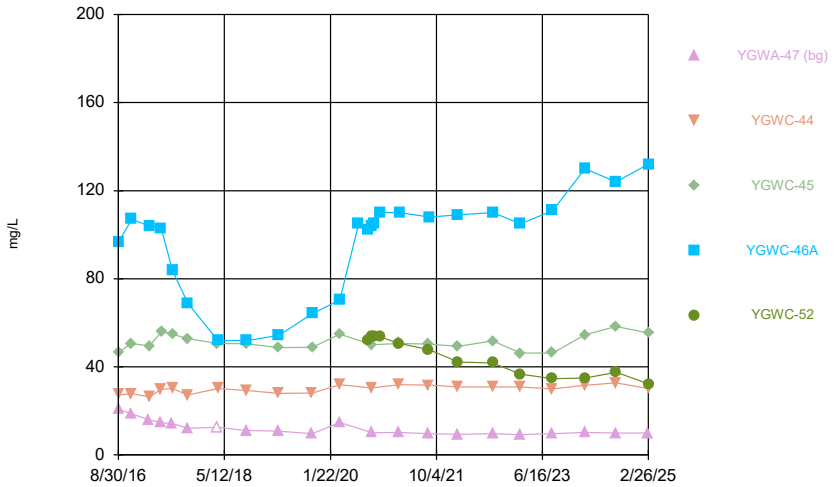
Time Series



Constituent: Calcium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

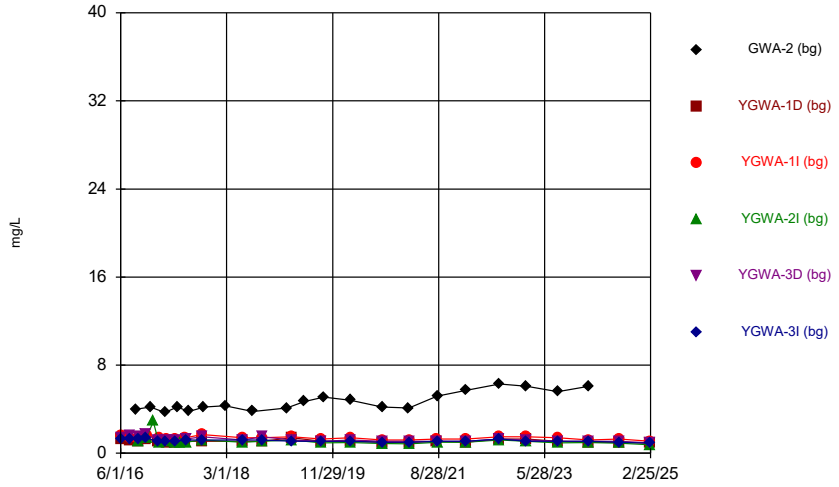
Time Series



Constituent: Calcium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

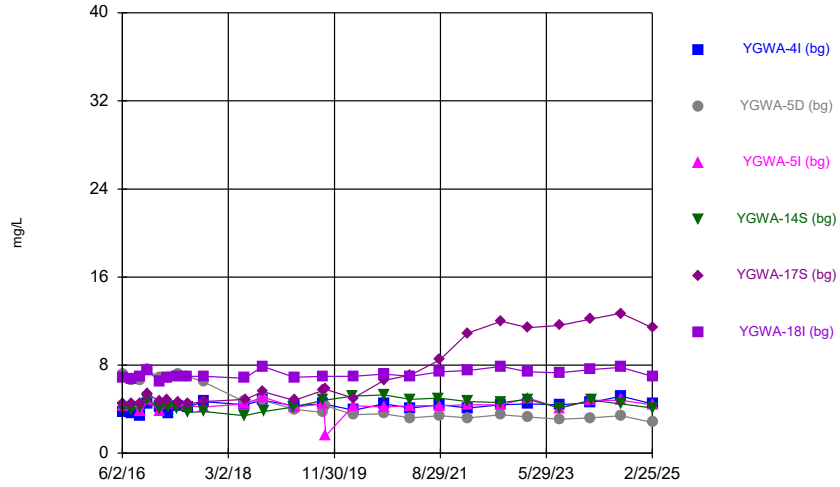


Constituent: Chloride Analysis Run 5/20/2025 7:31 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

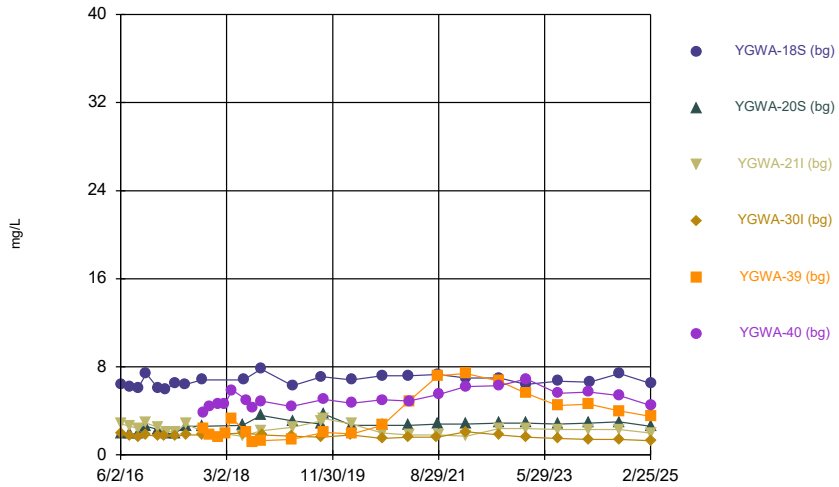


Constituent: Chloride Analysis Run 5/20/2025 7:31 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

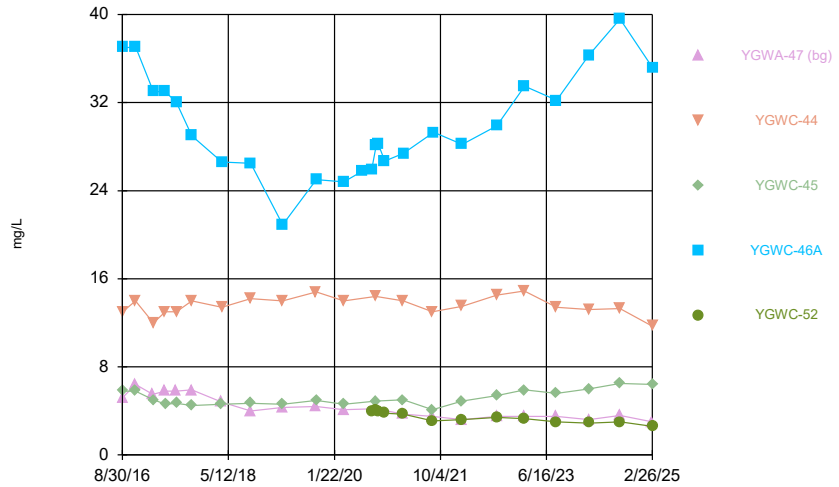


Constituent: Chloride Analysis Run 5/20/2025 7:31 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

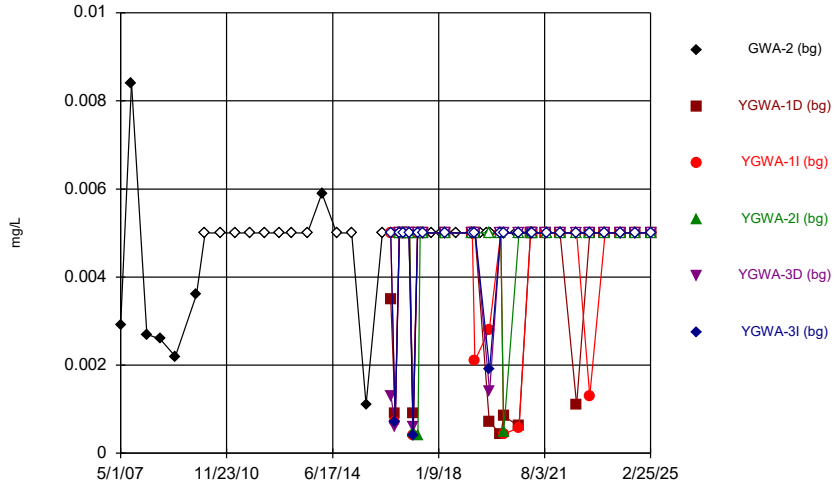


Constituent: Chloride Analysis Run 5/20/2025 7:31 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

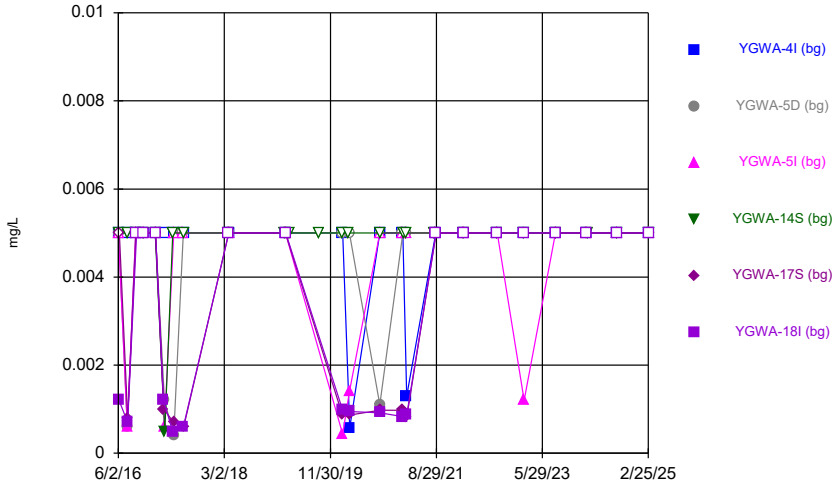
Time Series



Constituent: Chromium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

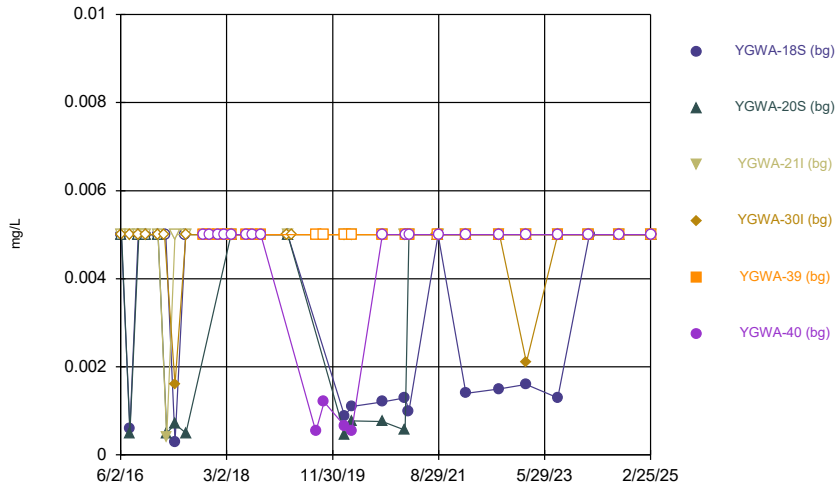
Time Series



Constituent: Chromium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

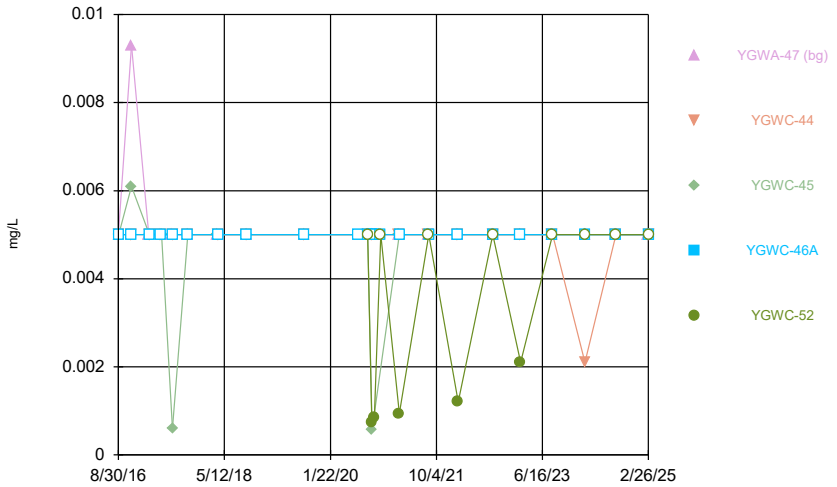
Time Series



Constituent: Chromium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

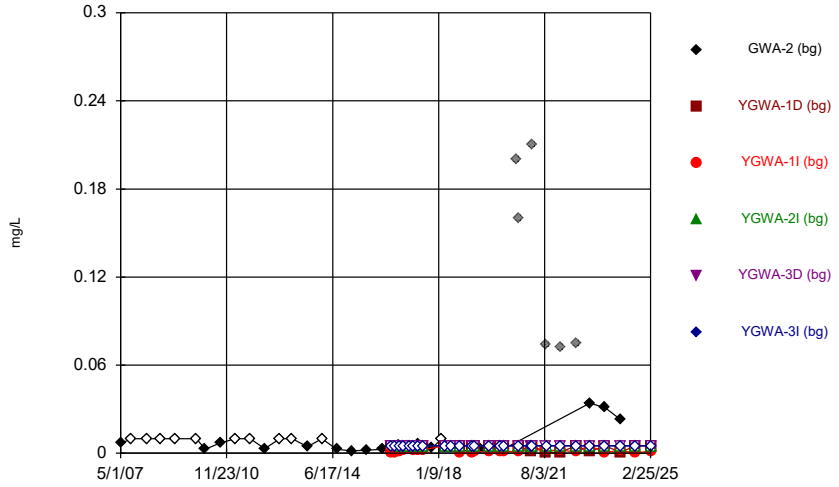
Time Series



Constituent: Chromium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

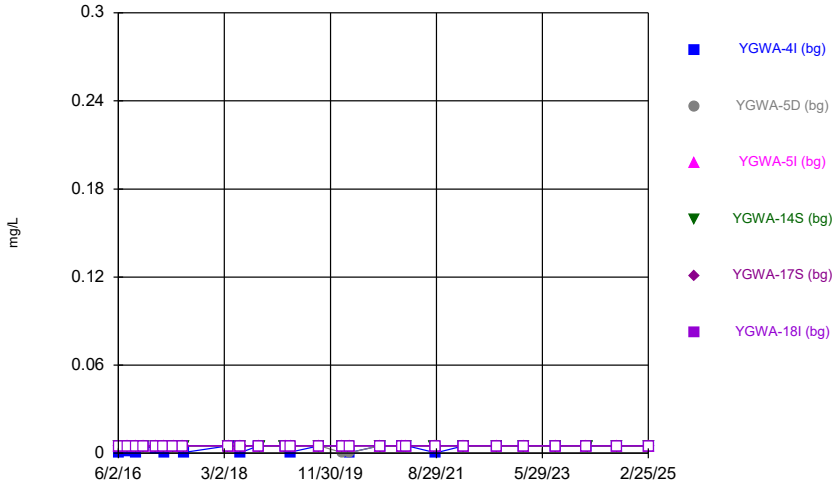
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

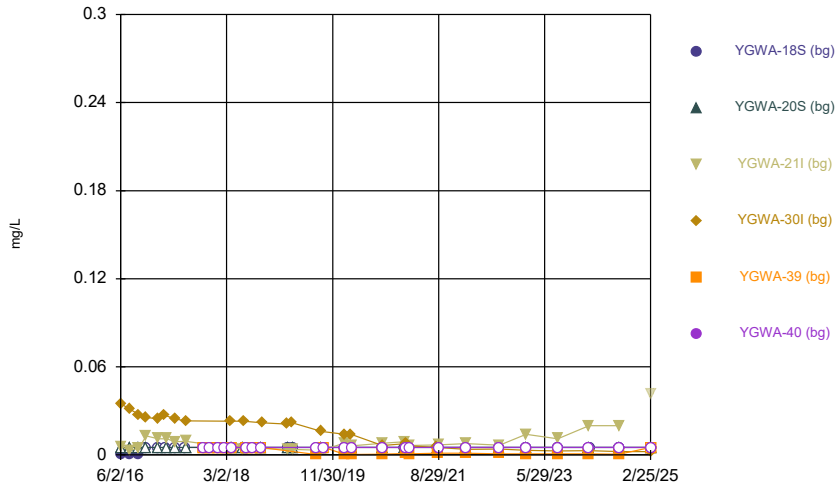
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

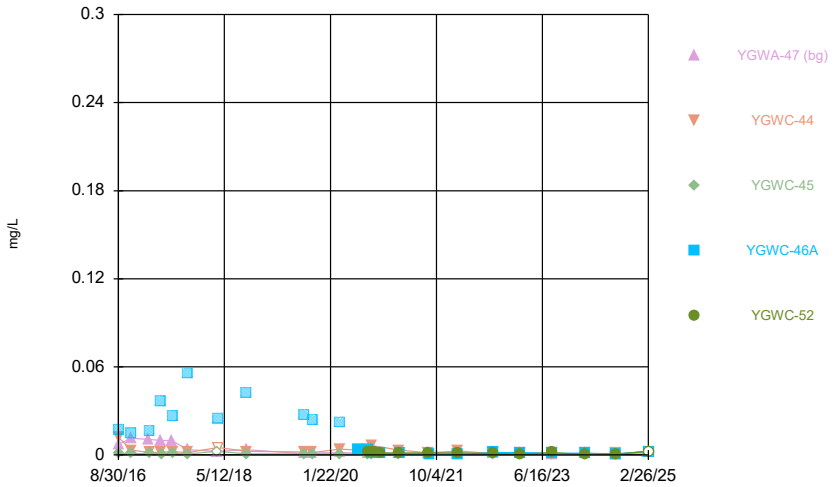
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

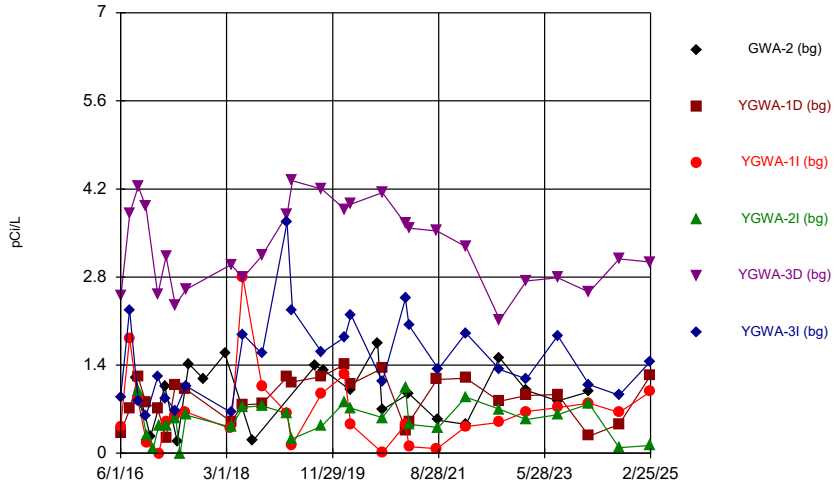
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

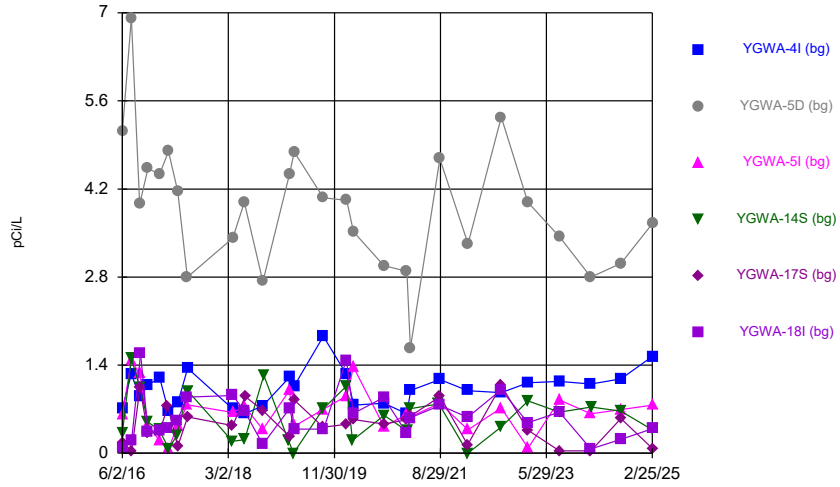
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

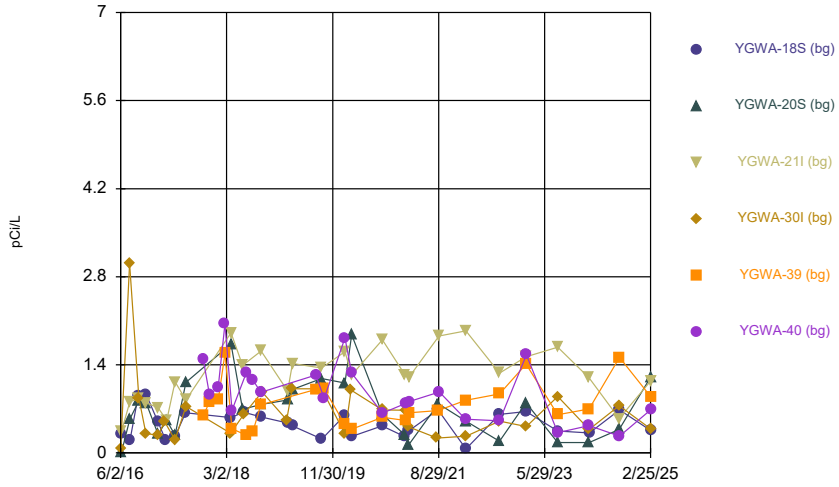
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

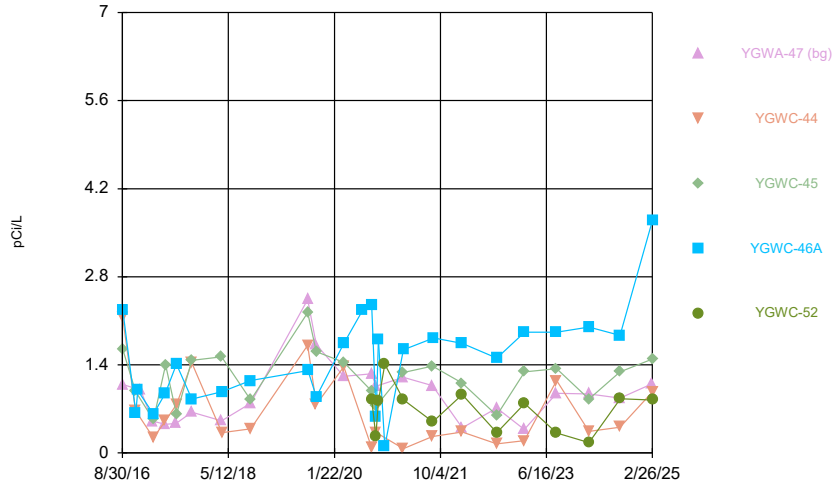
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

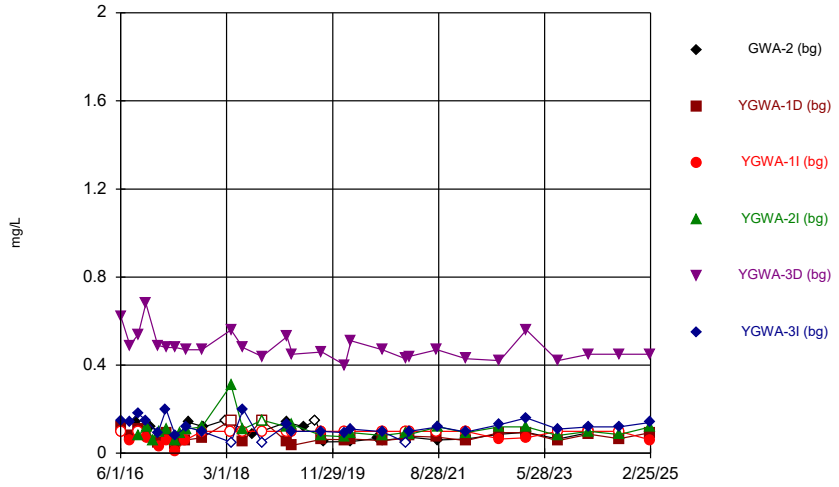
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

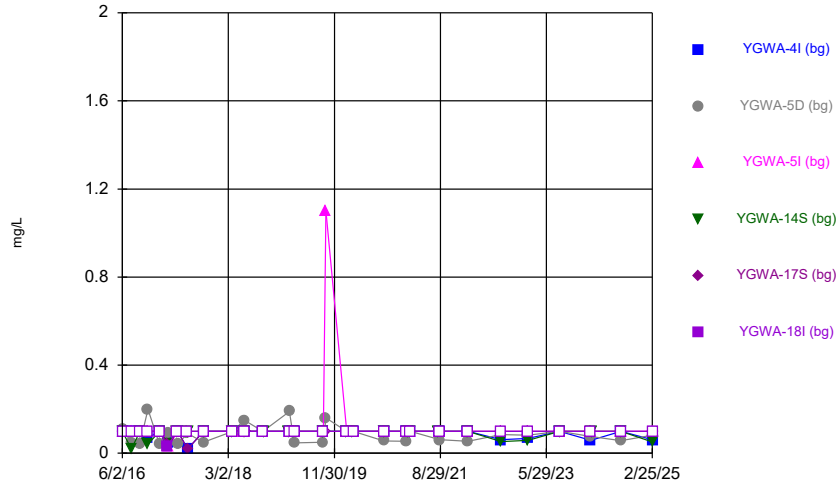
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

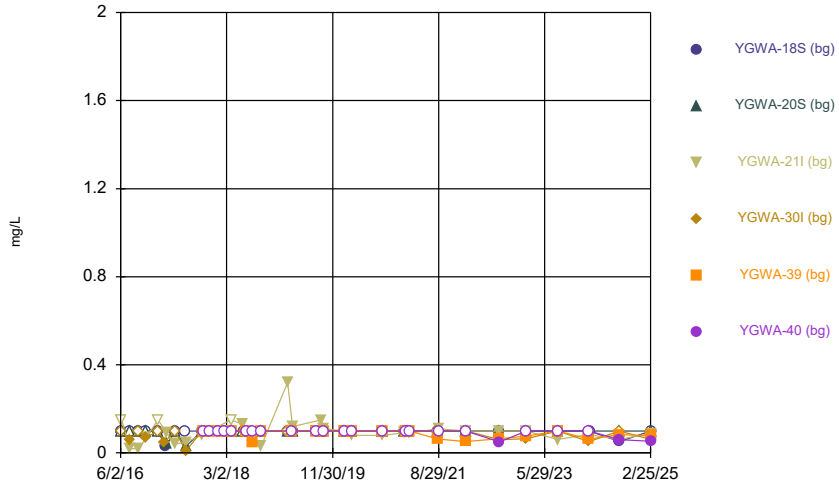
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

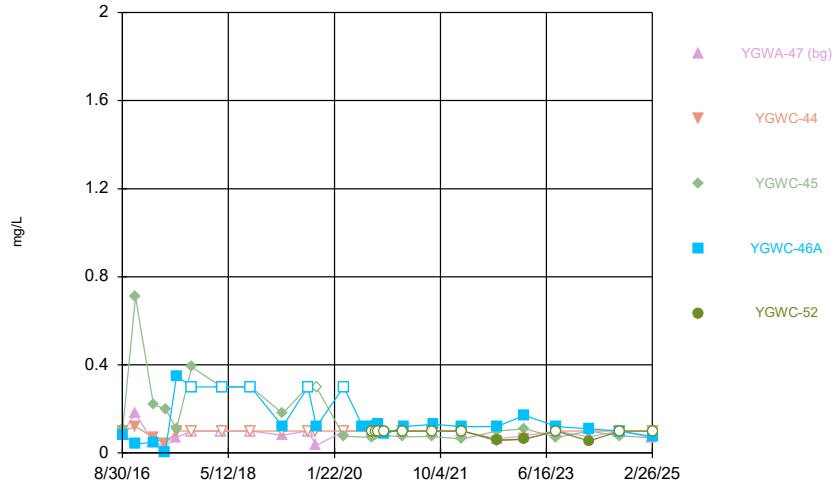
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

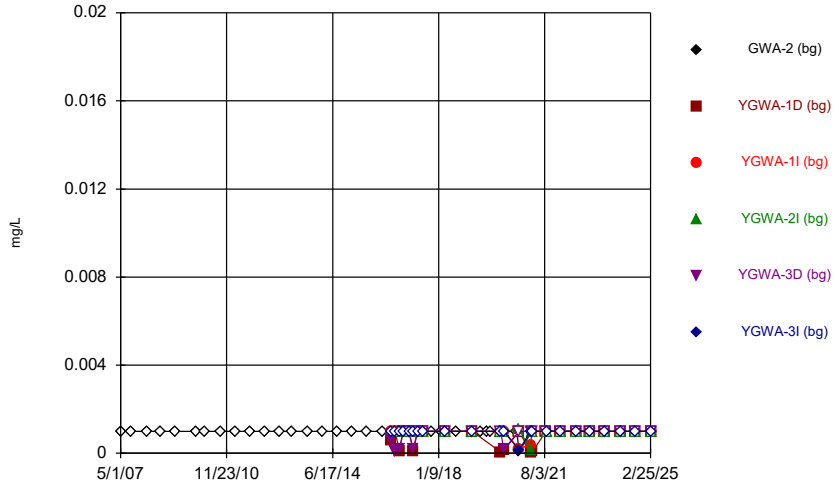
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

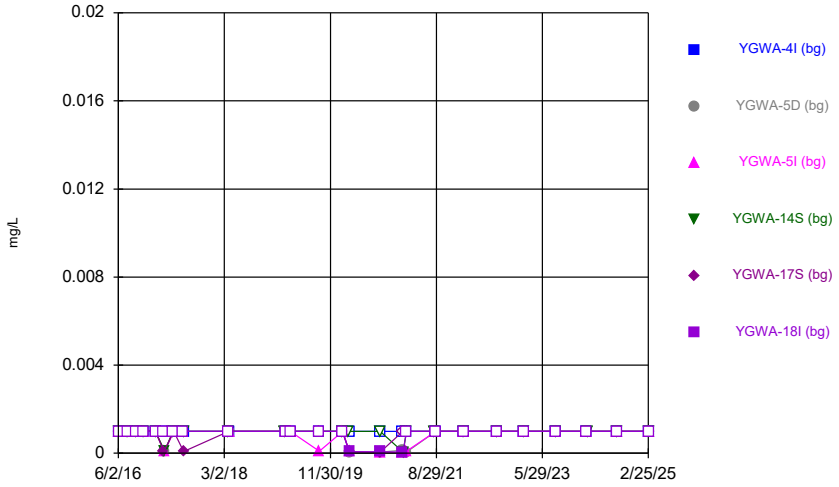
Time Series



Constituent: Lead Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

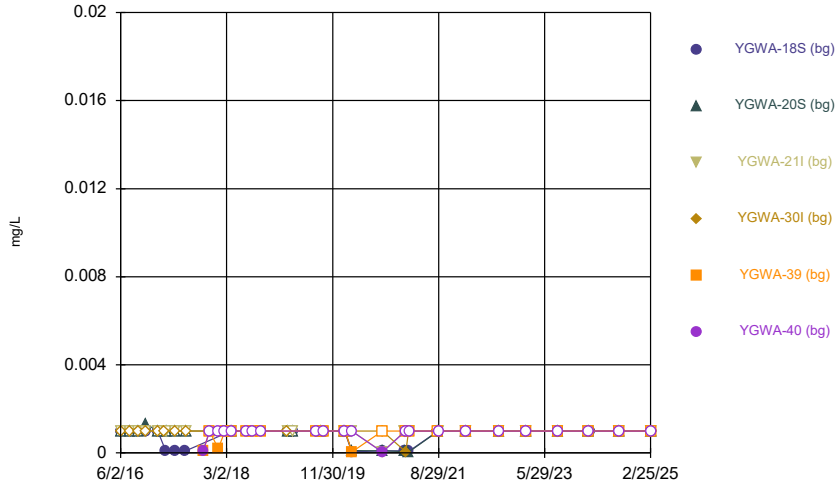
Time Series



Constituent: Lead Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

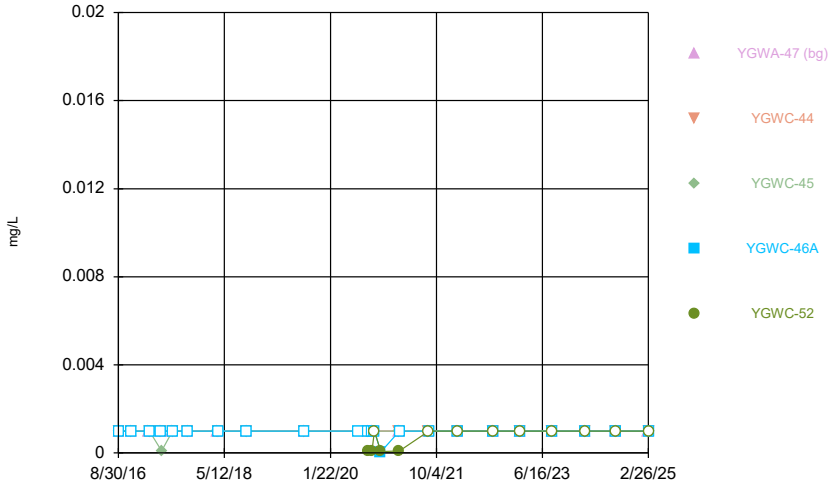
Time Series



Constituent: Lead Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

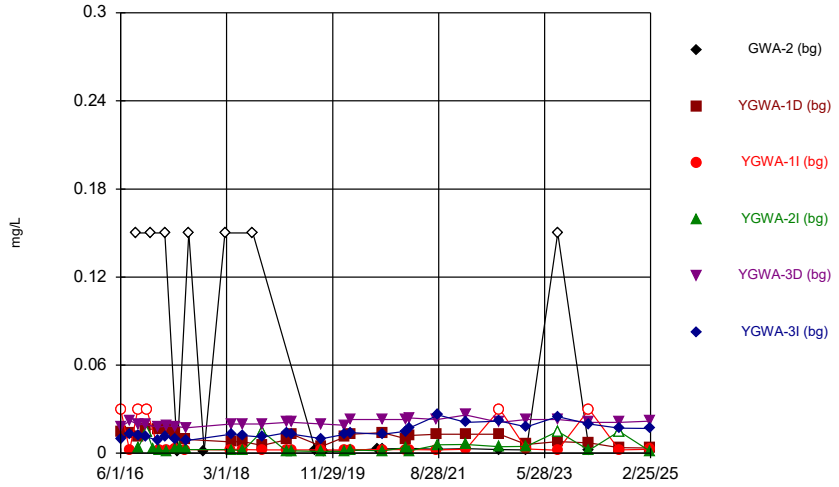
Time Series



Constituent: Lead Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

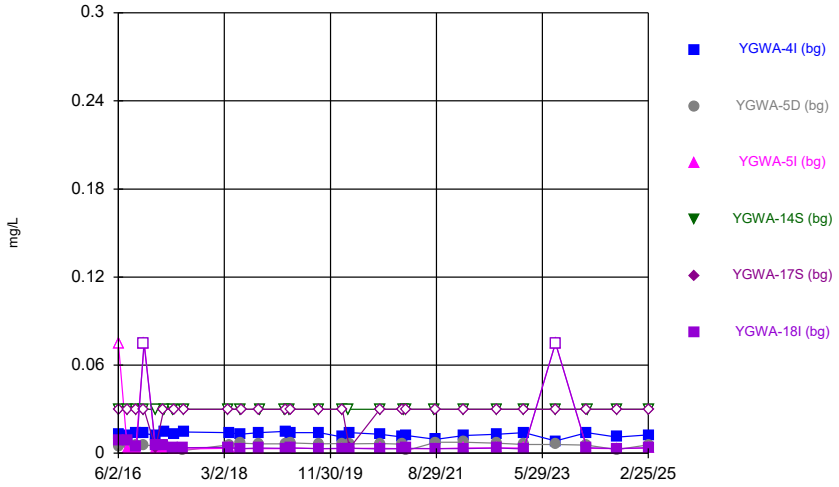
Time Series



Constituent: Lithium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

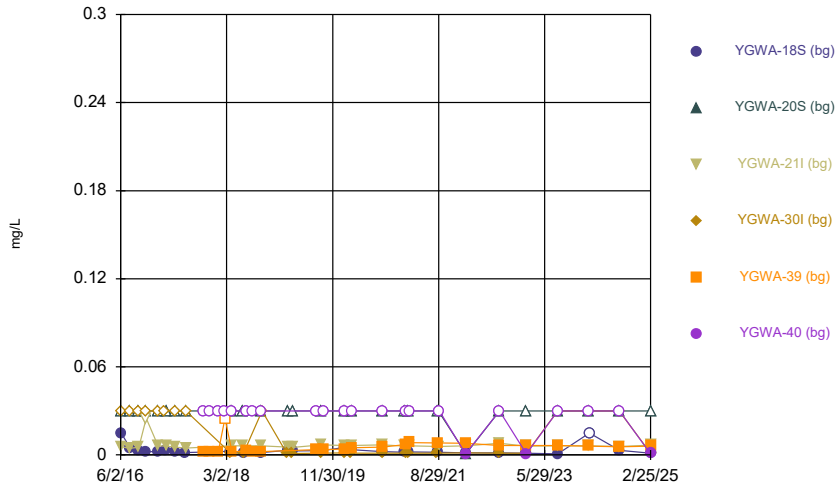
Time Series



Constituent: Lithium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

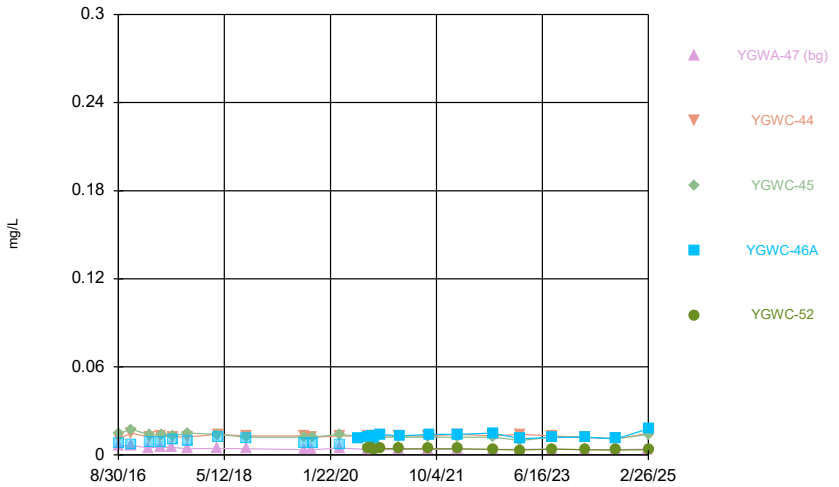
Time Series



Constituent: Lithium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

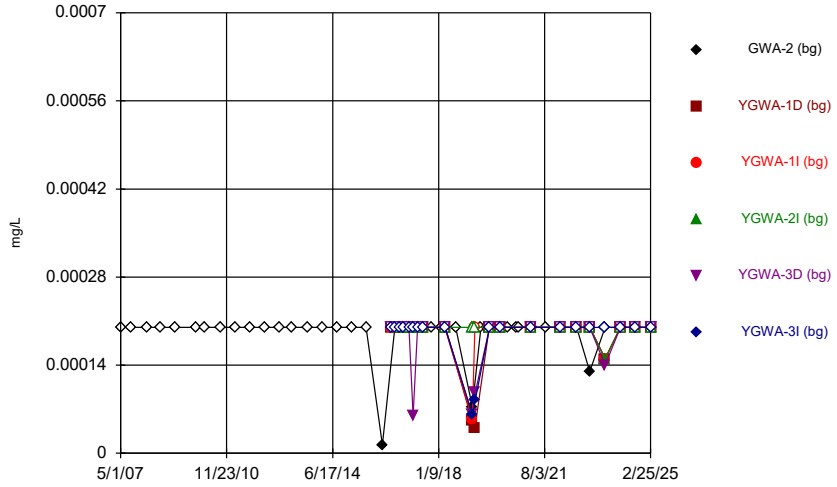
Time Series



Constituent: Lithium Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

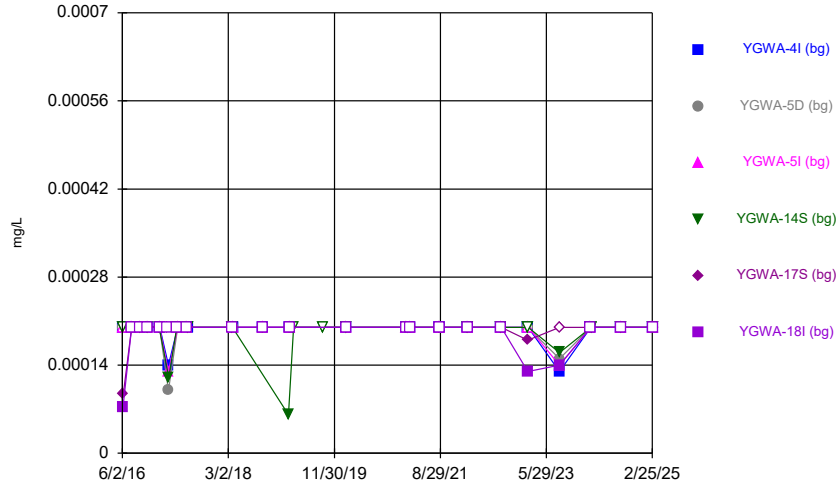
Time Series



Constituent: Mercury Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

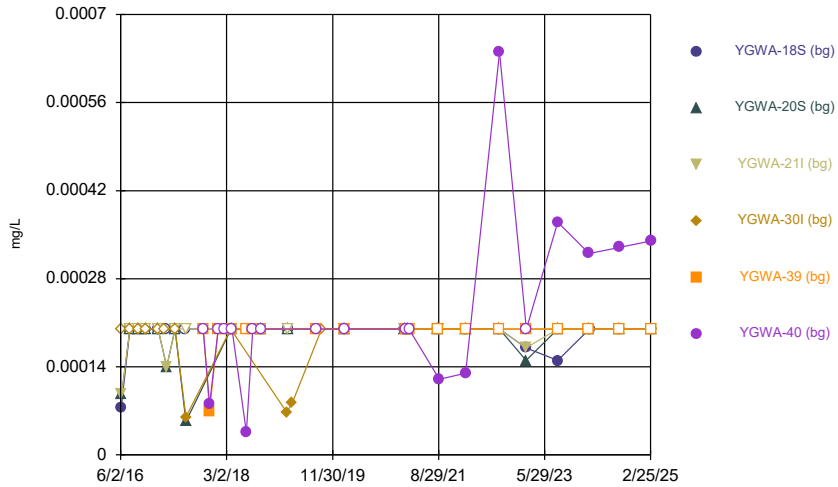
Time Series



Constituent: Mercury Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

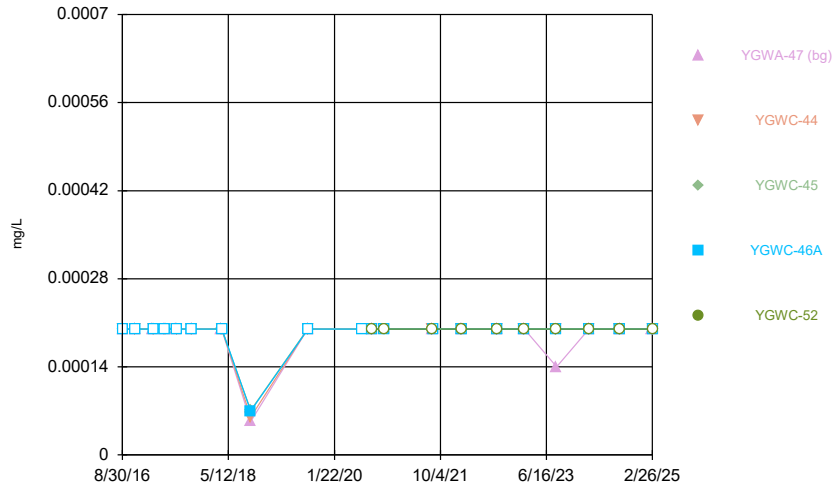
Time Series



Constituent: Mercury Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

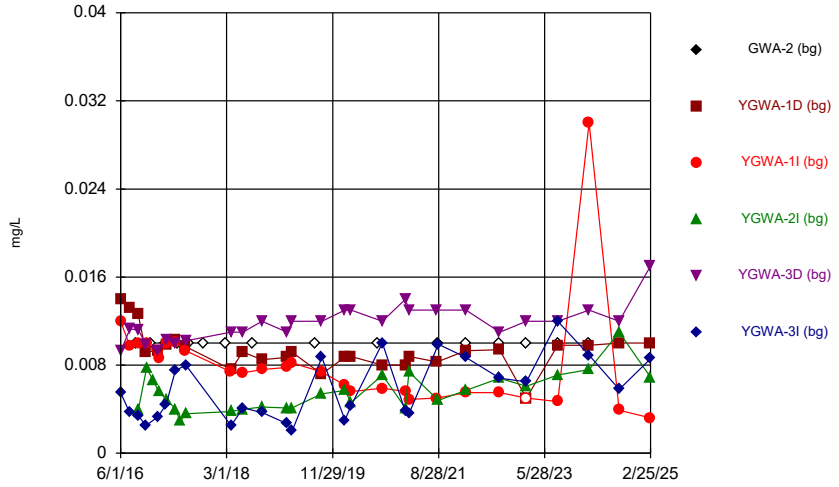
Time Series



Constituent: Mercury Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

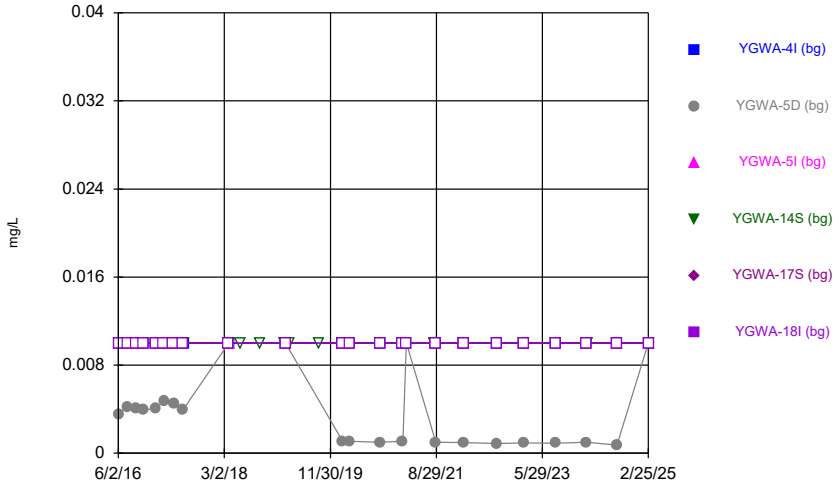
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

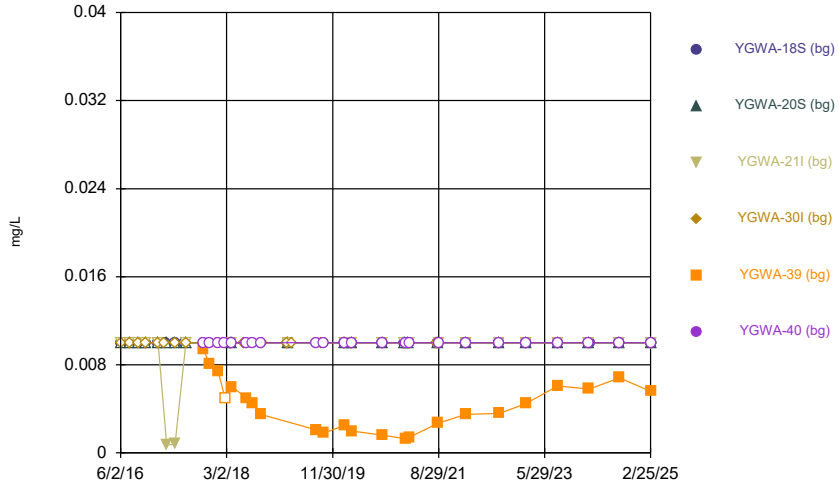
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 7:31 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

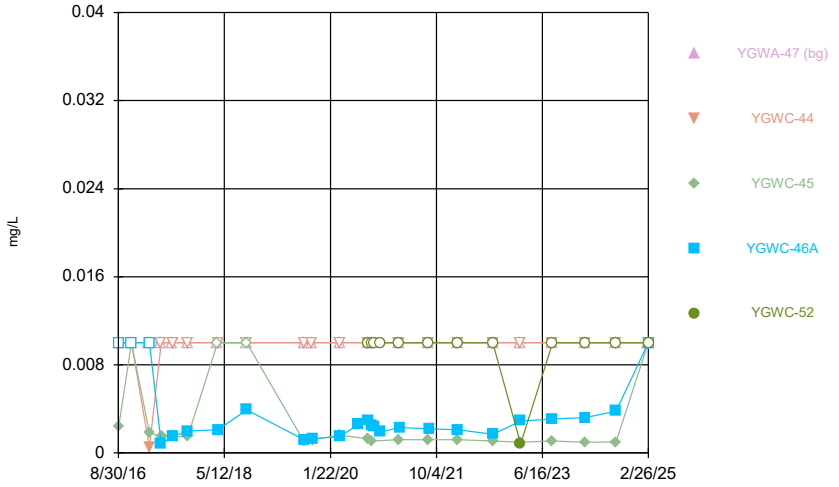
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

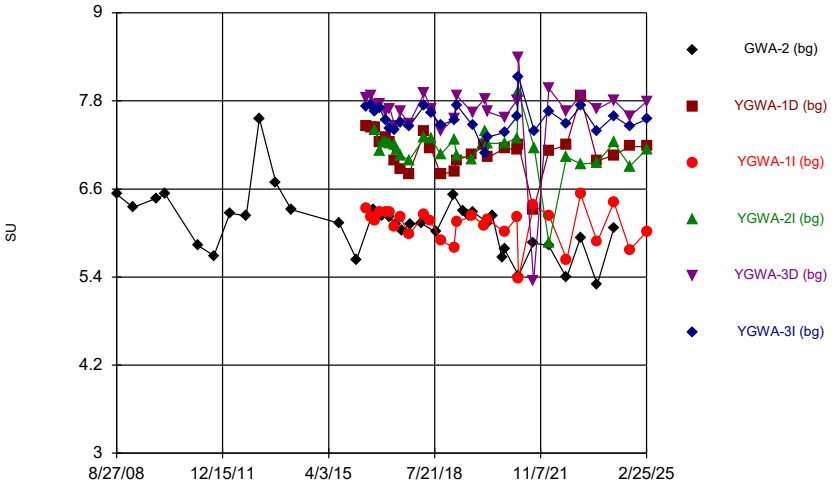
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

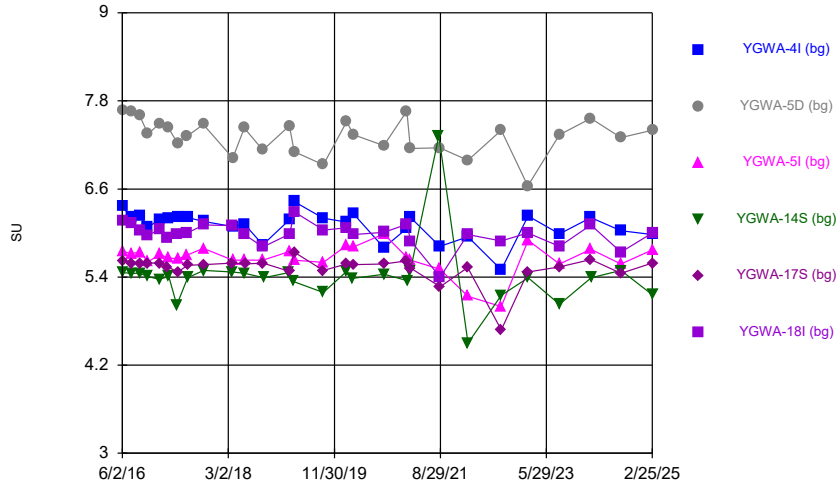
Time Series



Constituent: pH, Field Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

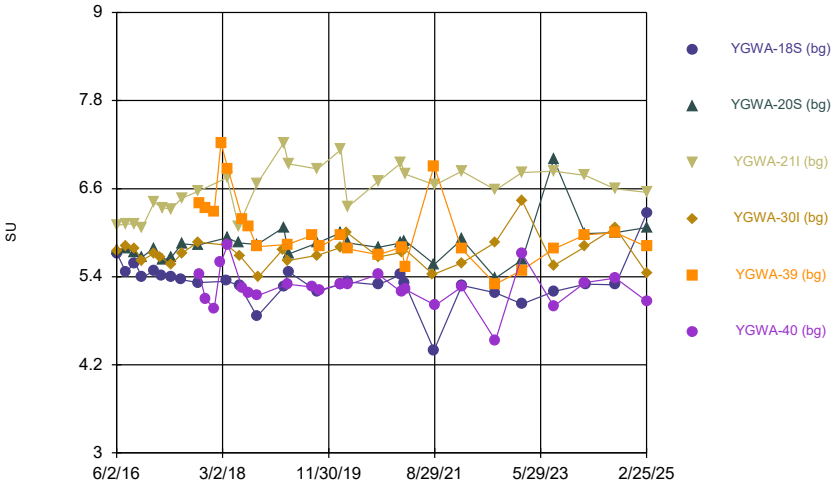
Time Series



Constituent: pH, Field Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

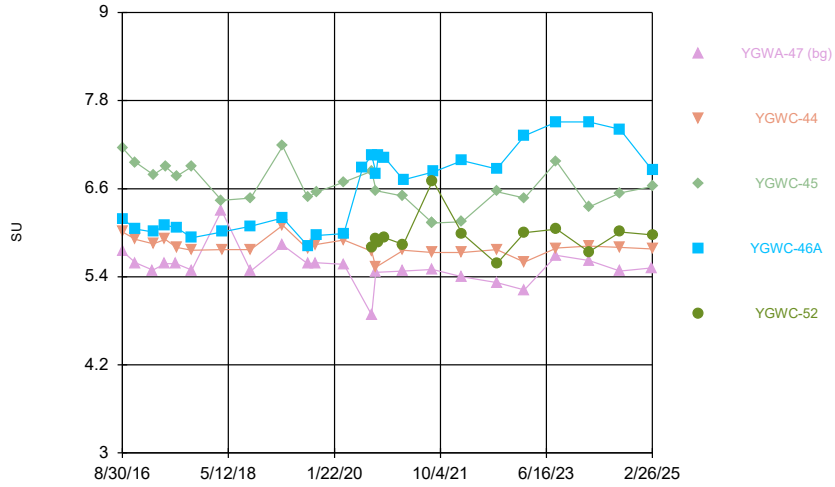
Time Series



Constituent: pH, Field Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

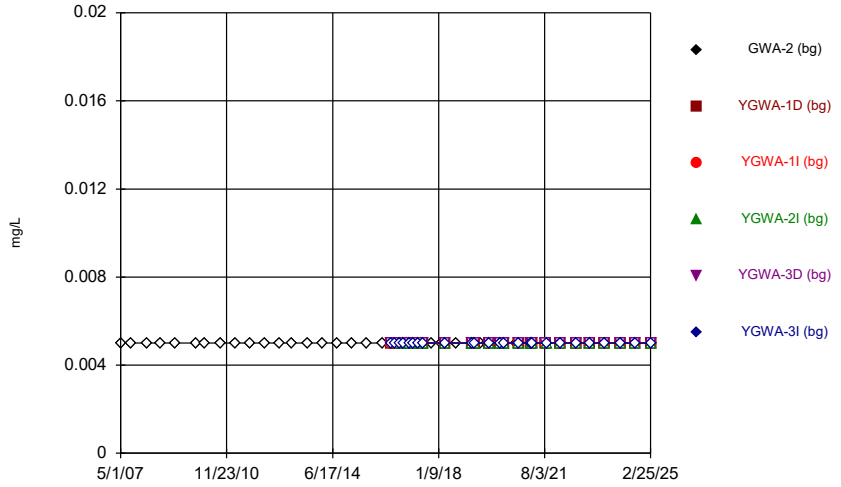
Time Series



Constituent: pH, Field Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

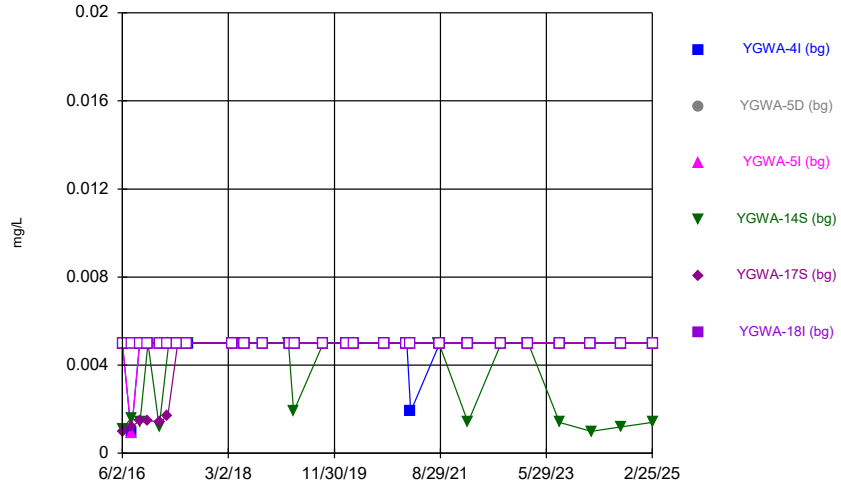
Time Series



Constituent: Selenium Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

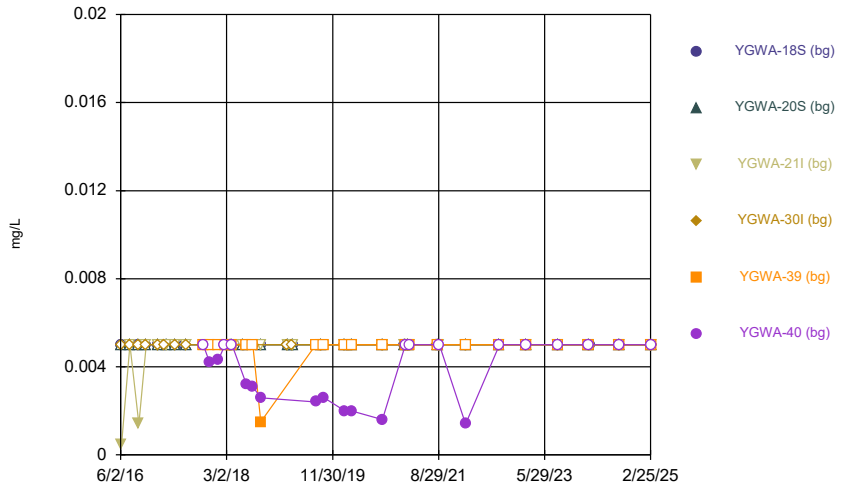
Time Series



Constituent: Selenium Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

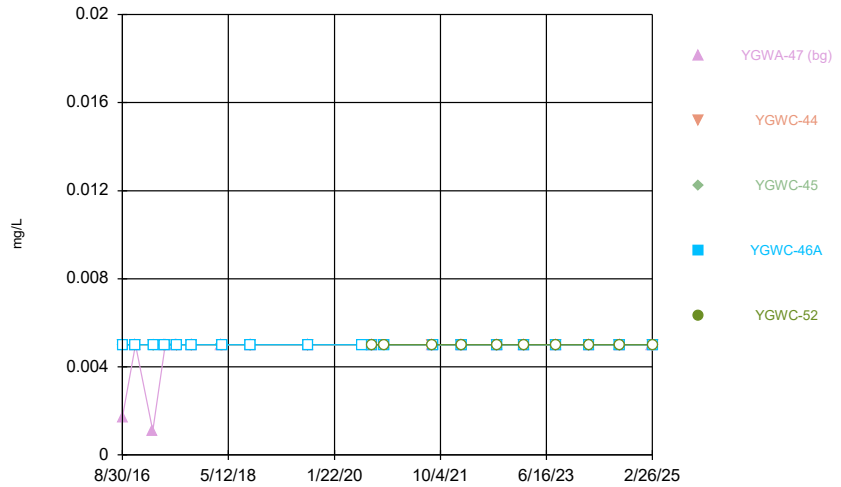
Time Series



Constituent: Selenium Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

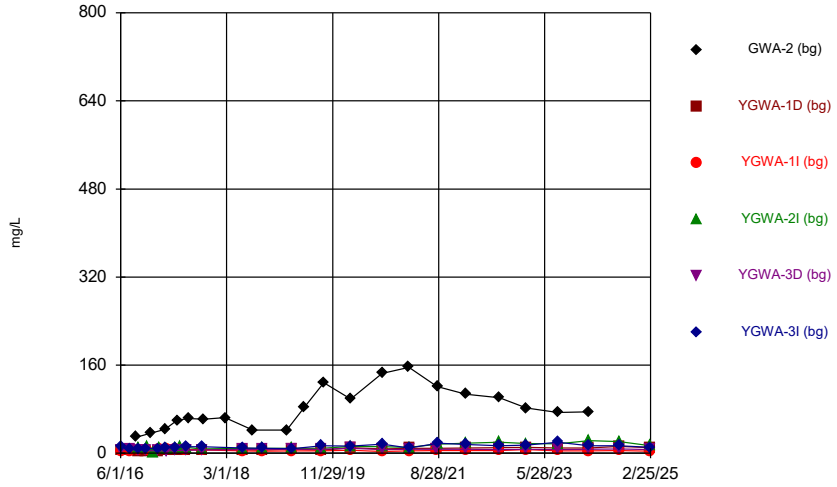
Time Series



Constituent: Selenium Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series



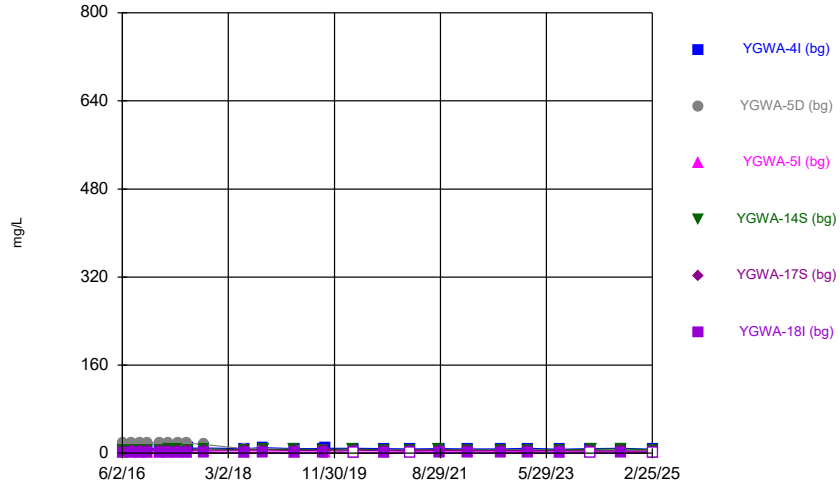
Constituent: Sulfate Analysis Run 5/20/2025 7:32 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



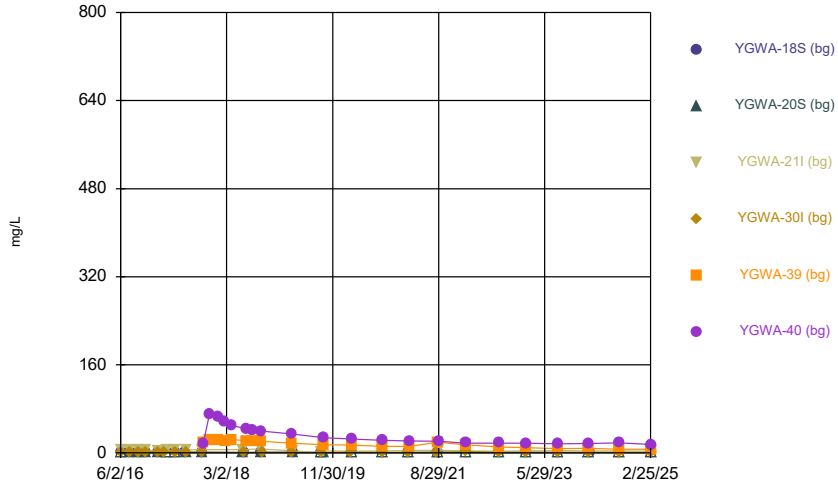
Constituent: Sulfate Analysis Run 5/20/2025 7:32 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



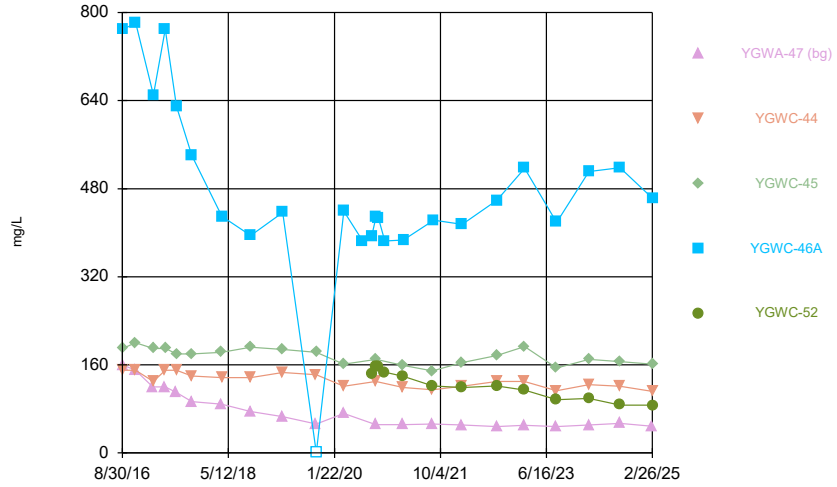
Constituent: Sulfate Analysis Run 5/20/2025 7:32 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

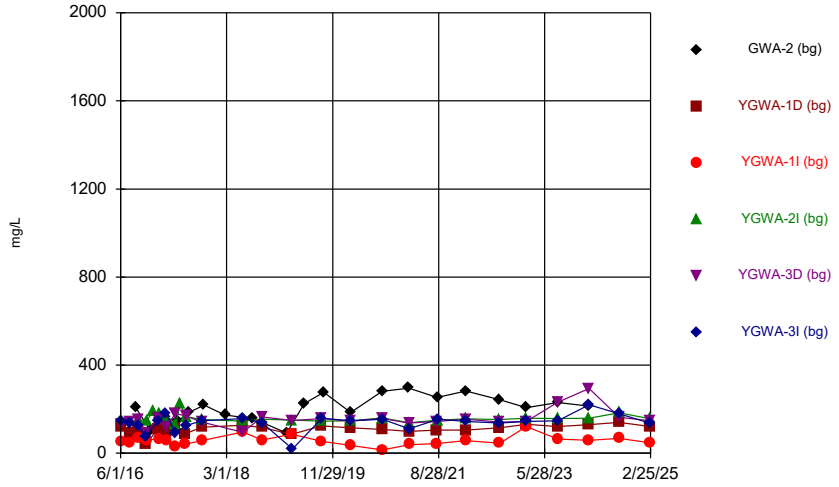


Constituent: Sulfate Analysis Run 5/20/2025 7:32 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

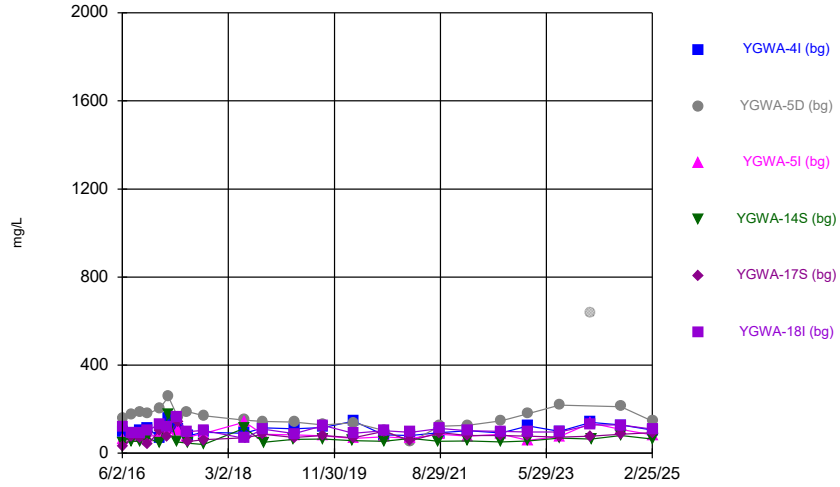


Constituent: TDS Analysis Run 5/20/2025 7:32 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series



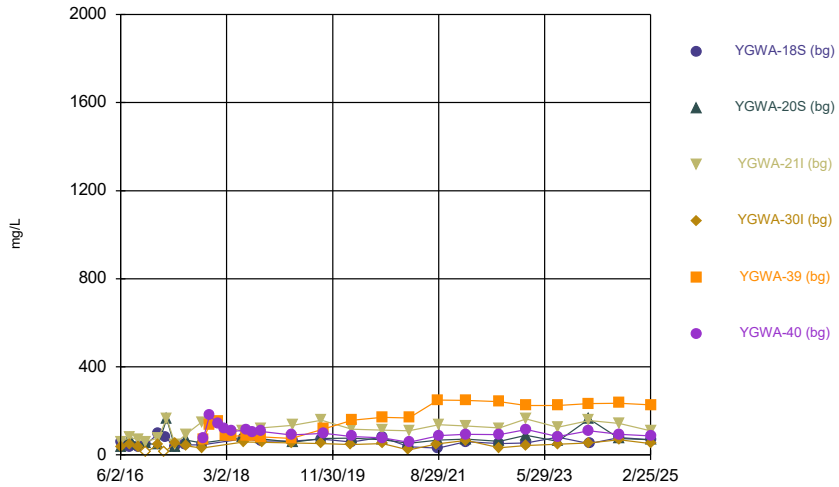
Constituent: TDS Analysis Run 5/20/2025 7:32 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

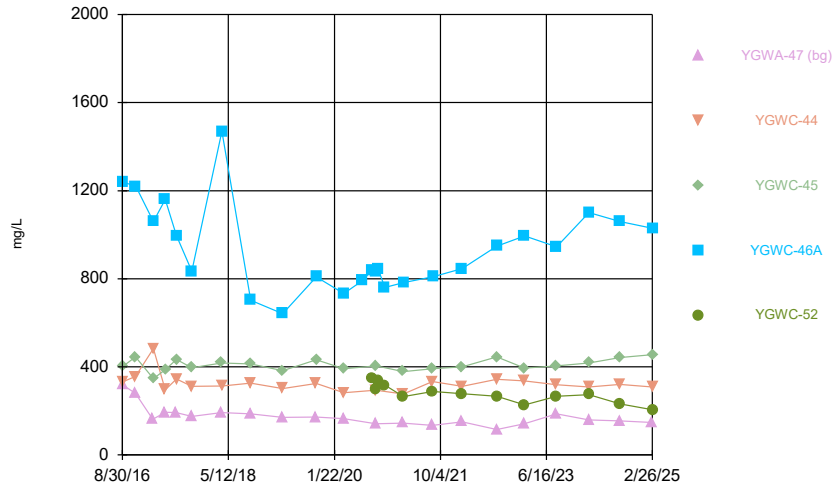


Constituent: TDS Analysis Run 5/20/2025 7:32 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

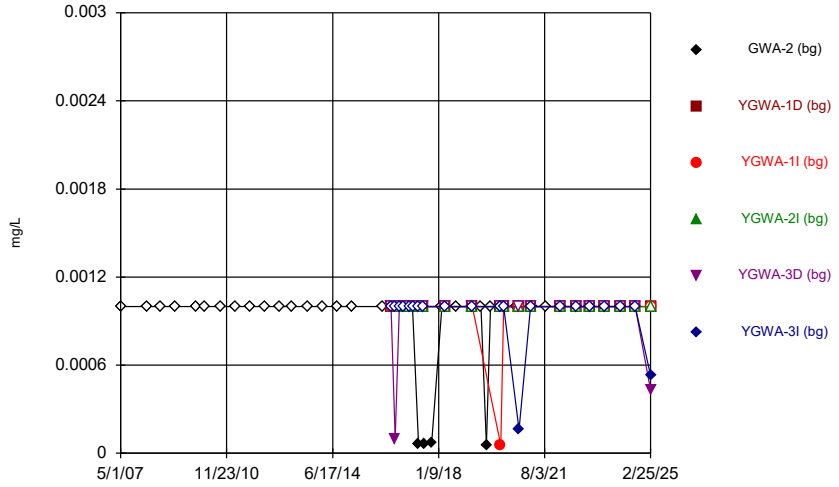


Constituent: TDS Analysis Run 5/20/2025 7:32 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

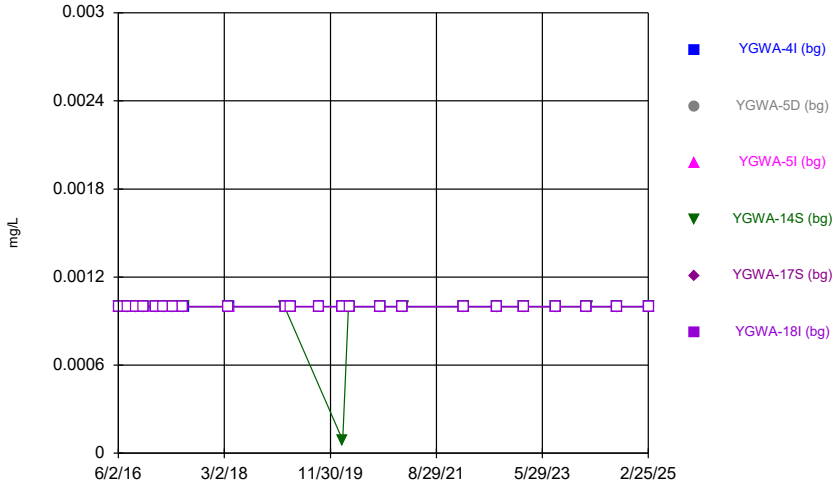
Time Series



Constituent: Thallium Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

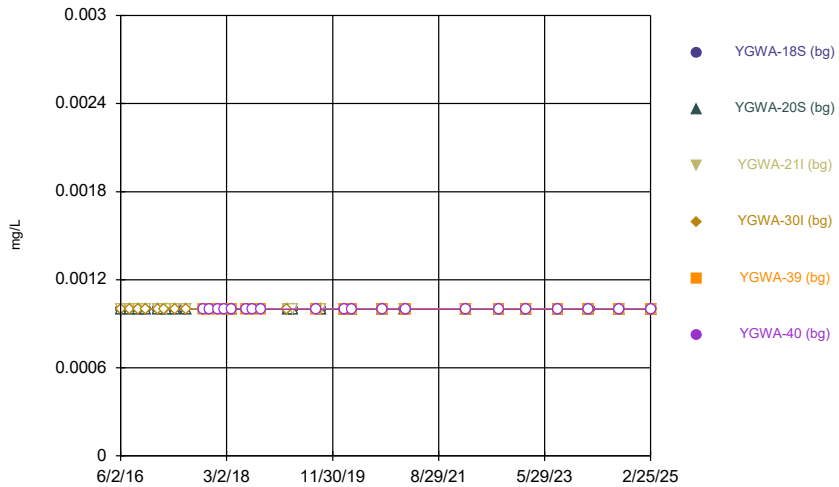
Time Series



Constituent: Thallium Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

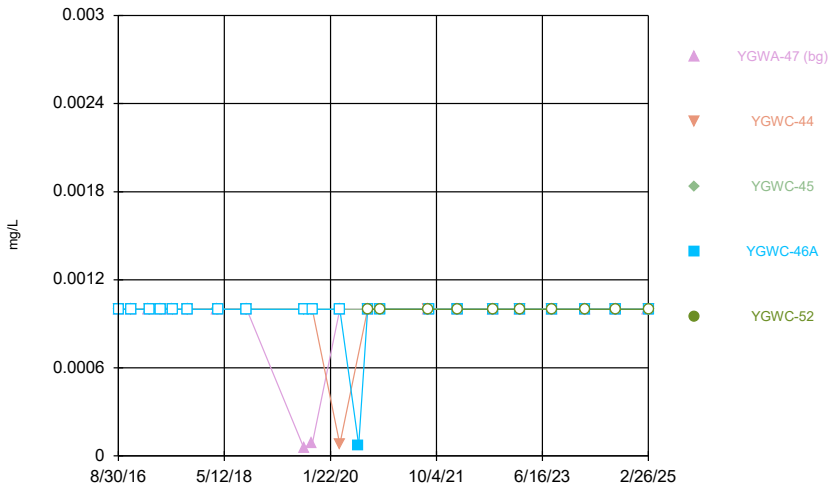
Time Series



Constituent: Thallium Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 5/20/2025 7:32 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	<0.003					
9/12/2007	<0.003					
3/20/2008	<0.003					
8/27/2008	<0.003					
3/3/2009	<0.003					
11/18/2009	<0.003					
3/3/2010	<0.003					
9/8/2010	<0.003					
3/10/2011	<0.003					
9/8/2011	<0.003					
3/5/2012	<0.003					
9/10/2012	<0.003					
2/6/2013	<0.003					
8/12/2013	<0.003					
2/5/2014	<0.003					
8/5/2014	<0.003					
2/4/2015	<0.003					
8/3/2015	<0.003					
2/16/2016	<0.003					
6/1/2016		<0.003	<0.003			<0.003
6/2/2016					<0.003	
7/21/2016	0.0007 (J)					
7/25/2016			0.001 (J)			<0.003
7/26/2016		0.001 (J)			0.002 (J)	
8/31/2016	<0.003					
9/13/2016		0.001 (J)	<0.003			
9/14/2016				<0.003		<0.003
9/15/2016					0.0027 (J)	
11/1/2016		0.0015 (J)			<0.003	<0.003
11/4/2016			<0.003	<0.003		
11/28/2016	0.0014 (J)					
12/15/2016				0.0012 (J)		
1/11/2017		<0.003			<0.003	<0.003
1/16/2017			<0.003	<0.003		
2/22/2017	<0.003					
3/1/2017						<0.003
3/2/2017		0.0004 (J)	<0.003		0.0008 (J)	
3/3/2017				<0.003		
4/26/2017					<0.003	<0.003
4/27/2017		0.0004 (J)	0.0017 (J)			
4/28/2017				0.0015 (J)		
5/8/2017	<0.003					
5/26/2017				0.0005 (J)		
6/27/2017		<0.003	<0.003			
6/28/2017				<0.003	<0.003	<0.003
7/17/2017	<0.003					
10/16/2017	<0.003					
2/19/2018	<0.003					
3/27/2018			<0.003			
3/28/2018				<0.003	<0.003	<0.003
3/29/2018		<0.003				
8/6/2018	<0.003					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/25/2019	<0.003					
2/27/2019		<0.003	<0.003	<0.003	<0.003	<0.003
6/12/2019	<0.003					
8/19/2019	<0.003					
10/8/2019	<0.003					
2/10/2020		0.00088 (J)	<0.003			
2/11/2020				0.00036 (J)		<0.003
2/12/2020					<0.003	
3/17/2020	<0.003					
3/18/2020			0.0004 (J)			
3/19/2020		<0.003		0.0003 (J)	0.00064 (J)	<0.003
8/26/2020	0.00042 (J)					
9/22/2020	0.00044 (J)					
9/23/2020		<0.003	<0.003	<0.003	<0.003	<0.003
2/10/2021				0.0013 (J)	<0.003	<0.003
2/12/2021		<0.003	<0.003			
3/2/2021	<0.003					
3/3/2021		<0.003	<0.003	<0.003	<0.003	<0.003
8/19/2021		<0.003	<0.003		<0.003	
8/20/2021	<0.003					
8/27/2021				<0.003		<0.003
2/8/2022	<0.003					
2/9/2022		<0.003	<0.003	<0.003	0.0018 (J)	<0.003
8/30/2022	<0.003	<0.003		<0.003		
8/31/2022			<0.003		<0.003	<0.003
2/7/2023	<0.003	<0.003	<0.003	<0.003		
2/8/2023					<0.003	<0.003
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003	
8/16/2023						<0.003
2/20/2024	0.0026 (J)	0.0023 (J)	<0.003	0.00067 (J)	<0.003	<0.003
8/20/2024		0.00088 (J)	<0.003	<0.003	<0.003	<0.003
2/25/2025		<0.003	<0.003	<0.003	0.00072 (J)	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.003	<0.003	<0.003	<0.003		
6/6/2016						<0.003
6/7/2016					<0.003	
7/26/2016	0.0003 (J)	<0.003	<0.003	0.0005 (J)		
7/27/2016					<0.003	0.0005 (J)
9/14/2016	<0.003	<0.003	<0.003			
9/15/2016				<0.003		
9/16/2016					<0.003	
9/19/2016						<0.003
11/2/2016	<0.003	<0.003		<0.003		
11/3/2016					<0.003	<0.003
11/4/2016			<0.003			
1/10/2017				<0.003		
1/11/2017					<0.003	<0.003
1/12/2017		<0.003	<0.003			
1/13/2017	<0.003					
3/1/2017						<0.003
3/2/2017					<0.003	
3/6/2017	<0.003					
3/7/2017		<0.003	<0.003			
3/8/2017				<0.003		
4/26/2017				<0.003		<0.003
5/1/2017	<0.003	<0.003				
5/2/2017			<0.003		<0.003	
6/27/2017		<0.003	<0.003			
6/28/2017						<0.003
6/29/2017	<0.003				<0.003	
6/30/2017				<0.003		
3/27/2018				<0.003		
3/28/2018					<0.003	<0.003
3/29/2018	<0.003	<0.003	<0.003			
2/26/2019				<0.003		
3/4/2019	<0.003	<0.003	<0.003			
3/5/2019					<0.003	
3/6/2019						<0.003
4/2/2019					<0.003	
4/3/2019	<0.003	<0.003	<0.003			<0.003
9/24/2019		<0.003	<0.003			
9/25/2019	<0.003				<0.003	
9/26/2019						0.00056 (J)
2/11/2020					<0.003	<0.003
2/12/2020	<0.003	<0.003	<0.003	<0.003		
3/18/2020				<0.003		
3/24/2020		<0.003	<0.003		<0.003	<0.003
3/25/2020	<0.003					
9/22/2020	<0.003	<0.003	<0.003			
9/23/2020					<0.003	<0.003
9/25/2020				<0.003		
2/8/2021		<0.003	<0.003			
2/9/2021	<0.003				<0.003	<0.003
2/10/2021				<0.003		
3/2/2021		<0.003	<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
3/3/2021	<0.003				<0.003	<0.003
8/19/2021				<0.003		
8/26/2021	<0.003	<0.003	<0.003			
8/27/2021					<0.003	<0.003
2/9/2022					<0.003	<0.003
2/10/2022		<0.003	<0.003	<0.003		
2/11/2022	<0.003					
8/30/2022		<0.003	<0.003		<0.003	<0.003
8/31/2022	<0.003			<0.003		
2/7/2023		<0.003			0.0013 (J)	<0.003
2/8/2023				<0.003		
2/9/2023	<0.003		<0.003			
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/20/2024	0.00061 (J)	<0.003	<0.003		<0.003	<0.003
2/23/2024				<0.003		
8/20/2024	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/25/2025	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.003		
6/6/2016	<0.003					
6/7/2016		<0.003	<0.003			
7/25/2016				0.0007 (J)		
7/27/2016	<0.003	<0.003				
7/28/2016			<0.003			
9/16/2016	<0.003					
9/19/2016		<0.003	0.001 (J)	<0.003		
11/1/2016				<0.003		
11/2/2016		<0.003				
11/3/2016	<0.003		<0.003			
1/11/2017	<0.003					
1/13/2017		<0.003	<0.003			
1/16/2017				<0.003		
2/21/2017				<0.003		
3/1/2017	<0.003					
3/6/2017		<0.003	0.0005 (J)			
4/26/2017	<0.003	<0.003	<0.003	<0.003		
6/28/2017	<0.003					
6/29/2017		<0.003	<0.003			
6/30/2017				<0.003		
10/11/2017					0.0006 (J)	
10/12/2017						<0.003
11/20/2017					<0.003	<0.003
1/10/2018						<0.003
1/11/2018					<0.003	
2/19/2018						<0.003
2/20/2018					<0.003	
3/27/2018				<0.003		
3/28/2018	<0.003					
3/29/2018		<0.003	<0.003			
4/3/2018					<0.003	<0.003
6/28/2018					<0.003	<0.003
8/7/2018					<0.003	<0.003
9/24/2018					<0.003	<0.003
2/26/2019				<0.003		
3/5/2019	<0.003	<0.003	0.0011 (J)			
4/2/2019			0.0011 (J)			
4/3/2019	<0.003	<0.003				
8/21/2019					<0.003	<0.003
9/24/2019			0.0035			
9/25/2019		<0.003				
9/26/2019	<0.003					
2/11/2020	<0.003					
2/12/2020		<0.003	0.0015 (J)	<0.003	<0.003	<0.003
3/19/2020				<0.003		
3/24/2020	<0.003	<0.003	0.0017 (J)			<0.003
3/25/2020					0.0014 (J)	
9/23/2020	<0.003					
9/24/2020		<0.003	0.0047	<0.003	<0.003	<0.003
2/9/2021	<0.003	0.00032 (J)	0.0013 (J)			
2/10/2021					<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/2021				<0.003		
3/1/2021				<0.003		
3/3/2021	0.00067 (J)	<0.003				
3/4/2021			0.0014 (J)		<0.003	<0.003
8/19/2021				<0.003		
8/26/2021	<0.003				<0.003	
8/27/2021		<0.003				
9/1/2021			<0.003			
9/3/2021						<0.003
2/8/2022					<0.003	<0.003
2/9/2022	<0.003	<0.003	<0.003			
2/11/2022				<0.003		
8/30/2022	<0.003		0.0046			
8/31/2022		<0.003		<0.003	<0.003	<0.003
2/7/2023	<0.003	<0.003	<0.003		<0.003	
2/8/2023				<0.003		<0.003
8/15/2023	<0.003	<0.003	<0.003		<0.003	<0.003
8/16/2023				<0.003		
2/20/2024		<0.003	0.0013 (J)	<0.003	<0.003	<0.003
2/23/2024	<0.003					
8/20/2024		<0.003	<0.003	<0.003		
8/21/2024	<0.003				<0.003	<0.003
2/25/2025	<0.003	<0.003	0.00054 (J)	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	0.0028 (J)				
8/31/2016		<0.003	<0.003		
9/1/2016				<0.003	
11/14/2016	<0.003		<0.003		
11/15/2016		<0.003			
11/16/2016				<0.003	
2/24/2017	<0.003				
2/27/2017			<0.003	<0.003	
2/28/2017		<0.003			
5/8/2017	0.0004 (J)	<0.003		<0.003	
5/9/2017			<0.003		
7/11/2017	0.0006 (J)				
7/13/2017		<0.003	<0.003	<0.003	
10/10/2017	<0.003	<0.003	<0.003		
10/11/2017				<0.003	
4/2/2018	<0.003				
4/3/2018			<0.003		
4/4/2018		<0.003		<0.003	
9/19/2018	<0.003	<0.003	<0.003	<0.003	
8/20/2019	<0.003	<0.003	<0.003		
8/21/2019				<0.003	
7/6/2020				<0.003	
8/27/2020	0.00048 (J)	<0.003			<0.003
8/28/2020			0.0017 (J)	0.00029 (J)	
9/22/2020	<0.003	<0.003			<0.003
9/23/2020			<0.003	<0.003	
10/7/2020				<0.003	<0.003
11/12/2020				<0.003	<0.003
3/1/2021	0.00048 (J)	<0.003	<0.003		<0.003
3/2/2021				<0.003	
8/19/2021	<0.003	<0.003	<0.003		
8/20/2021					<0.003
8/27/2021				<0.003	
2/8/2022	<0.003				
2/9/2022		<0.003	<0.003	<0.003	<0.003
8/31/2022	<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2023	<0.003	<0.003			
2/9/2023			<0.003		
2/10/2023				<0.003	<0.003
8/15/2023	<0.003	0.0023 (J)	<0.003	<0.003	<0.003
2/20/2024	<0.003				
2/21/2024		<0.003	<0.003	<0.003	<0.003
8/20/2024	<0.003				
8/21/2024		<0.003	<0.003	<0.003	
8/22/2024					<0.003
2/25/2025	<0.003				
2/26/2025		<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	<0.005					
9/12/2007	<0.005					
3/20/2008	<0.005					
8/27/2008	<0.005					
3/3/2009	<0.005					
11/18/2009	<0.005					
3/3/2010	<0.005					
9/8/2010	<0.005					
3/10/2011	<0.005					
9/8/2011	<0.005					
3/5/2012	<0.005					
9/10/2012	<0.005					
2/6/2013	<0.005					
8/12/2013	<0.005					
2/5/2014	<0.005					
8/5/2014	<0.005					
2/4/2015	<0.005					
8/3/2015	<0.005					
2/16/2016	<0.005					
6/1/2016		0.0021	<0.005			<0.005
6/2/2016					<0.005	
7/21/2016	<0.005					
7/25/2016			<0.005			<0.005
7/26/2016		0.0016 (J)			<0.005	
8/31/2016	<0.005					
9/13/2016		<0.005	<0.005			
9/14/2016				<0.005		<0.005
9/15/2016					<0.005	
11/1/2016		<0.005			<0.005	<0.005
11/4/2016			<0.005	0.0017 (J)		
11/28/2016	<0.005					
12/15/2016				0.0023 (J)		
1/11/2017		0.0017 (J)			<0.005	<0.005
1/16/2017			<0.005	0.0018 (J)		
2/22/2017	<0.005					
3/1/2017						0.0004 (J)
3/2/2017		0.0014 (J)	<0.005		<0.005	
3/3/2017				0.0016 (J)		
4/26/2017					0.0009 (J)	0.0014 (J)
4/27/2017		0.0018 (J)	<0.005			
4/28/2017				0.002 (J)		
5/8/2017	<0.005					
5/26/2017				0.0005 (J)		
6/27/2017		0.0018 (J)	<0.005			
6/28/2017				0.0016 (J)	0.0007 (J)	0.0011 (J)
7/17/2017	<0.005					
10/16/2017	<0.005					
2/19/2018	<0.005					
3/27/2018			<0.005			
3/28/2018				0.0013 (J)	<0.005	<0.005
3/29/2018		0.0017 (J)				
6/5/2018		0.0013 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/6/2018			<0.005			
6/7/2018				0.00082 (J)	<0.005	
6/8/2018						<0.005
8/6/2018	<0.005					
10/1/2018		0.0016 (J)	<0.005	0.0011 (J)	<0.005	<0.005
2/25/2019	<0.005					
2/27/2019		0.0015 (J)	<0.005	0.001 (J)	<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005			
3/29/2019				0.00063 (J)		
4/1/2019					<0.005	<0.005
6/12/2019	0.00038 (J)					
8/19/2019	0.00095 (J)					
9/24/2019		0.0014 (J)	<0.005	<0.005		
9/25/2019					<0.005	<0.005
10/8/2019	<0.005					
2/10/2020		0.0026 (J)	0.0005 (J)			
2/11/2020				0.0044 (J)		0.0041 (J)
2/12/2020					0.0038 (J)	
3/17/2020	<0.005					
3/18/2020			<0.005			
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005
8/26/2020	<0.005					
9/22/2020	<0.005					
9/23/2020		0.0011 (J)	<0.005	0.001 (J)	<0.005	<0.005
2/10/2021				<0.005	0.00094 (J)	0.00078 (J)
2/12/2021		<0.005	<0.005			
3/2/2021	<0.005					
3/3/2021		<0.005	<0.005	0.00098 (J)	<0.005	<0.005
8/19/2021		<0.005	<0.005		<0.005	
8/20/2021	<0.005					
8/27/2021				<0.005		<0.005
2/8/2022	0.0033 (J)					
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)	0.002 (J)	0.0018 (J)
8/30/2022	0.0024 (J)	<0.005		0.0027 (J)		
8/31/2022			<0.005		0.0028 (J)	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005		
2/8/2023					0.003 (J)	0.0024 (J)
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
8/16/2023						<0.005
2/20/2024	0.0015 (J)	<0.005	<0.005	0.0019 (J)	0.0027 (J)	0.0013 (J)
8/20/2024		0.00099 (J)	<0.005	<0.005	<0.005	<0.005
2/25/2025		0.0016 (J)	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.005	0.00071 (J)	<0.005	<0.005		
6/6/2016						<0.005
6/7/2016					<0.005	
7/26/2016	<0.005	0.001 (J)	<0.005	<0.005		
7/27/2016					<0.005	<0.005
9/14/2016	<0.005	<0.005	<0.005			
9/15/2016				<0.005		
9/16/2016					<0.005	
9/19/2016						<0.005
11/2/2016	<0.005	<0.005		<0.005		
11/3/2016					<0.005	<0.005
11/4/2016			<0.005			
1/10/2017				<0.005		
1/11/2017					<0.005	<0.005
1/12/2017		<0.005	<0.005			
1/13/2017	<0.005					
3/1/2017						<0.005
3/2/2017					<0.005	
3/6/2017	<0.005					
3/7/2017		0.0012 (J)	<0.005			
3/8/2017				<0.005		
4/26/2017				0.0007 (J)		0.0008 (J)
5/1/2017	<0.005	0.001 (J)				
5/2/2017			0.0006 (J)		<0.005	
6/27/2017		0.0019 (J)	<0.005			
6/28/2017						<0.005
6/29/2017	<0.005				<0.005	
6/30/2017				<0.005		
3/27/2018				<0.005		
3/28/2018					<0.005	<0.005
3/29/2018	<0.005	0.0006 (J)	<0.005			
6/6/2018		0.0013 (J)				
6/7/2018	0.00059 (J)		<0.005			0.00066 (J)
6/8/2018				<0.005		
6/11/2018					<0.005	
9/25/2018					<0.005	<0.005
9/26/2018	<0.005	0.0014 (J)	<0.005			
10/1/2018				<0.005		
2/26/2019				<0.005		
3/4/2019	<0.005	<0.005	<0.005			
3/5/2019					<0.005	
3/6/2019						<0.005
3/29/2019				<0.005		
4/2/2019					<0.005	
4/3/2019	<0.005	<0.005	<0.005			<0.005
9/24/2019		0.00043 (J)	<0.005			
9/25/2019	<0.005			<0.005	<0.005	
9/26/2019						<0.005
2/11/2020					0.0022 (J)	0.0014 (J)
2/12/2020	<0.005	0.0046 (J)	0.002 (J)	<0.005		
3/18/2020				<0.005		
3/24/2020		0.00065 (J)	<0.005		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
3/25/2020	<0.005					
9/22/2020	<0.005	0.001 (J)	<0.005			
9/23/2020					<0.005	<0.005
9/25/2020				<0.005		
2/8/2021		<0.005	<0.005			
2/9/2021	<0.005				<0.005	<0.005
2/10/2021				<0.005		
3/2/2021		<0.005	<0.005	<0.005		
3/3/2021	<0.005				<0.005	<0.005
8/19/2021				<0.005		
8/26/2021	<0.005	0.0016 (J)	<0.005			
8/27/2021					<0.005	<0.005
2/9/2022					0.0024 (J)	0.0022 (J)
2/10/2022		0.004 (J)	0.0016 (J)	0.0016 (J)		
2/11/2022	0.0014 (J)					
8/30/2022		0.0031 (J)	<0.005		<0.005	<0.005
8/31/2022	<0.005			<0.005		
2/7/2023		0.003 (J)			<0.005	<0.005
2/8/2023				<0.005		
2/9/2023	<0.005		<0.005			
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	0.003 (J)	<0.005		<0.005	<0.005
2/23/2024				<0.005		
8/20/2024	<0.005	0.0012 (J)	<0.005	<0.005	<0.005	<0.005
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.005		
6/6/2016	<0.005					
6/7/2016		<0.005	<0.005			
7/25/2016				<0.005		
7/27/2016	<0.005	<0.005				
7/28/2016			<0.005			
9/16/2016	<0.005					
9/19/2016		<0.005	<0.005	<0.005		
11/1/2016				<0.005		
11/2/2016		<0.005				
11/3/2016	<0.005		<0.005			
1/11/2017	<0.005					
1/13/2017		<0.005	<0.005			
1/16/2017				<0.005		
2/21/2017				<0.005		
3/1/2017	<0.005					
3/6/2017		<0.005	0.0017 (J)			
4/26/2017	<0.005	<0.005	0.0017 (J)	<0.005		
6/28/2017	<0.005					
6/29/2017		<0.005	0.0012 (J)			
6/30/2017				<0.005		
10/11/2017					0.0009 (J)	
10/12/2017						<0.005
11/20/2017					<0.005	<0.005
1/10/2018						<0.005
1/11/2018					<0.005	
2/19/2018						<0.005
2/20/2018					<0.005	
3/27/2018				<0.005		
3/28/2018	0.00061 (J)					
3/29/2018		<0.005	0.0015 (J)			
4/3/2018					<0.005	<0.005
6/5/2018			0.0013 (J)			
6/6/2018		<0.005				
6/11/2018	<0.005			<0.005		
6/28/2018					<0.005	<0.005
8/7/2018					<0.005	<0.005
9/24/2018					<0.005	<0.005
9/25/2018	<0.005	<0.005	0.0022 (J)			
10/2/2018				<0.005		
2/26/2019				<0.005		
3/5/2019	<0.005	<0.005	0.0013 (J)			
4/1/2019				<0.005		
4/2/2019			0.00096 (J)			
4/3/2019	<0.005	<0.005				
8/21/2019					0.00058 (J)	<0.005
9/24/2019			0.0026 (J)			
9/25/2019		<0.005		<0.005		
9/26/2019	<0.005					
10/9/2019					0.00063 (J)	<0.005
2/11/2020	0.0026 (J)					
2/12/2020		<0.005	0.0025 (J)	0.0032 (J)	0.00058 (J)	0.0034 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/19/2020				<0.005		
3/24/2020	<0.005	<0.005	0.0013 (J)			<0.005
3/25/2020					0.0012 (J)	
9/23/2020	<0.005					
9/24/2020		<0.005	0.0014 (J)	<0.005	<0.005	<0.005
2/9/2021	<0.005	<0.005	0.001 (J)			
2/10/2021					<0.005	<0.005
2/11/2021				<0.005		
3/1/2021				<0.005		
3/3/2021	<0.005	<0.005				
3/4/2021			0.00078 (J)		<0.005	<0.005
8/19/2021				<0.005		
8/26/2021	<0.005				<0.005	
8/27/2021		<0.005				
9/1/2021			<0.005			
9/3/2021						<0.005
2/8/2022					0.0034 (J)	0.003 (J)
2/9/2022	0.0024 (J)	0.0021 (J)	0.0036 (J)			
2/11/2022				0.0014 (J)		
8/30/2022	<0.005		0.0022 (J)			
8/31/2022		<0.005		<0.005	0.0029 (J)	<0.005
2/7/2023	<0.005	<0.005	0.0028 (J)		0.0029 (J)	
2/8/2023				<0.005		<0.005
8/15/2023	<0.005	<0.005	<0.005		<0.005	<0.005
8/16/2023				<0.005		
2/20/2024		<0.005	<0.005	<0.005	0.002 (J)	0.0012 (J)
2/23/2024	<0.005					
8/20/2024		<0.005	<0.005	<0.005		
8/21/2024	<0.005				0.0027 (J)	0.0014 (J)
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	<0.005				
8/31/2016		<0.005	<0.005		
9/1/2016				<0.005	
11/14/2016	<0.005		<0.005		
11/15/2016		<0.005			
11/16/2016				<0.005	
2/24/2017	<0.005				
2/27/2017			<0.005	<0.005	
2/28/2017		0.0005 (J)			
5/8/2017	<0.005	0.0006 (J)		0.0007 (J)	
5/9/2017			<0.005		
7/11/2017	<0.005				
7/13/2017		<0.005	<0.005	0.0011 (J)	
10/10/2017	0.0007 (J)	0.0007 (J)	0.0006 (J)		
10/11/2017				0.0011 (J)	
4/2/2018	<0.005				
4/3/2018			0.00061 (J)		
4/4/2018		<0.005		0.00087 (J)	
9/19/2018	0.00072 (J)	0.00086 (J)	0.00072 (J)	0.0012 (J)	
8/20/2019	<0.005	0.00097 (J)	0.00078 (J)		
8/21/2019				0.00074 (J)	
10/8/2019	<0.005	<0.005			
10/9/2019			<0.005	<0.005	
3/17/2020	<0.005	<0.005	<0.005	<0.005	
7/6/2020				0.00079 (J)	
8/27/2020	<0.005	<0.005			<0.005
8/28/2020			<0.005	0.0015 (J)	
9/22/2020	<0.005	<0.005			<0.005
9/23/2020			<0.005	0.00091 (J)	
10/7/2020				0.001 (J)	<0.005
11/12/2020				0.0014 (J)	<0.005
3/1/2021	<0.005	<0.005	<0.005		<0.005
3/2/2021				0.0016 (J)	
8/19/2021	<0.005	<0.005	<0.005		
8/20/2021					<0.005
8/27/2021				0.0022 (J)	
2/8/2022	0.0027 (J)				
2/9/2022		<0.005	<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023	<0.005	<0.005			
2/9/2023			<0.005		
2/10/2023				<0.005	<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005				
2/21/2024		0.0041 (J)	0.0028 (J)	0.0024 (J)	0.0044 (J)
8/20/2024	<0.005				
8/21/2024		0.0043 (J)	<0.005	0.002 (J)	
8/22/2024					<0.005
2/25/2025	<0.005				
2/26/2025		<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	0.032					
9/12/2007	0.017					
3/20/2008	0.025					
8/27/2008	0.041					
3/3/2009	0.053					
11/18/2009	0.05					
3/3/2010	0.061					
9/8/2010	0.071					
3/10/2011	0.057					
9/8/2011	0.057					
3/5/2012	0.061					
9/10/2012	0.055					
2/6/2013	0.061					
8/12/2013	0.055					
2/5/2014	0.063					
8/5/2014	0.038					
2/4/2015	0.039					
8/3/2015	0.031					
2/16/2016	0.045					
6/1/2016		0.008	0.012			0.0038
6/2/2016					0.01	
7/21/2016	0.0457					
7/25/2016			0.0091 (J)			0.0031 (J)
7/26/2016		0.006 (J)			0.0088 (J)	
8/31/2016	0.0542					
9/13/2016		0.0084 (J)	0.008 (J)			
9/14/2016				0.0037 (J)		0.0027 (J)
9/15/2016					0.009 (J)	
11/1/2016		0.0062 (J)			0.0079 (J)	0.0027 (J)
11/4/2016			0.0067 (J)	0.0059 (J)		
11/28/2016	0.0529					
12/15/2016				0.0056 (J)		
1/11/2017		0.0069 (J)			0.0075 (J)	0.0036 (J)
1/16/2017			0.0096 (J)	0.0049 (J)		
2/22/2017	0.0607					
3/1/2017						0.0036 (J)
3/2/2017		0.0071 (J)	0.0112		0.009 (J)	
3/3/2017				0.0046 (J)		
4/26/2017					0.0078 (J)	0.0038 (J)
4/27/2017		0.0064 (J)	0.0106			
4/28/2017				0.0039 (J)		
5/8/2017	0.065					
5/26/2017				0.0034 (J)		
6/27/2017		0.0054 (J)	0.0092 (J)			
6/28/2017				0.003 (J)	0.0071 (J)	0.004 (J)
7/17/2017	0.06					
10/16/2017	0.0542					
2/19/2018	0.0533					
3/27/2018			<0.01			
3/28/2018				<0.01	<0.01	<0.01
3/29/2018		<0.01				
6/5/2018		0.0069 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/6/2018			0.0082 (J)			
6/7/2018				0.0037 (J)	0.0068 (J)	
6/8/2018						0.0034 (J)
8/6/2018	0.044					
10/1/2018		0.0062 (J)	0.0084 (J)	0.0038 (J)	0.0065 (J)	0.0034 (J)
2/25/2019	0.045					
2/27/2019		0.0074 (J)	0.008 (J)	0.0035 (J)	0.0059 (J)	0.0034 (J)
3/28/2019		0.0082 (J)	0.0082 (J)			
3/29/2019				0.0039 (J)		
4/1/2019					0.0064 (J)	0.003 (J)
6/12/2019	0.063					
8/19/2019	0.065					
9/24/2019		0.0072 (J)	0.0086 (J)	0.0038 (J)		
9/25/2019					0.0059 (J)	0.005 (J)
10/8/2019	0.058					
2/10/2020		0.0066 (J)	0.0091 (J)			
2/11/2020				0.0036 (J)		0.0031 (J)
2/12/2020					0.0062 (J)	
3/17/2020	0.047					
3/18/2020			0.0084 (J)			
3/19/2020		0.0076 (J)		0.0036 (J)	0.0072 (J)	0.0029 (J)
8/26/2020	0.044					
9/22/2020	0.045					
9/23/2020		0.0068 (J)	0.0079 (J)	0.0039 (J)	0.0051 (J)	0.0039 (J)
2/10/2021				0.0032 (J)	0.0059 (J)	0.0029 (J)
2/12/2021		0.0057 (J)	0.009 (J)			
3/2/2021	0.039					
3/3/2021		0.0068	0.0094	0.0041 (J)	0.0064	0.0031 (J)
8/19/2021		0.0065	0.0079		0.0052	
8/20/2021	0.036					
8/27/2021				0.003 (J)		0.0039 (J)
2/8/2022	0.037					
2/9/2022		0.0067	0.0088	0.0029 (J)	0.0051	0.0031 (J)
8/30/2022	0.031	0.0066		0.003 (J)		
8/31/2022			0.0074		0.0048 (J)	0.003 (J)
2/7/2023	0.034	0.14	0.21	0.0026 (J)		
2/8/2023					0.0048 (J)	0.0029 (J)
8/15/2023	0.03	0.0059	0.0078	0.0031 (J)	0.0046 (J)	
8/16/2023						0.0037 (J)
2/20/2024	0.035	0.0062	0.004 (J)	0.0044 (J)	0.0045 (J)	0.0032 (J)
8/20/2024		0.0061	0.0072	0.0033 (J)	0.0044 (J)	0.0027 (J)
2/25/2025		0.0071	0.0083	0.0037 (J)	0.0059	0.0036 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	0.013	0.0084	0.019	0.0081		
6/6/2016						0.028
6/7/2016					0.012	
7/26/2016	0.0158	0.01	0.0179	0.0082 (J)		
7/27/2016					0.0126	0.0294
9/14/2016	0.0143	0.0085 (J)	0.0181			
9/15/2016				0.0087 (J)		
9/16/2016					0.0127	
9/19/2016						0.0247
11/2/2016	0.0148	0.0091 (J)		0.0082 (J)		
11/3/2016					0.0128	0.0248
11/4/2016			0.0165			
1/10/2017				0.0086 (J)		
1/11/2017					0.0142	0.0266
1/12/2017		0.0089 (J)	0.0199			
1/13/2017	0.0146					
3/1/2017						0.0275
3/2/2017					0.0155	
3/6/2017	0.0141					
3/7/2017		0.009 (J)	0.0196			
3/8/2017				0.0088 (J)		
4/26/2017				0.0085 (J)		0.024
5/1/2017	0.0149	0.0083 (J)				
5/2/2017			0.0202		0.0138	
6/27/2017		0.0074 (J)	0.0184			
6/28/2017						0.0237
6/29/2017	0.0154				0.0128	
6/30/2017				0.0081 (J)		
3/27/2018				<0.01		
3/28/2018					0.014	0.024
3/29/2018	0.014	<0.01	0.021			
6/6/2018		0.008 (J)				
6/7/2018	0.014		0.019			0.023
6/8/2018				0.007 (J)		
6/11/2018					0.013	
9/25/2018					0.014	0.023
9/26/2018	0.016	0.0075 (J)	0.019			
10/1/2018				0.007 (J)		
2/26/2019				0.0067 (J)		
3/4/2019	0.016	0.0077 (J)	0.019			
3/5/2019					0.015	
3/6/2019						0.024
3/29/2019				0.0066 (J)		
4/2/2019					0.016	
4/3/2019	0.017	0.0087 (J)	0.023			0.025
9/24/2019		0.0075 (J)	0.019			
9/25/2019	0.015			0.0071 (J)	0.015	
9/26/2019						0.021
2/11/2020					0.015	0.022
2/12/2020	0.012	0.0079 (J)	0.021	0.007 (J)		
3/18/2020				0.0076 (J)		
3/24/2020		0.0076 (J)	0.021		0.015	0.021

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
3/25/2020	0.016					
9/22/2020	0.013	0.0076 (J)	0.019			
9/23/2020					0.015	0.021
9/25/2020				0.0073 (J)		
2/8/2021		0.0079 (J)	0.02			
2/9/2021	0.013				0.016	0.023
2/10/2021				0.0078 (J)		
3/2/2021		0.014	0.019	0.0076		
3/3/2021	0.014				0.017	0.023
8/19/2021				0.0077		
8/26/2021	0.012	0.0092	0.019			
8/27/2021					0.016	0.02
2/9/2022					0.017	0.021
2/10/2022		0.0084	0.02	0.0088		
2/11/2022	0.013					
8/30/2022		0.0079	0.017		0.017	0.017
8/31/2022	0.013			0.0075		
2/7/2023		0.0075			0.017	0.019
2/8/2023				0.0089		
2/9/2023	0.014		0.019			
8/15/2023	0.011	0.0074	0.018	0.0079	0.016	0.02
2/20/2024	0.014	0.0078	0.019		0.017	0.02
2/23/2024				0.0096		
8/20/2024	0.012	0.0066	0.018	0.0075	0.016	0.019
2/25/2025	0.013	0.0081	0.02	0.0084	0.018	0.021

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				0.0064		
6/6/2016	0.019					
6/7/2016		0.014	0.0058			
7/25/2016				0.0071 (J)		
7/27/2016	0.0167	0.0141				
7/28/2016			0.0068 (J)			
9/16/2016	0.0168					
9/19/2016		0.0155	0.0071 (J)	0.0069 (J)		
11/1/2016				0.007 (J)		
11/2/2016		0.0157				
11/3/2016	0.0159		0.0092 (J)			
1/11/2017	0.0162					
1/13/2017		0.0158	0.0105			
1/16/2017				0.0071 (J)		
2/21/2017				0.0077 (J)		
3/1/2017	0.0195					
3/6/2017		0.0163	0.0105			
4/26/2017	0.0182	0.0177	0.011	0.0074 (J)		
6/28/2017	0.018					
6/29/2017		0.017	0.0109			
6/30/2017				0.0076 (J)		
10/11/2017					0.0092 (J)	
10/12/2017						0.0328
11/20/2017					0.0081 (J)	0.0671
1/10/2018						0.0656
1/11/2018					0.0077 (J)	
2/19/2018						0.06
2/20/2018					<0.01	
3/27/2018				<0.01		
3/28/2018	0.021					
3/29/2018		0.014	<0.01			
4/3/2018					<0.01	0.045
6/5/2018			0.011			
6/6/2018		0.015				
6/11/2018	0.019			0.007 (J)		
6/28/2018					0.0078 (J)	0.047
8/7/2018					0.0078 (J)	0.048
9/24/2018					0.0071 (J)	0.042
9/25/2018	0.019	0.015	0.011			
10/2/2018				0.0069 (J)		
2/26/2019				0.007 (J)		
3/5/2019	0.02	0.016	0.011			
4/1/2019				0.0072 (J)		
4/2/2019			0.011			
4/3/2019	0.017	0.018				
8/21/2019					0.015	0.035
9/24/2019			0.011			
9/25/2019		0.014		0.0066 (J)		
9/26/2019	0.017					
10/9/2019					0.013	0.036
2/11/2020	0.019					
2/12/2020		0.014	0.011	0.0073 (J)	0.011	0.035

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/19/2020				0.0074 (J)		
3/24/2020	0.017	0.015	0.011			0.033
3/25/2020					0.014	
9/23/2020	0.016					
9/24/2020		0.015	0.01	0.0062 (J)	0.016	0.028
2/9/2021	0.017	0.015	0.011			
2/10/2021					0.027	0.032
2/11/2021				0.0077 (J)		
3/1/2021				0.007		
3/3/2021	0.017	0.015				
3/4/2021			0.011		0.028	0.032
8/19/2021				0.0071		
8/26/2021	0.015				0.038	
8/27/2021		0.013				
9/1/2021			0.0099			
9/3/2021						0.035
2/8/2022					0.041	0.039
2/9/2022	0.014	0.014	0.011			
2/11/2022				0.0077		
8/30/2022	0.012		0.0085			
8/31/2022		0.011		0.0068	0.035	0.035
2/7/2023	0.012	0.014	0.01		0.03	
2/8/2023				0.0066		0.037
8/15/2023	0.012	0.012	0.0075		0.031	0.034
8/16/2023				0.0066		
2/20/2024		0.013	0.0065	0.0064	0.029	0.033
2/23/2024	0.013					
8/20/2024		0.012	0.0083	0.0067		
8/21/2024	0.015				0.03	0.033
2/25/2025	0.014	0.015	0.0077	0.0076	0.031	0.031

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	0.0413				
8/31/2016		0.126	0.0754		
9/1/2016				0.0414	
11/14/2016	0.0383		0.0701		
11/15/2016		0.115			
11/16/2016				0.0365	
2/24/2017	0.0351				
2/27/2017			0.0834	0.0326	
2/28/2017		0.121			
5/8/2017	0.0251	0.125		0.0332	
5/9/2017			0.0779		
7/11/2017	0.0233				
7/13/2017		0.106	0.0719	0.0365	
10/10/2017	0.0207	0.112	0.0708		
10/11/2017				0.0288	
4/2/2018	0.022				
4/3/2018			0.068		
4/4/2018		0.12		0.025	
9/19/2018	0.023	0.11	0.064	0.03	
8/20/2019	0.024	0.1	0.057		
8/21/2019				0.023	
10/8/2019	0.025	0.098			
10/9/2019			0.058	0.024	
3/17/2020	0.035	0.099	0.061	0.022	
7/6/2020				0.048	
8/27/2020	0.027	0.086			0.021
8/28/2020			0.053	0.05	
9/22/2020	0.026	0.096			0.021
9/23/2020			0.052	0.045	
10/7/2020				0.042	0.019
11/12/2020				0.042	0.019
3/1/2021	0.029	0.087	0.055		0.019
3/2/2021				0.044	
8/19/2021	0.029	0.089	0.055		
8/20/2021					0.019
8/27/2021				0.043	
2/8/2022	0.03				
2/9/2022		0.083	0.053	0.042	0.018
8/31/2022	0.029	0.073	0.052	0.036	0.017
2/8/2023	0.031	0.081			
2/9/2023			0.049		
2/10/2023				0.041	0.016
8/15/2023	0.032	0.084	0.049	0.04	0.019
2/20/2024	0.031				
2/21/2024		0.069	0.048	0.044	0.018
8/20/2024	0.031				
8/21/2024		0.069	0.054	0.048	
8/22/2024					0.018
2/25/2025	0.033				
2/26/2025		0.068	0.051	0.046	0.018

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	<0.0005					
9/12/2007	<0.0005					
3/20/2008	<0.0005					
8/27/2008	<0.0005					
3/3/2009	<0.0005					
11/18/2009	<0.0005					
3/3/2010	<0.0005					
9/8/2010	<0.0005					
3/10/2011	<0.0005					
9/8/2011	<0.0005					
3/5/2012	<0.0005					
9/10/2012	<0.0005					
2/6/2013	<0.0005					
8/12/2013	<0.0005					
2/5/2014	<0.0005					
8/5/2014	<0.0005					
2/4/2015	<0.0005					
8/3/2015	<0.0005					
2/16/2016	<0.0005					
6/1/2016		<0.0005	<0.0005			<0.0005
6/2/2016					<0.0005	
7/21/2016	<0.0005					
7/25/2016			<0.0005			<0.0005
7/26/2016		<0.0005			<0.0005	
8/31/2016	<0.0005					
9/13/2016		<0.0005	<0.0005			
9/14/2016				<0.0005		<0.0005
9/15/2016					<0.0005	
11/1/2016		<0.0005			<0.0005	<0.0005
11/4/2016			<0.0005	<0.0005		
11/28/2016	<0.0005					
12/15/2016				<0.0005		
1/11/2017		<0.0005			<0.0005	<0.0005
1/16/2017			<0.0005	<0.0005		
2/22/2017	<0.0005					
3/1/2017						<0.0005
3/2/2017		<0.0005	<0.0005		<0.0005	
3/3/2017				<0.0005		
4/26/2017					<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005			
4/28/2017				<0.0005		
5/8/2017	<0.0005					
5/26/2017				<0.0005		
6/27/2017		<0.0005	<0.0005			
6/28/2017				<0.0005	<0.0005	<0.0005
7/17/2017	<0.0005					
10/16/2017	<0.0005					
2/19/2018	<0.0005					
3/27/2018			<0.0005			
3/28/2018				<0.0005	<0.0005	<0.0005
3/29/2018		<0.0005				
8/6/2018	<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/25/2019	<0.0005					
2/27/2019		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005			
3/29/2019				<0.0005		
4/1/2019					<0.0005	<0.0005
6/12/2019	<0.0005					
8/19/2019	<0.0005					
9/24/2019		<0.0005	<0.0005	<0.0005		
9/25/2019					<0.0005	<0.0005
10/8/2019	<0.0005					
2/10/2020		<0.0005	<0.0005			
2/11/2020				<0.0005		<0.0005
2/12/2020					<0.0005	
3/17/2020	<0.0005					
3/18/2020			<0.0005			
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005
8/26/2020	<0.0005					
9/22/2020	<0.0005					
9/23/2020		<0.0005	<0.0005	<0.0005	<0.0005	5.9E-05 (J)
2/10/2021				<0.0005	<0.0005	<0.0005
2/12/2021		<0.0005	<0.0005			
3/2/2021	<0.0005					
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021		<0.0005	<0.0005		<0.0005	
8/20/2021	<0.0005					
8/27/2021				<0.0005		<0.0005
2/8/2022	<0.0005					
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/30/2022	<0.0005	<0.0005		<0.0005		
8/31/2022			<0.0005		<0.0005	<0.0005
2/7/2023	<0.0005	0.0011	0.00054	<0.0005		
2/8/2023					<0.0005	<0.0005
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/16/2023						<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/25/2025		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.0005	<0.0005	<0.0005	<0.003		
6/6/2016						<0.0005
6/7/2016					<0.0005	
7/26/2016	<0.0005	<0.0005	<0.0005	0.0002 (J)		
7/27/2016					<0.0005	<0.0005
9/14/2016	<0.0005	<0.0005	<0.0005			
9/15/2016				0.0002 (J)		
9/16/2016					<0.0005	
9/19/2016						<0.0005
11/2/2016	<0.0005	<0.0005		0.0002 (J)		
11/3/2016					<0.0005	<0.0005
11/4/2016			<0.0005			
1/10/2017				0.0002 (J)		
1/11/2017					<0.0005	<0.0005
1/12/2017		<0.0005	<0.0005			
1/13/2017	<0.0005					
3/1/2017						<0.0005
3/2/2017					8E-05 (J)	
3/6/2017	<0.0005					
3/7/2017		<0.0005	<0.0005			
3/8/2017				0.0002 (J)		
4/26/2017				0.0002 (J)		<0.0005
5/1/2017	<0.0005	<0.0005				
5/2/2017			<0.0005		<0.0005	
6/27/2017		<0.0005	<0.0005			
6/28/2017						<0.0005
6/29/2017	<0.0005				<0.0005	
6/30/2017				0.0002 (J)		
3/27/2018				<0.003		
3/28/2018					<0.0005	<0.0005
3/29/2018	<0.0005	<0.0005	<0.0005			
6/6/2018		<0.0005				
6/7/2018	<0.0005		<0.0005			<0.0005
6/11/2018					9E-05 (J)	
9/25/2018					8.9E-05 (J)	<0.0005
9/26/2018	<0.0005	<0.0005	<0.0005			
2/26/2019				0.00016 (J)		
3/4/2019	<0.0005	<0.0005	<0.0005			
3/5/2019					9.1E-05 (J)	
3/6/2019						<0.0005
3/29/2019				0.00017 (J)		
4/2/2019					9E-05 (J)	
4/3/2019	<0.0005	<0.0005	<0.0005			<0.0005
9/24/2019		<0.0005	<0.0005			
9/25/2019	<0.0005			0.00018 (J)	8.1E-05 (J)	
9/26/2019						<0.0005
2/11/2020					7.8E-05 (J)	<0.0005
2/12/2020	<0.0005	<0.0005	<0.0005	0.00019 (J)		
3/18/2020				0.00021 (J)		
3/24/2020		<0.0005	<0.0005		8E-05 (J)	<0.0005
3/25/2020	<0.0005					
9/22/2020	<0.0005	<0.0005	<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
9/23/2020					8.1E-05 (J)	<0.0005
9/25/2020				0.00018 (J)		
2/8/2021		<0.0005	<0.0005			
2/9/2021	<0.0005				9.4E-05 (J)	<0.0005
2/10/2021				0.00019 (J)		
3/2/2021		<0.0005	<0.0005	0.00018 (J)		
3/3/2021	<0.0005				9.9E-05 (J)	<0.0005
8/19/2021				0.00022 (J)		
8/26/2021	<0.0005	<0.0005	<0.0005			
8/27/2021					0.0001 (J)	<0.0005
2/9/2022					0.00011 (J)	<0.0005
2/10/2022		<0.0005	<0.0005	0.00025 (J)		
2/11/2022	<0.0005					
8/30/2022		<0.0005	<0.0005		0.0001 (J)	<0.0005
8/31/2022	<0.0005			0.0002 (J)		
2/7/2023		<0.0005			9.6E-05 (J)	<0.0005
2/8/2023				0.00022 (J)		
2/9/2023	<0.0005		<0.0005			
8/15/2023	<0.0005	<0.0005	<0.0005	0.00018 (J)	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005		0.0001 (J)	<0.0005
2/23/2024				0.00024 (J)		
8/20/2024	<0.0005	<0.0005	<0.0005	0.00021 (J)	0.0001 (J)	<0.0005
2/25/2025	<0.0005	<0.0005	<0.0005	0.0002 (J)	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.0005		
6/6/2016	<0.0005					
6/7/2016		<0.0005	<0.0005			
7/25/2016				<0.0005		
7/27/2016	<0.0005	<0.0005				
7/28/2016			<0.0005			
9/16/2016	<0.0005					
9/19/2016		<0.0005	<0.0005	<0.0005		
11/1/2016				<0.0005		
11/2/2016		<0.0005				
11/3/2016	<0.0005		<0.0005			
1/11/2017	<0.0005					
1/13/2017		<0.0005	<0.0005			
1/16/2017				<0.0005		
2/21/2017				<0.0005		
3/1/2017	<0.0005					
3/6/2017		<0.0005	<0.0005			
4/26/2017	<0.0005	<0.0005	<0.0005	<0.0005		
6/28/2017	<0.0005					
6/29/2017		<0.0005	<0.0005			
6/30/2017				<0.0005		
10/11/2017					<0.0005	
10/12/2017						0.0002 (J)
11/20/2017					<0.0005	0.0003 (J)
1/10/2018						0.0003 (J)
1/11/2018					<0.0005	
2/19/2018						<0.0025
2/20/2018					<0.0005	
3/27/2018				<0.0005		
3/28/2018	<0.0005					
3/29/2018		<0.0005	<0.0005			
4/3/2018					<0.0005	<0.0025
6/5/2018			<0.0005			
6/6/2018		8E-05 (J)				
6/11/2018	5.7E-05 (J)					
6/28/2018					<0.0005	0.00029 (J)
8/7/2018					<0.0005	0.00024 (J)
9/24/2018					<0.0005	0.00019 (J)
9/25/2018	8.2E-05 (J)	6.1E-05 (J)	<0.0005			
2/26/2019				7.2E-05 (J)		
3/5/2019	7.9E-05 (J)	0.00011 (J)	<0.0005			
4/1/2019				<0.0005		
4/2/2019			<0.0005			
4/3/2019	7.5E-05 (J)	6.4E-05 (J)				
8/21/2019					<0.0005	0.0002 (J)
9/24/2019			<0.0005			
9/25/2019		<0.0005		<0.0005		
9/26/2019	8.4E-05 (J)					
10/9/2019					<0.0005	0.0002 (J)
2/11/2020	7.6E-05 (J)					
2/12/2020		7.8E-05 (J)	<0.0005	<0.0005	<0.0005	0.00018 (J)
3/19/2020				<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/24/2020	8.9E-05 (J)	7.6E-05 (J)	<0.0005			0.00022 (J)
3/25/2020					<0.0005	
9/23/2020	8.8E-05 (J)					
9/24/2020		8.3E-05 (J)	<0.0005	<0.0005	<0.0005	0.0002 (J)
2/9/2021	9.8E-05 (J)	6.8E-05 (J)	<0.0005			
2/10/2021					5.1E-05 (J)	0.00021 (J)
2/11/2021				4.7E-05 (J)		
3/1/2021				<0.0005		
3/3/2021	0.00011 (J)	6.8E-05 (J)				
3/4/2021			<0.0005		<0.0005	0.00021 (J)
8/19/2021				<0.0005		
8/26/2021	9.3E-05 (J)				<0.0005	
8/27/2021		5.9E-05 (J)				
9/1/2021			<0.0005			
9/3/2021						0.00024 (J)
2/8/2022					<0.0005	0.00028 (J)
2/9/2022	8.9E-05 (J)	7.7E-05 (J)	<0.0005			
2/11/2022				<0.0005		
8/30/2022	8.2E-05 (J)		<0.0005			
8/31/2022		<0.0005		<0.0005	<0.0005	0.00025 (J)
2/7/2023	7.1E-05 (J)	7.4E-05 (J)	<0.0005		<0.0005	
2/8/2023				<0.0005		0.00026 (J)
8/15/2023	5.7E-05 (J)	<0.0005	<0.0005		<0.0005	<0.0025
8/16/2023				<0.0005		
2/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	0.00025 (J)
2/23/2024	<0.0005					
8/20/2024		<0.0005	<0.0005	<0.0005		
8/21/2024	<0.0005				<0.0005	0.00023 (J)
2/25/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00018 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	<0.0005				
8/31/2016		<0.0005	<0.0005		
9/1/2016				<0.0005	
11/14/2016	<0.0005		<0.0005		
11/15/2016		<0.0005			
11/16/2016				<0.0005	
2/24/2017	<0.0005				
2/27/2017			<0.0005	<0.0005	
2/28/2017		<0.0005			
5/8/2017	7E-05 (J)	<0.0005		<0.0005	
5/9/2017			<0.0005		
7/11/2017	<0.0005				
7/13/2017		<0.0005	<0.0005	<0.0005	
10/10/2017	<0.0005	<0.0005	<0.0005		
10/11/2017				<0.0005	
4/2/2018	<0.0005				
4/3/2018			<0.0005		
4/4/2018		<0.0005		<0.0005	
9/19/2018	5.7E-05 (J)	<0.0005	<0.0005	<0.0005	
8/20/2019	<0.0005	<0.0005	<0.0005		
8/21/2019				<0.0005	
7/6/2020				<0.0005	
8/27/2020	4.7E-05 (J)	<0.0005			<0.0005
8/28/2020			<0.0005	<0.0005	
9/22/2020	<0.0005	<0.0005			<0.0005
9/23/2020			<0.0005	<0.0005	
10/7/2020				<0.0005	<0.0005
11/12/2020				<0.0005	<0.0005
3/1/2021	5.5E-05 (J)	<0.0005	<0.0005		<0.0005
3/2/2021				<0.0005	
8/19/2021	<0.0005	<0.0005	<0.0005		
8/20/2021					<0.0005
8/27/2021				<0.0005	
2/8/2022	5.6E-05 (J)				
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005
8/31/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/8/2023	<0.0005	<0.0005			
2/9/2023			<0.0005		
2/10/2023				<0.0005	<0.0005
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005				
2/21/2024		<0.0005	<0.0005	<0.0005	<0.0005
8/20/2024	<0.0005				
8/21/2024		<0.0005	<0.0005	<0.0005	
8/22/2024					<0.0005
2/25/2025	<0.0005				
2/26/2025		<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.04	<0.04			<0.04
6/2/2016					<0.04	
7/25/2016			<0.04			<0.04
7/26/2016		0.0055 (J)			0.0097 (J)	
8/31/2016	0.0315 (J)					
9/13/2016		<0.04	<0.04			
9/14/2016				<0.04		<0.04
9/15/2016					0.0102 (J)	
11/1/2016		0.0086 (J)			<0.04	<0.04
11/4/2016			<0.04	<0.04		
11/28/2016	0.0095 (J)					
12/15/2016				0.0107 (J)		
1/11/2017		0.0074 (J)			<0.04	<0.04
1/16/2017			<0.04	<0.04		
2/22/2017	<0.2					
3/1/2017						0.0063 (J)
3/2/2017		0.008 (J)	<0.04		0.0084 (J)	
3/3/2017				<0.04		
4/26/2017					<0.04	<0.04
4/27/2017		0.0066 (J)	<0.04			
4/28/2017				<0.04		
5/8/2017	0.0084 (J)					
5/26/2017				<0.04		
6/27/2017		0.0087 (J)	0.006 (J)			
6/28/2017				<0.04	<0.04	<0.04
7/17/2017	0.0092 (J)					
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04		
10/4/2017					<0.04	<0.04
10/16/2017	<0.2					
2/19/2018	<0.2					
6/5/2018		0.0052 (J)				
6/6/2018			<0.04			
6/7/2018				<0.04	0.004 (J)	
6/8/2018						<0.04
8/6/2018	<0.2					
10/1/2018		0.021 (J)	0.0049 (J)	<0.04	<0.04	<0.04
2/25/2019	<0.2					
3/28/2019		0.005 (J)	<0.04			
3/29/2019				0.0065 (J)		
4/1/2019					<0.04	<0.04
6/12/2019	<0.2					
9/24/2019		0.0064 (J)	0.0055 (J)	0.0076 (J)		
9/25/2019					0.0054 (J)	<0.04
10/8/2019	<0.2					
3/17/2020	0.0051 (J)					
3/18/2020			0.0087 (J)			
3/19/2020		0.0085 (J)		0.0073 (J)	0.0073 (J)	0.0053 (J)
9/22/2020	0.0079 (J)					
9/23/2020		<0.04	<0.04	<0.04	0.012 (J)	0.0073 (J)
3/2/2021	<0.2					
3/3/2021		<0.04	<0.04	<0.04	<0.04	<0.04
8/19/2021		<0.04	<0.04		<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/20/2021	<0.2					
8/27/2021				<0.04		<0.04
2/8/2022	<0.2					
2/9/2022		<0.04	<0.04	<0.04	0.01 (J)	<0.04
8/30/2022	<0.2	<0.04		<0.04		
8/31/2022			<0.04		<0.04	<0.04
2/7/2023	<0.2	<0.04	<0.04	<0.04		
2/8/2023					<0.04	<0.04
8/15/2023	<0.2	<0.04	0.0094 (J)	<0.04	<0.04	
8/16/2023						<0.04
2/20/2024	0.017 (J)	0.015 (J)	0.014 (J)	<0.04	<0.04	<0.04
8/20/2024		<0.04	<0.04	<0.04	<0.04	<0.04
2/25/2025		<0.04	<0.04	<0.04	<0.04	<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.04	<0.04	<0.04	<0.05		
6/6/2016						<0.04
6/7/2016					0.036 (J)	
7/26/2016	0.0047 (J)	0.0052 (J)	<0.04	0.0177 (J)		
7/27/2016					0.008 (J)	<0.04
9/14/2016	<0.04	0.0071 (J)	0.01 (J)			
9/15/2016				0.0214 (J)		
9/16/2016					0.0086 (J)	
9/19/2016						<0.04
11/2/2016	<0.04	<0.04		0.0151 (J)		
11/3/2016					0.0077 (J)	<0.04
11/4/2016			<0.04			
1/10/2017				0.0198 (J)		
1/11/2017					0.0092 (J)	<0.04
1/12/2017		0.0076 (J)	<0.04			
1/13/2017	<0.04					
3/1/2017						<0.04
3/2/2017					0.0095 (J)	
3/6/2017	<0.04					
3/7/2017		0.0089 (J)	<0.04			
3/8/2017				0.0189 (J)		
4/26/2017				0.0161 (J)		<0.04
5/1/2017	<0.04	0.0061 (J)				
5/2/2017			<0.04		<0.04	
6/27/2017		0.0079 (J)	<0.04			
6/28/2017						<0.04
6/29/2017	<0.04				0.0074 (J)	
6/30/2017				0.0173 (J)		
10/3/2017		0.0094 (J)	<0.04			
10/4/2017					0.0077 (J)	
10/5/2017	<0.04			0.0173 (J)		<0.04
6/6/2018		0.0098 (J)				
6/7/2018	0.0045 (J)		<0.04			<0.04
6/8/2018				0.013 (J)		
6/11/2018					0.01 (J)	
9/25/2018					0.0096 (J)	0.0046 (J)
9/26/2018	0.005 (J)	0.01 (J)	0.0057 (J)			
10/1/2018				0.015 (J)		
3/29/2019				0.014 (J)		
4/2/2019					0.0066 (J)	
4/3/2019	0.0055 (J)	0.0076 (J)	0.0044 (J)			<0.04
9/24/2019		0.01 (J)	0.0049 (J)			
9/25/2019	<0.04			0.018 (J)	0.0081 (J)	
9/26/2019						0.0062 (J)
3/18/2020				0.02 (J)		
3/24/2020		0.011 (J)	0.0068 (J)		0.0092 (J)	0.0054 (J)
3/25/2020	0.011 (J)					
9/22/2020	<0.04	0.0079 (J)	0.0053 (J)			
9/23/2020					0.0066 (J)	0.021 (J)
9/25/2020				0.02 (J)		
3/2/2021		0.0068 (J)	0.011 (J)	0.017 (J)		
3/3/2021	0.0056 (J)				0.01 (J)	<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
8/19/2021				0.018 (J)		
8/26/2021	<0.04	0.009 (J)	<0.04			
8/27/2021					0.011 (J)	<0.04
2/9/2022					0.0098 (J)	<0.04
2/10/2022		0.011 (J)	<0.04	0.02 (J)		
2/11/2022	<0.04					
8/30/2022		0.0098 (J)	<0.04		0.013 (J)	<0.04
8/31/2022	<0.04			0.015 (J)		
2/7/2023		<0.04			0.014 (J)	<0.04
2/8/2023				0.015 (J)		
2/9/2023	<0.04		<0.04			
8/15/2023	<0.04	<0.04	<0.04	0.017 (J)	<0.04	<0.04
2/20/2024	<0.04	<0.04	<0.04		<0.04	<0.04
2/23/2024				0.037 (J)		
8/20/2024	<0.04	<0.04	<0.04	0.014 (J)	<0.04	<0.04
2/25/2025	<0.04	0.0078 (J)	<0.04	0.018 (J)	0.0093 (J)	<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.04		
6/6/2016	<0.04					
6/7/2016		<0.04	<0.04			
7/25/2016				<0.04		
7/27/2016	0.0059 (J)	<0.04				
7/28/2016			0.0096 (J)			
9/16/2016	0.0079 (J)					
9/19/2016		<0.04	<0.04	<0.04		
11/1/2016				<0.04		
11/2/2016		<0.04				
11/3/2016	0.0082 (J)		<0.04			
1/11/2017	0.0096 (J)					
1/13/2017		<0.04	<0.04			
1/16/2017				<0.04		
2/21/2017				<0.04		
3/1/2017	0.0098 (J)					
3/6/2017		<0.04	<0.04			
4/26/2017	0.0091 (J)	<0.04	<0.04	<0.04		
6/28/2017	0.0079 (J)					
6/29/2017		<0.04	<0.04			
6/30/2017				<0.04		
10/3/2017			<0.04			
10/4/2017	0.009 (J)	<0.04		<0.04		
10/11/2017					0.0135 (J)	
10/12/2017						0.0401
11/20/2017					0.0251 (J)	0.156
1/10/2018						0.15
1/11/2018					0.0255 (J)	
2/19/2018						0.15
2/20/2018					<0.04	
4/3/2018					0.033 (J)	0.12
6/5/2018			0.0092 (J)			
6/6/2018		0.0049 (J)				
6/11/2018	0.0093 (J)			0.014 (J)		
6/28/2018					0.053	0.16
8/7/2018					0.024 (J)	0.12
9/24/2018					0.028 (J)	0.099
9/25/2018	0.007 (J)	<0.04	0.0054 (J)			
10/2/2018				<0.04		
3/26/2019						0.096
3/27/2019					0.017 (J)	
4/1/2019				<0.04		
4/2/2019			0.011 (J)			
4/3/2019	0.0053 (J)	<0.04				
9/24/2019			0.018 (J)			
9/25/2019		<0.04		<0.04		
9/26/2019	0.0072 (J)					
10/9/2019					0.017 (J)	0.079
3/19/2020				0.0052 (J)		
3/24/2020	0.01 (J)	<0.04	0.016 (J)			0.088 (J)
3/25/2020					0.043 (J)	
9/23/2020	0.006 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/24/2020		0.0094 (J)	0.013 (J)	0.0075 (J)	0.037 (J)	0.087 (J)
3/1/2021				<0.04		
3/3/2021	0.0094 (J)	<0.04				
3/4/2021			0.0079 (J)		0.033 (J)	0.078
8/19/2021				<0.04		
8/26/2021	<0.04				0.095	
8/27/2021		<0.04				
9/1/2021			<0.04			
9/3/2021						0.077
2/8/2022					0.13	0.074
2/9/2022	<0.04	<0.04	<0.04			
2/11/2022				<0.04		
8/30/2022	0.014 (J)		0.012 (J)			
8/31/2022		<0.04		<0.04	0.14	0.062
2/7/2023	<0.04	<0.04	<0.04		0.13	
2/8/2023				<0.04		0.057
8/15/2023	<0.04	<0.04	0.046 (J)		0.15 (J)	0.052 (J)
8/16/2023				<0.04		
2/20/2024		<0.04	<0.04	<0.04	0.12	0.056
2/23/2024	0.018 (J)					
8/20/2024		<0.04	<0.04	<0.04		
8/21/2024	<0.04				0.13	0.061
2/25/2025	<0.04	<0.04	0.0066 (J)	<0.04	0.13	0.061

Time Series

Constituent: Boron (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	0.0166 (J)				
8/31/2016		0.541	0.308		
9/1/2016				2.12	
11/14/2016	0.0166 (J)		0.368		
11/15/2016		0.706			
11/16/2016				2.03	
2/24/2017	0.0145 (J)				
2/27/2017			0.321	1.29	
2/28/2017		0.623			
5/8/2017	0.0141 (J)	0.69		1.71	
5/9/2017			0.338		
7/11/2017	0.0131 (J)				
7/13/2017		0.649	0.34	1.62	
10/10/2017	0.0124 (J)	0.603	0.319		
10/11/2017				1.17	
4/2/2018	0.013 (J)				
4/3/2018			0.35		
4/4/2018		0.66		1.2	
9/19/2018	0.012 (J)	0.66	0.35	1.2	
3/27/2019	0.013 (J)	0.57	0.33	0.89	
10/8/2019	0.012 (J)	0.58			
10/9/2019			0.35	1.1	
3/17/2020	0.023 (J)	0.61	0.37	1.3	
7/6/2020				2	
8/27/2020					0.014 (J)
8/28/2020				1.85 (D)	
9/22/2020	0.0076 (J)	0.59			<0.04
9/23/2020			0.32	2	
10/7/2020				1.8	0.018 (J)
11/12/2020				1.8	0.012 (J)
3/1/2021	0.013 (J)	0.54	0.32		0.015 (J)
3/2/2021				1.9	
8/19/2021	0.011 (J)	0.56	0.31		
8/20/2021					<0.04
8/27/2021				1.9	
2/8/2022	0.015 (J)				
2/9/2022		0.58	0.34	2.1	0.0089 (J)
8/31/2022	0.0091 (J)	0.54	0.33	2.1	<0.04
2/8/2023	0.011 (J)	0.59			
2/9/2023			0.35		
2/10/2023				2	<0.04
8/15/2023	<0.04	0.6	0.36	2.1	0.014 (J)
2/20/2024	0.023 (J)				
2/21/2024		0.51	0.3	2.2	0.015 (J)
8/20/2024	<0.04				
8/21/2024		0.49	0.31	2.2	
8/22/2024					<0.04
2/25/2025	0.014 (J)				
2/26/2025		0.56	0.36 (J)	2.8	<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	<0.0005					
9/12/2007	<0.0005					
3/20/2008	<0.0005					
8/27/2008	<0.0005					
3/3/2009	<0.0005					
11/18/2009	<0.0005					
3/3/2010	<0.0005					
9/8/2010	<0.0005					
3/10/2011	<0.0005					
9/8/2011	<0.0005					
3/5/2012	<0.0005					
9/10/2012	<0.0005					
2/6/2013	<0.0005					
8/12/2013	<0.0005					
2/5/2014	<0.0005					
8/5/2014	<0.0005					
2/4/2015	<0.0005					
8/3/2015	<0.0005					
2/16/2016	<0.0005					
6/1/2016		<0.0005	<0.0005			<0.0005
6/2/2016					<0.0005	
7/21/2016	<0.0005					
7/25/2016			<0.0005			<0.0005
7/26/2016		<0.0005			<0.0005	
8/31/2016	<0.0005					
9/13/2016		<0.0005	<0.0005			
9/14/2016				<0.0005		<0.0005
9/15/2016					<0.0005	
11/1/2016		<0.0005			<0.0005	<0.0005
11/4/2016			<0.0005	<0.0005		
11/28/2016	<0.0005					
12/15/2016				<0.0005		
1/11/2017		0.0002 (J)			0.0001 (J)	8E-05 (J)
1/16/2017			<0.0005	<0.0005		
2/22/2017	<0.0005					
3/1/2017						<0.0005
3/2/2017		<0.0005	<0.0005		<0.0005	
3/3/2017				<0.0005		
4/26/2017					<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005			
4/28/2017				<0.0005		
5/8/2017	<0.0005					
5/26/2017				<0.0005		
6/27/2017		<0.0005	<0.0005			
6/28/2017				<0.0005	<0.0005	<0.0005
7/17/2017	<0.0005					
10/16/2017	<0.0005					
2/19/2018	<0.0005					
3/27/2018			<0.0005			
3/28/2018				<0.0005	<0.0005	<0.0005
3/29/2018		<0.0005				
8/6/2018	<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/25/2019	<0.0005					
2/27/2019		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005			
3/29/2019				<0.0005		
4/1/2019					<0.0005	<0.0005
6/12/2019	<0.0005					
8/19/2019	<0.0005					
9/24/2019		<0.0005	<0.0005	<0.0005		
9/25/2019					<0.0005	<0.0005
10/8/2019	<0.0005					
2/10/2020		<0.0005	<0.0005			
2/11/2020				<0.0005		<0.0005
2/12/2020					<0.0005	
3/17/2020	<0.0005					
3/18/2020			<0.0005			
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005
8/26/2020	<0.0005					
9/22/2020	<0.0005					
9/23/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2021				<0.0005	<0.0005	<0.0005
2/12/2021		<0.0005	<0.0005			
3/2/2021	<0.0005					
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021		<0.0005	<0.0005		<0.0005	
8/20/2021	<0.0005					
8/27/2021				<0.0005		<0.0005
2/8/2022	<0.0005					
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/30/2022	<0.0005	<0.0005		<0.0005		
8/31/2022			<0.0005		<0.0005	<0.0005
2/7/2023	0.00012 (J)	<0.0005	<0.0005	<0.0005		
2/8/2023					<0.0005	0.00013 (J)
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/16/2023						<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/25/2025		<0.0005	<0.0005	<0.0005	0.00051	0.00046 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.0005	<0.0005	<0.0005	<0.0005		
6/6/2016						<0.0005
6/7/2016					<0.0005	
7/26/2016	<0.0005	<0.0005	<0.0005	<0.0005		
7/27/2016					<0.0005	<0.0005
9/14/2016	<0.0005	<0.0005	<0.0005			
9/15/2016				<0.0005		
9/16/2016					<0.0005	
9/19/2016						<0.0005
11/2/2016	<0.0005	<0.0005		<0.0005		
11/3/2016					<0.0005	<0.0005
11/4/2016			<0.0005			
1/10/2017				<0.0005		
1/11/2017					0.0001 (J)	<0.0005
1/12/2017		<0.0005	9E-05 (J)			
1/13/2017	<0.0005					
3/1/2017						<0.0005
3/2/2017					<0.0005	
3/6/2017	<0.0005					
3/7/2017		<0.0005	<0.0005			
3/8/2017				7E-05 (J)		
4/26/2017				<0.0005		<0.0005
5/1/2017	<0.0005	<0.0005				
5/2/2017			<0.0005		<0.0005	
6/27/2017		<0.0005	<0.0005			
6/28/2017						<0.0005
6/29/2017	<0.0005				<0.0005	
6/30/2017				<0.0005		
3/27/2018				<0.0005		
3/28/2018					<0.0005	<0.0005
3/29/2018	<0.0005	<0.0005	<0.0005			
6/6/2018		<0.0005				
6/7/2018	<0.0005		<0.0005			<0.0005
6/11/2018					<0.0005	
9/25/2018					<0.0005	<0.0005
9/26/2018	<0.0005	<0.0005	<0.0005			
2/26/2019				<0.0005		
3/4/2019	<0.0005	<0.0005	<0.0005			
3/5/2019					<0.0005	
3/6/2019						<0.0005
3/29/2019				<0.0005		
4/2/2019					<0.0005	
4/3/2019	<0.0005	<0.0005	<0.0005			<0.0005
9/24/2019		<0.0005	<0.0005			
9/25/2019	<0.0005			<0.0005	<0.0005	
9/26/2019						<0.0005
2/11/2020					<0.0005	<0.0005
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005		
3/18/2020				<0.0005		
3/24/2020		<0.0005	<0.0005		<0.0005	<0.0005
3/25/2020	<0.0005					
9/22/2020	<0.0005	<0.0005	<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
9/23/2020					<0.0005	<0.0005
9/25/2020				<0.0005		
2/8/2021		<0.0005	<0.0005			
2/9/2021	<0.0005				<0.0005	<0.0005
2/10/2021				<0.0005		
3/2/2021		<0.0005	<0.0005	<0.0005		
3/3/2021	<0.0005				<0.0005	<0.0005
8/19/2021				<0.0005		
8/26/2021	<0.0005	<0.0005	<0.0005			
8/27/2021					<0.0005	<0.0005
2/9/2022					<0.0005	<0.0005
2/10/2022		<0.0005	<0.0005	<0.0005		
2/11/2022	<0.0005					
8/30/2022		<0.0005	<0.0005		<0.0005	<0.0005
8/31/2022	<0.0005			<0.0005		
2/7/2023		<0.0005			<0.0005	<0.0005
2/8/2023				<0.0005		
2/9/2023	<0.0005		<0.0005			
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/23/2024				<0.0005		
8/20/2024	0.00019 (J)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/25/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.0005		
6/6/2016	<0.0005					
6/7/2016		<0.0005	<0.0005			
7/25/2016				<0.0005		
7/27/2016	<0.0005	<0.0005				
7/28/2016			<0.0005			
9/16/2016	<0.0005					
9/19/2016		<0.0005	<0.0005	<0.0005		
11/1/2016				<0.0005		
11/2/2016		<0.0005				
11/3/2016	<0.0005		<0.0005			
1/11/2017	0.0001 (J)					
1/13/2017		<0.0005	<0.0005			
1/16/2017				<0.0005		
2/21/2017				<0.0005		
3/1/2017	<0.0005					
3/6/2017		<0.0005	<0.0005			
4/26/2017	<0.0005	<0.0005	<0.0005	<0.0005		
6/28/2017	<0.0005					
6/29/2017		<0.0005	<0.0005			
6/30/2017				<0.0005		
10/11/2017					<0.0005	
10/12/2017						<0.0005
11/20/2017					<0.0005	<0.0005
1/10/2018						<0.0005
1/11/2018					<0.0005	
2/19/2018						<0.0005
2/20/2018					<0.0005	
3/27/2018				<0.0005		
3/28/2018	<0.0005					
3/29/2018		<0.0005	<0.0005			
4/3/2018					<0.0005	<0.0005
6/5/2018			<0.0005			
6/6/2018		<0.0005				
6/11/2018	<0.0005					
6/28/2018					<0.0005	<0.0005
8/7/2018					<0.0005	<0.0005
9/24/2018					<0.0005	<0.0005
9/25/2018	<0.0005	<0.0005	9.6E-05 (J)			
2/26/2019				<0.0005		
3/5/2019	<0.0005	<0.0005	<0.0005			
4/1/2019				<0.0005		
4/2/2019			<0.0005			
4/3/2019	<0.0005	<0.0005				
8/21/2019					<0.0005	<0.0005
9/24/2019			<0.0005			
9/25/2019		<0.0005		<0.0005		
9/26/2019	<0.0005					
10/9/2019					<0.0005	<0.0005
2/11/2020	<0.0005					
2/12/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/19/2020				<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/24/2020	<0.0005	<0.0005	<0.0005			<0.0005
3/25/2020					<0.0005	
9/23/2020	<0.0005					
9/24/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/9/2021	<0.0005	<0.0005	0.00041 (J)			
2/10/2021					0.00019 (J)	<0.0005
2/11/2021				<0.0005		
3/1/2021				<0.0005		
3/3/2021	<0.0005	<0.0005				
3/4/2021			<0.0005		0.0003 (J)	<0.0005
8/19/2021				<0.0005		
8/26/2021	<0.0005				0.00049 (J)	
8/27/2021		<0.0005				
9/1/2021			<0.0005			
9/3/2021						<0.0005
2/8/2022					0.00063	<0.0005
2/9/2022	<0.0005	<0.0005	<0.0005			
2/11/2022				<0.0005		
8/30/2022	<0.0005		<0.0005			
8/31/2022		<0.0005		<0.0005	0.00044 (J)	<0.0005
2/7/2023	<0.0005	<0.0005	0.00012 (J)		0.00014 (J)	
2/8/2023				<0.0005		<0.0005
8/15/2023	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/16/2023				<0.0005		
2/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024	<0.0005					
8/20/2024		<0.0005	<0.0005	<0.0005		
8/21/2024	<0.0005				<0.0005	<0.0005
2/25/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	0.0001 (J)				
8/31/2016		<0.0005	<0.0005		
9/1/2016				<0.0005	
11/14/2016	0.0001 (J)		<0.0005		
11/15/2016		<0.0005			
11/16/2016				<0.0005	
2/24/2017	9E-05 (J)				
2/27/2017			<0.0005	<0.0005	
2/28/2017		<0.0005			
5/8/2017	0.0001 (J)	<0.0005		0.0001 (J)	
5/9/2017			<0.0005		
7/11/2017	<0.0005				
7/13/2017		<0.0005	<0.0005	<0.0005	
10/10/2017	<0.0005	<0.0005	<0.0005		
10/11/2017				<0.0005	
4/2/2018	<0.0005				
4/3/2018			<0.0005		
4/4/2018		<0.0005		<0.0005	
9/19/2018	<0.0005	<0.0005	<0.0005	<0.0005	
8/20/2019	<0.0005	<0.0005	<0.0005		
8/21/2019				0.00012 (J)	
10/8/2019	<0.0005	<0.0005			
10/9/2019			<0.0005	<0.0005	
3/17/2020	<0.0005	<0.0005	<0.0005	0.00012 (J)	
7/6/2020				<0.0005	
8/27/2020	<0.0005	<0.0005			<0.0005
8/28/2020			<0.0005	<0.0005	
11/12/2020				<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005		
8/20/2021					<0.0005
8/27/2021				<0.0005	
2/8/2022	<0.0005				
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005
8/31/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/8/2023	0.00032 (J)	<0.0005			
2/9/2023			<0.0005		
2/10/2023				<0.0005	<0.0005
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005				
2/21/2024		<0.0005	<0.0005	<0.0005	<0.0005
8/20/2024	<0.0005				
8/21/2024		<0.0005	<0.0005	<0.0005	
8/22/2024					<0.0005
2/25/2025	<0.0005				
2/26/2025		<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		12	2.5			21
6/2/2016					28	
7/25/2016			2.16			20.3
7/26/2016		11			24.5	
8/31/2016	9.31					
9/13/2016		11.8	2.21			
9/14/2016				23.5		19.7
9/15/2016					27	
11/1/2016		11			25.6	18.4
11/4/2016			2.67	23.7		
11/28/2016	9.47					
12/15/2016				23.1		
1/11/2017		11.2			27.5	20.3
1/16/2017			2.45	23.3		
2/22/2017	10.4					
3/1/2017						18.6
3/2/2017		11	2.57		27.5	
3/3/2017				25.1		
4/26/2017					30.4	25.6
4/27/2017		11.1	2.38			
4/28/2017				30.7		
5/8/2017	14.2					
5/26/2017				26.2		
6/27/2017		13.8	2.36			
6/28/2017				26.1	29.8	23.9
7/17/2017	14.1					
10/3/2017		14	2.21	26.7		
10/4/2017					29.7	22.1
10/16/2017	13.6					
2/19/2018	<25					
6/5/2018		15.2 (J)				
6/6/2018			2.3			
6/7/2018				25	29.1	
6/8/2018						21.9 (J)
8/6/2018	11.4 (J)					
10/1/2018		15.1	1.8	25	26.9	19.7
2/25/2019	12.7 (J)					
3/28/2019		13.3 (J)	2.2			
3/29/2019				23.5 (J)		
4/1/2019					30.1	20.4 (J)
6/12/2019	18.9					
9/24/2019		15.8	2.3	26.4		
9/25/2019					29.5	22.4
10/8/2019	28.3					
3/17/2020	24.3					
3/18/2020			2.1			
3/19/2020		15		27.4	31.5	21.9
9/22/2020	31					
9/23/2020		14.1	1.8	26.3	28.6	23.6
3/2/2021	34.2					
3/3/2021		14.1	1.8	25.6	29.8	20.6
8/19/2021		14.2	2		28.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/20/2021	26.5					
8/27/2021				22.6		24.7
2/8/2022	25.6					
2/9/2022		14.9	2.1	23.4	30.3	23.7
8/30/2022	23.5	14.9		25.4		
8/31/2022			1.9		28.7	23.5
2/7/2023	22.3	15	2.2	25.6		
2/8/2023					28.9	23.3
8/15/2023	20.3	13.5	1.8	23.2	27.4	
8/16/2023						24.9
2/20/2024	22.8	15.3	2.2	28.2	30.7	23.7
8/20/2024		17.7	1.9	30.4	30	23.4
2/25/2025		16.4	1.8	27.3	27.9	21.2

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	8.8	33	2.4	1.3		
6/6/2016						6.2
6/7/2016					2.2	
7/26/2016	7.69	32.3	2.12	1.24		
7/27/2016					2	4.73
9/14/2016	8.49	31	2.18			
9/15/2016				1.17		
9/16/2016					1.97	
9/19/2016						4.76
11/2/2016	7.83	30.9		1.23		
11/3/2016					1.99	5.25
11/4/2016			2.17 (J)			
1/10/2017				1.24		
1/11/2017					2.28	4.74
1/12/2017		35.7	2.37			
1/13/2017	8.08					
3/1/2017						5.37
3/2/2017					2.15	
3/6/2017	8.64					
3/7/2017		32.7	2.34			
3/8/2017				1.21		
4/26/2017				1.14		4.28
5/1/2017	13.4	37				
5/2/2017			2.17		1.95	
6/27/2017		36.5	2.13			
6/28/2017						4.95
6/29/2017	8.81				2.02	
6/30/2017				1.24		
10/3/2017		30.9	2.15			
10/4/2017					2.03	
10/5/2017	9.29			1.11		5.28
6/6/2018		26.2				
6/7/2018	8.2		2.3			4.8
6/8/2018				1.1		
6/11/2018					2.1	
9/25/2018					2.1	4.6
9/26/2018	9.5 (J)	25.8	2.3			
10/1/2018				0.99		
3/29/2019				1.1		
4/2/2019					2.5	
4/3/2019	8.4	24.7 (J)	2.8			5.3
9/24/2019		25.8	2.5			
9/25/2019	9.5			1.1	2.6	
9/26/2019						5.075 (D)
10/10/2019	9.9	24.2	2.4		2.4	
3/18/2020				1.1		
3/24/2020		26.1	2.5		2.7	5.3
3/25/2020	10.5					
9/22/2020	9.6	27.2	2.6			
9/23/2020					2.6	5.2
9/25/2020				1.3		
3/2/2021		1.6	2.6	1.2		

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
3/3/2021	7.7				2.5	5.2
8/19/2021				1.2		
8/26/2021	7.6	25.2	2.5			
8/27/2021					2.7	5.1
2/9/2022					2.8	5.1
2/10/2022		24.8	2.5	1.3		
2/11/2022	7.5					
8/30/2022		24.8	2.5		3	5.7
8/31/2022	8.9			1.3		
2/7/2023		26.6			2.9	5.5
2/8/2023				1.5		
2/9/2023	9.6		2.8			
8/15/2023	7.8	25	2.6	1.3	2.9	5.1
2/20/2024	9.9	27.2	2.7		3.2	5.6
2/23/2024				1.6		
8/20/2024	9.1	29.1	3.2	1.3	3.5	5.9
2/25/2025	8.1	25.9	2.8	1.3	3	5.3

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				1.3		
6/6/2016	1.4					
6/7/2016		2.3	3.7			
7/25/2016				1.17		
7/27/2016	1.19	2.08				
7/28/2016			3.15			
9/16/2016	1.5					
9/19/2016		1.97	3.17	1.05		
11/1/2016				1.14		
11/2/2016		2.13				
11/3/2016	1.31		3.4			
1/11/2017	1.25					
1/13/2017		2.45	4.98			
1/16/2017				1.23		
2/21/2017				1.25		
3/1/2017	1.26					
3/6/2017		2.48	6.28			
4/26/2017	1.05	2.3	6.65	1.03		
6/28/2017	1.06					
6/29/2017		2.54	6.04			
6/30/2017				1.13		
10/3/2017			8.28			
10/4/2017	1.1	2.25		1.09		
10/11/2017					2.74	
10/12/2017						2.9
11/20/2017					1.81	10.4
1/10/2018						10.2
1/11/2018					1.54	
2/19/2018						<25
2/20/2018					1.7	
4/3/2018					1.4	6.3
6/5/2018			9.1			
6/6/2018		2.3				
6/11/2018	1.4			1.1		
6/28/2018					1.4	6.7
8/7/2018					1.2	6.3
9/24/2018					1.1	5.7
9/25/2018	1	2.3	10.4 (J)			
10/2/2018				1.1		
3/26/2019						5.6
3/27/2019					1.5	
4/1/2019				1.3		
4/2/2019			8.8			
4/3/2019	1.2	2.9				
9/24/2019			7.7			
9/25/2019		2.4		1.1		
9/26/2019	1.085 (D)					
10/9/2019					2.4 (D)	5.05 (D)
10/10/2019		2.6	5.6			
3/19/2020				1.2		
3/24/2020	1	2.6	6			4.8
3/25/2020					2.7	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/23/2020	0.91 (J)					
9/24/2020		2.6	7.8	1.1	3.7	4.4
3/1/2021				1.2		
3/3/2021	0.96 (J)	2.4				
3/4/2021			8.7		8.2	4.6
8/19/2021				1.2		
8/26/2021	0.98 (J)				14.1	
8/27/2021		2.4				
9/1/2021			9.5			
9/3/2021						5.6
2/8/2022					15.2	6
2/9/2022	0.87 (J)	2.3	9.8			
2/11/2022				1.5		
8/30/2022	0.77 (J)		7.3			
8/31/2022		2.4		1.3	16.3	6.2
2/7/2023	0.79 (J)	2.4	7.5		16.1	
2/8/2023				1.3		5.9
8/15/2023	0.8 (J)	2.2	6.1		17.2	5.3
8/16/2023				1.4		
2/20/2024		2.5	7	1.3	16.9	5.6
2/23/2024	0.84 (J)					
8/20/2024		2.8	6.9	1.4		
8/21/2024	0.96 (J)				19.7	6
2/25/2025	0.88 (J)	2.6	6	1.4	17.3	4.8

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	20.9				
8/31/2016		27.3	46.7		
9/1/2016				96.8	
11/14/2016	18.6		50.6		
11/15/2016		27.8			
11/16/2016				107	
2/24/2017	16.1				
2/27/2017			49.4	104	
2/28/2017		26.4			
5/8/2017	14.6	29.9		103	
5/9/2017			56		
7/11/2017	14.3				
7/13/2017		30.2	54.8	83.7	
10/10/2017	12.1	27.2	52.8		
10/11/2017				69	
4/2/2018	<25				
4/3/2018			50.6		
4/4/2018		30.1		51.9	
9/19/2018	11.1 (J)	29.2	50.5	51.9	
3/27/2019	10.8 (J)	27.9	48.8	54.2	
10/8/2019	9.7	28.1			
10/9/2019			48.95 (D)	64.2	
3/17/2020	14.8	31.9	54.8	70.4	
7/6/2020				105	
8/27/2020					52.3
8/28/2020				102	
9/22/2020	10.1	30.4			53.5
9/23/2020			50	104	
10/7/2020				105	53.8
11/12/2020				110	53.6
3/1/2021	10.3	31.9	50.7		50.6
3/2/2021				110	
8/19/2021	9.6	31.7	50.4		
8/20/2021					47.9
8/27/2021				108	
2/8/2022	9.4				
2/9/2022		30.8	49.3	109	42.2
8/31/2022	9.6	30.8	51.8	110	41.8
2/8/2023	9.2	30.9			
2/9/2023			46.2		
2/10/2023				105	36.7
8/15/2023	9.6	30	46.3	111	34.6
2/20/2024	10.3				
2/21/2024		31.6	54.5	130	35
8/20/2024	10				
8/21/2024		32.8	58.3	124	
8/22/2024					37.6
2/25/2025	9.9				
2/26/2025		30.1	55.4	132	32.3

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		1.3	1.6			1.3
6/2/2016					1.4	
7/25/2016			1.4			1.3
7/26/2016		1.2			1.6	
8/31/2016	4					
9/13/2016		1.1	1.3			
9/14/2016				1.1		1.3
9/15/2016					1.5	
11/1/2016		1.3			1.7	1.4
11/4/2016			1.6	1.4		
11/28/2016	4.2					
12/15/2016				2.9		
1/11/2017		1.1			1.2	1.1
1/16/2017			1.4	0.98		
2/22/2017	3.7					
3/1/2017						1.1
3/2/2017		1	1.3		1.2	
3/3/2017				1.1		
4/26/2017					1.2	1.1
4/27/2017		1	1.3			
4/28/2017				0.91		
5/8/2017	4.2					
5/26/2017				0.93		
6/27/2017		1.1	1.4			
6/28/2017				1	1.3	1.2
7/17/2017	3.8					
10/3/2017		1.1	1.7	1.2		
10/4/2017					1.5	1.2
10/16/2017	4.2					
2/19/2018	4.3					
6/5/2018		1.1				
6/6/2018			1.4			
6/7/2018				1	1.2	
6/8/2018						1.2
8/6/2018	3.8					
10/1/2018		1.1	1.4	1.1	1.5	1.2
2/25/2019	4.1					
3/28/2019		1.4	1.5			
3/29/2019				1.2		
4/1/2019					1.2	1.1
6/12/2019	4.7					
9/24/2019		1.1	1.3	0.95 (J)		
9/25/2019					1.1	1.1
10/8/2019	5.1					
3/17/2020	4.8					
3/18/2020			1.4			
3/19/2020		1.1		0.97 (J)	1.2	1.1
9/22/2020	4.2					
9/23/2020		0.99 (J)	1.2	0.88 (J)	1.1	1
3/2/2021	4.1					
3/3/2021		0.96 (J)	1.2	0.86 (J)	1.1	0.99 (J)
8/19/2021		1.1	1.3		1.1	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/20/2021	5.2					
8/27/2021				0.99 (J)		1.1
2/8/2022	5.7					
2/9/2022		1	1.3	1 (J)	1.1	1.1
8/30/2022	6.3	1.3		1.2		
8/31/2022			1.5		1.3	1.3
2/7/2023	6.1	1.3	1.5	1.1		
2/8/2023					1.2	1.1
8/15/2023	5.6	1.1	1.4	0.93 (J)	1.1	
8/16/2023						1.1
2/20/2024	6.1	1	1.2	0.96 (J)	1.1	1.1
8/20/2024		1	1.3	0.91 (J)	1.1	1
2/25/2025		0.9 (J)	1.1	0.77 (J)	0.94 (J)	0.9 (J)

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	3.7	7.2	4.3	4.1		
6/6/2016						6.8
6/7/2016					4.5	
7/26/2016	3.6	6.6	4.4	4		
7/27/2016					4.5	6.7
9/14/2016	3.4	6.6	3.8			
9/15/2016				4.2		
9/16/2016					4.5	
9/19/2016						7
11/2/2016	4.5	7.6		4.9		
11/3/2016					5.4	7.5
11/4/2016			4.8			
1/10/2017				4.1		
1/11/2017					4.7	6.5
1/12/2017		6.8	3.8			
1/13/2017	4.2					
3/1/2017						6.9
3/2/2017					4.8	
3/6/2017	3.6					
3/7/2017		6.8	4.5			
3/8/2017				4.2		
4/26/2017				4.1		7
5/1/2017	4.3	7.2				
5/2/2017			4.6		4.6	
6/27/2017		7	4.3			
6/28/2017						7
6/29/2017	4.2				4.5	
6/30/2017				3.7		
10/3/2017		6.5	4.2			
10/4/2017					4.7	
10/5/2017	4.7			3.8		7
6/6/2018		4.7				
6/7/2018	4.4		4.5			6.8
6/8/2018				3.4		
6/11/2018					4.9	
9/25/2018					5.6	7.9
9/26/2018	4.8	4.8	5.1			
10/1/2018				3.8		
3/29/2019				4.2		
4/2/2019					4.8	
4/3/2019	4.3	4	4.2			6.9
9/24/2019		3.7	4.5			
9/25/2019	4.5			4.8	5.7	
9/26/2019						7
10/10/2019		4.3	1.6		5.8	
3/18/2020				5.2		
3/24/2020		3.5	4.3		5	7
3/25/2020	3.9					
9/22/2020	4.5	3.6	4.2			
9/23/2020					6.6	7.2
9/25/2020				5.3		
3/2/2021		3.2	4.3	4.9		

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
3/3/2021	4.1 (J)				7.1	7
8/19/2021				5		
8/26/2021	4.4	3.4	4.3			
8/27/2021					8.5	7.4
2/9/2022					10.9	7.5
2/10/2022		3.2	4.4	4.7		
2/11/2022	4.1					
8/30/2022		3.5	4.4		12	7.9
8/31/2022	4.4			4.6		
2/7/2023		3.3			11.4	7.4
2/8/2023				4.9		
2/9/2023	4.5		5			
8/15/2023	4.4	3.1	4.1	4.1	11.6	7.3
2/20/2024	4.6	3.2	4.8		12.2	7.6
2/23/2024				4.8		
8/20/2024	5.2	3.4	4.8	4.5	12.7	7.8
2/25/2025	4.5	2.8	4.4	4.1	11.4	7

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				1.9		
6/6/2016	6.4					
6/7/2016		1.9	2.8			
7/25/2016				1.7		
7/27/2016	6.2	1.9				
7/28/2016			2.6			
9/16/2016	6.1					
9/19/2016		1.9	2.4	1.6		
11/1/2016				1.8		
11/2/2016		2.6				
11/3/2016	7.4		2.9			
1/11/2017	6.1					
1/13/2017		2.3	2.5			
1/16/2017				1.7		
2/21/2017				1.7		
3/1/2017	6					
3/6/2017		1.9	2.1			
4/26/2017	6.5	2	2.1	1.7		
6/28/2017	6.4					
6/29/2017		2.6	2.8			
6/30/2017				1.8		
10/3/2017			2.2			
10/4/2017	6.8	2.6		1.8		
10/11/2017					2.4	
10/12/2017						3.8
11/20/2017					1.8	4.4
1/10/2018						4.6
1/11/2018					1.6	
2/19/2018						4.6
2/20/2018					2	
4/3/2018					3.3	5.9
6/5/2018			1.7			
6/6/2018		2.7				
6/11/2018	6.8			2		
6/28/2018					2.1	5
8/7/2018					1.2	4.3
9/24/2018					1.3	4.9
9/25/2018	7.8	3.6	2.2			
10/2/2018				1.8		
3/26/2019						4.4
3/27/2019					1.4	
4/1/2019				1.7		
4/2/2019			2.5			
4/3/2019	6.3	3.1				
9/24/2019			3.1			
9/25/2019		2.8		1.6		
9/26/2019	7.1					
10/9/2019					2.05 (D)	5.05 (D)
10/10/2019		3.7	3.3			
3/19/2020				1.8		
3/24/2020	6.8	2.7	2.8			4.7
3/25/2020					1.9	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/23/2020	7.2					
9/24/2020		2.7	2	1.5	2.7	5
3/1/2021				1.6		
3/3/2021	7.2	2.7				
3/4/2021			1.8		4.9	4.9
8/19/2021				1.6		
8/26/2021	7.3				7.2	
8/27/2021		2.8				
9/1/2021			1.8			
9/3/2021						5.5
2/8/2022					7.4	6.2
2/9/2022	7	2.8	1.7			
2/11/2022				2.1		
8/30/2022	7		2.4			
8/31/2022		2.9		1.8	6.7	6.3
2/7/2023	6.4	2.9	2.4		5.6	
2/8/2023				1.6		6.9
8/15/2023	6.7	2.8	2.3		4.5	5.6
8/16/2023				1.5		
2/20/2024		2.9	2.3	1.4	4.6	5.7
2/23/2024	6.6					
8/20/2024		3	2.3	1.4		
8/21/2024	7.4				4	5.4
2/25/2025	6.5	2.6	2	1.3	3.5	4.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	5.2				
8/31/2016		13	5.8		
9/1/2016				37	
11/14/2016	6.4		5.8		
11/15/2016		14			
11/16/2016				37	
2/24/2017	5.5				
2/27/2017			5	33	
2/28/2017		12			
5/8/2017	5.8	13		33	
5/9/2017			4.6		
7/11/2017	5.8				
7/13/2017		13	4.7	32	
10/10/2017	5.9	14	4.5		
10/11/2017				29	
4/2/2018	4.8				
4/3/2018			4.6		
4/4/2018		13.4		26.6	
9/19/2018	4	14.2	4.7	26.5	
3/27/2019	4.3	14	4.6	20.9	
10/8/2019	4.4	14.8			
10/9/2019			4.95 (D)	25	
3/17/2020	4.1	14	4.6	24.8	
7/6/2020				25.8	
8/27/2020					3.9
8/28/2020				25.9	
9/22/2020	4.2	14.4			4.1
9/23/2020			4.9	28.1	
10/7/2020				28.2	4
11/12/2020				26.7	3.8
3/1/2021	3.7	14	5		3.7
3/2/2021				27.4	
8/19/2021	3.5	13	4.1		
8/20/2021					3.1
8/27/2021				29.3	
2/8/2022	3.2				
2/9/2022		13.5	4.9	28.2	3.2
8/31/2022	3.5	14.5	5.4	29.9	3.4
2/8/2023	3.5	14.9			
2/9/2023			5.9		
2/10/2023				33.5	3.3
8/15/2023	3.5	13.4	5.6	32.2	3
2/20/2024	3.2				
2/21/2024		13.2	6	36.3	2.9
8/20/2024	3.6				
8/21/2024		13.3	6.5	39.6	
8/22/2024					3
2/25/2025	3				
2/26/2025		11.7	6.4	35.2	2.6

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	0.0029					
9/12/2007	0.0084					
3/20/2008	0.0027					
8/27/2008	0.0026					
3/3/2009	0.0022					
11/18/2009	0.0036					
3/3/2010	<0.005					
9/8/2010	<0.005					
3/10/2011	<0.005					
9/8/2011	<0.005					
3/5/2012	<0.005					
9/10/2012	<0.005					
2/6/2013	<0.005					
8/12/2013	<0.005					
2/5/2014	0.0059					
8/5/2014	<0.005					
2/4/2015	<0.005					
8/3/2015	0.0011 (J)					
2/16/2016	<0.005					
6/1/2016		0.0035	<0.005			<0.005
6/2/2016					0.0013 (J)	
7/21/2016	<0.005					
7/25/2016			0.0007 (J)			0.0007 (J)
7/26/2016		0.0009 (J)			0.0006 (J)	
8/31/2016	<0.005					
9/13/2016		<0.005	<0.005			
9/14/2016				<0.005		<0.005
9/15/2016					<0.005	
11/1/2016		<0.005			<0.005	<0.005
11/4/2016			<0.005	<0.005		
11/28/2016	<0.005					
12/15/2016				<0.005		
1/11/2017		<0.005			<0.005	<0.005
1/16/2017			<0.005	<0.005		
2/22/2017	<0.005					
3/1/2017						0.0004 (J)
3/2/2017		0.0009 (J)	0.0004 (J)		0.0006 (J)	
3/3/2017				0.0005 (J)		
4/26/2017					<0.005	<0.005
4/27/2017		<0.005	<0.005			
4/28/2017				0.0004 (J)		
5/8/2017	<0.005					
5/26/2017				<0.005		
6/27/2017		<0.005	<0.005			
6/28/2017				<0.005	<0.005	<0.005
7/17/2017	<0.005					
10/16/2017	<0.005					
2/19/2018	<0.005					
3/27/2018			<0.005			
3/28/2018				<0.005	<0.005	<0.005
3/29/2018		<0.005				
8/6/2018	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/25/2019	<0.005					
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005
3/28/2019		<0.005	0.0021 (J)			
3/29/2019				<0.005		
4/1/2019					<0.005	<0.005
6/12/2019	<0.005					
8/19/2019	<0.005					
9/24/2019		0.00072 (J)	0.0028 (J)	<0.005		
9/25/2019					0.0014 (J)	0.0019 (J)
10/8/2019	<0.005					
2/10/2020		0.00042 (J)	<0.005			
2/11/2020				<0.005		<0.005
2/12/2020					<0.005	
3/17/2020	<0.005					
3/18/2020			0.00044 (J)			
3/19/2020		0.00084 (J)		0.00048 (J)	<0.005	<0.005
8/26/2020	<0.005					
9/22/2020	<0.005					
9/23/2020		0.00062 (J)	0.00058 (J)	<0.005	<0.005	<0.005
2/10/2021				<0.005	<0.005	<0.005
2/12/2021		<0.005	<0.005			
3/2/2021	<0.005					
3/3/2021		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005	<0.005		<0.005	
8/20/2021	<0.005					
8/27/2021				<0.005		<0.005
2/8/2022	<0.005					
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2022	<0.005	0.0011 (J)		<0.005		
8/31/2022			<0.005		<0.005	<0.005
2/7/2023	<0.005	<0.005	0.0013 (J)	<0.005		
2/8/2023					<0.005	<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
8/16/2023						<0.005
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005
2/25/2025		<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.005	<0.005	<0.005	<0.005		
6/6/2016						0.0012 (J)
6/7/2016					<0.005	
7/26/2016	<0.005	0.0006 (J)	0.0006 (J)	<0.005		
7/27/2016					0.0008 (J)	0.0007 (J)
9/14/2016	<0.005	<0.005	<0.005			
9/15/2016				<0.005		
9/16/2016					<0.005	
9/19/2016						<0.005
11/2/2016	<0.005	<0.005		<0.005		
11/3/2016					<0.005	<0.005
11/4/2016			<0.005			
1/10/2017				<0.005		
1/11/2017					<0.005	<0.005
1/12/2017		<0.005	<0.005			
1/13/2017	<0.005					
3/1/2017						0.0012 (J)
3/2/2017					0.001 (J)	
3/6/2017	<0.005					
3/7/2017		0.0012 (J)	0.0006 (J)			
3/8/2017				0.0005 (J)		
4/26/2017				<0.005		0.0005 (J)
5/1/2017	<0.005	0.0004 (J)				
5/2/2017			<0.005		0.0007 (J)	
6/27/2017		<0.005	<0.005			
6/28/2017						0.0006 (J)
6/29/2017	<0.005				0.0006 (J)	
6/30/2017				<0.005		
3/27/2018				<0.005		
3/28/2018					<0.005	<0.005
3/29/2018	<0.005	<0.005	<0.005			
2/26/2019				<0.005		
3/4/2019	<0.005	<0.005	<0.005			
3/5/2019					<0.005	
3/6/2019						<0.005
3/29/2019				<0.005		
9/25/2019				<0.005		
2/11/2020					0.00087 (J)	0.001 (J)
2/12/2020	<0.005	<0.005	0.00043 (J)	<0.005		
3/18/2020				<0.005		
3/24/2020		<0.005	0.0014 (J)		0.00087 (J)	0.00095 (J)
3/25/2020	0.00058 (J)					
9/22/2020	<0.005	0.0011 (J)	<0.005			
9/23/2020					0.00098 (J)	0.00092 (J)
9/25/2020				<0.005		
2/8/2021		<0.005	<0.005			
2/9/2021	<0.005				0.00098 (J)	0.00083 (J)
2/10/2021				<0.005		
3/2/2021		<0.005	<0.005	<0.005		
3/3/2021	0.0013				0.00082 (J)	0.00087 (J)
8/19/2021				<0.005		
8/26/2021	<0.005	<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
8/27/2021					<0.005	<0.005
2/9/2022					<0.005	<0.005
2/10/2022		<0.005	<0.005	<0.005		
2/11/2022	<0.005					
8/30/2022		<0.005	<0.005		<0.005	<0.005
8/31/2022	<0.005			<0.005		
2/7/2023		<0.005			<0.005	<0.005
2/8/2023				<0.005		
2/9/2023	<0.005		0.0012 (J)			
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005	<0.005		<0.005	<0.005
2/23/2024				<0.005		
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.005		
6/6/2016	<0.005					
6/7/2016		<0.005	<0.005			
7/25/2016				<0.005		
7/27/2016	0.0006 (J)	0.0005 (J)				
7/28/2016			<0.005			
9/16/2016	<0.005					
9/19/2016		<0.005	<0.005	<0.005		
11/1/2016				<0.005		
11/2/2016		<0.005				
11/3/2016	<0.005		<0.005			
1/11/2017	<0.005					
1/13/2017		<0.005	<0.005			
1/16/2017				<0.005		
2/21/2017				<0.005		
3/1/2017	<0.005					
3/6/2017		0.0005 (J)	0.0004 (J)			
4/26/2017	0.0003 (J)	0.0007 (J)	<0.005	0.0016 (J)		
6/28/2017	<0.005					
6/29/2017		0.0005 (J)	<0.005			
6/30/2017				<0.005		
10/11/2017					<0.005	
10/12/2017						<0.005
11/20/2017					<0.005	<0.005
1/10/2018						<0.005
1/11/2018					<0.005	
2/19/2018						<0.005
2/20/2018					<0.005	
3/27/2018				<0.005		
3/28/2018	<0.005					
3/29/2018		<0.005	<0.005			
4/3/2018					<0.005	<0.005
6/28/2018					<0.005	<0.005
8/7/2018					<0.005	<0.005
9/24/2018					<0.005	<0.005
2/26/2019				<0.005		
3/5/2019	<0.005	<0.005	<0.005			
4/1/2019				<0.005		
8/21/2019					<0.005	0.00053 (J)
9/25/2019				<0.005		
10/9/2019					<0.005	0.0012 (J)
2/11/2020	0.00088 (J)					
2/12/2020		0.00045 (J)	<0.005	<0.005	<0.005	0.00065 (J)
3/19/2020				<0.005		
3/24/2020	0.0011 (J)	0.00077 (J)	<0.005			0.00055 (J)
3/25/2020					<0.005	
9/23/2020	0.0012 (J)					
9/24/2020		0.00076 (J)	<0.005	<0.005	<0.005	<0.005
2/9/2021	0.0013 (J)	0.00056 (J)	<0.005			
2/10/2021					<0.005	<0.005
2/11/2021				<0.005		
3/1/2021				<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	0.001 (J)	<0.005				
3/4/2021			<0.005		<0.005	<0.005
8/19/2021				<0.005		
8/26/2021	<0.005				<0.005	
8/27/2021		<0.005				
9/1/2021			<0.005			
9/3/2021						<0.005
2/8/2022					<0.005	<0.005
2/9/2022	0.0014 (J)	<0.005	<0.005			
2/11/2022				<0.005		
8/30/2022	0.0015 (J)		<0.005			
8/31/2022		<0.005		<0.005	<0.005	<0.005
2/7/2023	0.0016 (J)	<0.005	<0.005		<0.005	
2/8/2023				0.0021 (J)		<0.005
8/15/2023	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
8/16/2023				<0.005		
2/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024	<0.005					
8/20/2024		<0.005	<0.005	<0.005		
8/21/2024	<0.005				<0.005	<0.005
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	<0.005				
8/31/2016		<0.005	<0.005		
9/1/2016				<0.005	
11/14/2016	0.0093 (J)		0.0061 (J)		
11/15/2016		<0.005			
11/16/2016				<0.005	
2/24/2017	<0.005				
2/27/2017			<0.005	<0.005	
2/28/2017		<0.005			
5/8/2017	<0.005	<0.005		<0.005	
5/9/2017			<0.005		
7/11/2017	<0.005				
7/13/2017		<0.005	0.0006 (J)	<0.005	
10/10/2017	<0.005	<0.005	<0.005		
10/11/2017				<0.005	
4/2/2018	<0.005				
4/3/2018			<0.005		
4/4/2018		<0.005		<0.005	
9/19/2018	<0.005	<0.005	<0.005	<0.005	
8/20/2019	<0.005	<0.005	<0.005		
8/21/2019				<0.005	
7/6/2020				<0.005	
8/27/2020	<0.005	<0.005			<0.005
8/28/2020			<0.005	<0.005	
9/22/2020	<0.005	<0.005			0.00073 (J)
9/23/2020			0.00058 (J)	<0.005	
10/7/2020				<0.005	0.00086 (J)
11/12/2020				<0.005	<0.005
3/1/2021	<0.005	<0.005	<0.005		0.00094 (J)
3/2/2021				<0.005	
8/19/2021	<0.005	<0.005	<0.005		
8/20/2021					<0.005
8/27/2021				<0.005	
2/8/2022	<0.005				
2/9/2022		<0.005	<0.005	<0.005	0.0012 (J)
8/31/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023	<0.005	<0.005			
2/9/2023			<0.005		
2/10/2023				<0.005	0.0021 (J)
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005				
2/21/2024		0.0021 (J)	<0.005	<0.005	<0.005
8/20/2024	<0.005				
8/21/2024		<0.005	<0.005	<0.005	
8/22/2024					<0.005
2/25/2025	<0.005				
2/26/2025		<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	0.0067					
9/12/2007	<0.01					
3/20/2008	<0.01					
8/27/2008	<0.01					
3/3/2009	<0.01					
11/18/2009	<0.01					
3/3/2010	0.0027					
9/8/2010	0.007					
3/10/2011	<0.01					
9/8/2011	<0.01					
3/5/2012	0.0032					
9/10/2012	<0.01					
2/6/2013	<0.01					
8/12/2013	0.0045					
2/5/2014	<0.01					
8/5/2014	0.0027					
2/4/2015	0.0016					
8/3/2015	0.002					
2/16/2016	0.0027					
6/1/2016		<0.005	0.00082 (J)			<0.005
6/2/2016					<0.005	
7/21/2016	0.0011 (J)					
7/25/2016			0.0008 (J)			<0.005
7/26/2016		<0.005			<0.005	
8/31/2016	0.0053 (J)					
9/13/2016		<0.005	0.0009 (J)			
9/14/2016				<0.005		<0.005
9/15/2016					<0.005	
11/1/2016		<0.005			<0.005	<0.005
11/4/2016			0.0025 (J)	<0.005		
11/28/2016	0.0036 (J)					
12/15/2016				<0.005		
1/11/2017		<0.005			<0.005	<0.005
1/16/2017			0.0027 (J)	<0.005		
2/22/2017	0.0049 (J)					
3/1/2017						<0.005
3/2/2017		<0.005	0.0022 (J)		<0.005	
3/3/2017				<0.005		
4/26/2017					<0.005	<0.005
4/27/2017		<0.005	0.0018 (J)			
4/28/2017				<0.005		
5/8/2017	0.0059 (J)					
5/26/2017				<0.005		
6/27/2017		<0.005	0.0023 (J)			
6/28/2017				<0.005	<0.005	<0.005
7/17/2017	0.0046 (J)					
10/16/2017	0.0034 (J)					
2/19/2018	<0.01					
3/27/2018			<0.01			
3/28/2018				<0.005	<0.005	<0.005
3/29/2018		<0.005				
6/5/2018		<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/6/2018			<0.01			
6/7/2018				<0.005	<0.005	
6/8/2018						<0.005
8/6/2018	0.003 (J)					
10/1/2018		<0.005	0.00059 (J)	<0.005	<0.005	<0.005
2/25/2019	0.001 (J)					
2/27/2019		<0.005	0.00064 (J)	<0.005	<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)			
3/29/2019				<0.005		
4/1/2019					<0.005	<0.005
6/12/2019	0.003 (J)					
8/19/2019	0.0035 (J)					
9/24/2019		<0.005	0.0013 (J)	<0.005		
9/25/2019					<0.005	<0.005
10/8/2019	0.0039 (J)					
2/10/2020		<0.005	0.0016 (J)			
2/11/2020				<0.005		<0.005
2/12/2020					<0.005	
3/17/2020	0.003 (J)					
3/18/2020			0.00087 (J)			
3/19/2020		<0.005		<0.005	<0.005	<0.005
8/26/2020	0.2 (O)					
9/22/2020	0.16 (O)					
9/23/2020		<0.005	0.0013 (J)	<0.005	<0.005	<0.005
2/10/2021				<0.005	<0.005	<0.005
2/12/2021		0.00086 (J)	0.0028 (J)			
3/2/2021	0.21 (O)					
3/3/2021		<0.005	0.003 (J)	<0.005	<0.005	<0.005
8/19/2021		0.00055 (J)	0.0017 (J)		<0.005	
8/20/2021	0.074 (O)					
8/27/2021				<0.005		<0.005
2/8/2022	0.072 (O)					
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005	<0.005	<0.005
8/30/2022	0.075 (O)	<0.005		<0.005		
8/31/2022			0.00085 (J)		<0.005	<0.005
2/7/2023	0.034	0.00097 (J)	0.0048 (J)	<0.005		
2/8/2023					<0.005	<0.005
8/15/2023	0.031	<0.005	0.00072 (J)	<0.005	<0.005	
8/16/2023						<0.005
2/20/2024	0.023	0.00055 (J)	0.0018 (J)	<0.005	<0.005	<0.005
8/20/2024		<0.005	0.00033 (J)	<0.005	<0.005	<0.005
2/25/2025		<0.005	0.0014 (J)	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	0.00082 (J)	<0.005	<0.005	<0.005		
6/6/2016						<0.005
6/7/2016					<0.005	
7/26/2016	0.0012 (J)	<0.005	<0.005	<0.005		
7/27/2016					<0.005	<0.005
9/14/2016	0.0006 (J)	<0.005	<0.005			
9/15/2016				<0.005		
9/16/2016					<0.005	
9/19/2016						<0.005
11/2/2016	<0.005	<0.005		<0.005		
11/3/2016					<0.005	<0.005
11/4/2016			<0.005			
1/10/2017				<0.005		
1/11/2017					<0.005	<0.005
1/12/2017		<0.005	<0.005			
1/13/2017	0.0029 (J)					
3/1/2017						<0.005
3/2/2017					<0.005	
3/6/2017	0.0006 (J)					
3/7/2017		<0.005	<0.005			
3/8/2017				<0.005		
4/26/2017				<0.005		<0.005
5/1/2017	<0.005	<0.005				
5/2/2017			<0.005		<0.005	
6/27/2017		<0.005	<0.005			
6/28/2017						<0.005
6/29/2017	0.0005 (J)				<0.005	
6/30/2017				<0.005		
3/27/2018				<0.005		
3/28/2018					<0.005	<0.005
3/29/2018	<0.005	<0.005	<0.005			
6/6/2018		<0.005				
6/7/2018	0.00058 (J)		<0.005			<0.005
6/8/2018				<0.005		
6/11/2018					<0.005	
9/25/2018					<0.005	<0.005
9/26/2018	<0.005	<0.005	<0.005			
10/1/2018				<0.005		
2/26/2019				<0.005		
3/4/2019	<0.005	<0.005	<0.005			
3/5/2019					<0.005	
3/6/2019						<0.005
3/29/2019				<0.005		
4/2/2019					<0.005	
4/3/2019	0.00083 (J)	<0.005	<0.005			<0.005
9/24/2019		<0.005	<0.005			
9/25/2019	<0.005			<0.005	<0.005	
9/26/2019						<0.005
2/11/2020					<0.005	<0.005
2/12/2020	<0.005	0.00037 (J)	<0.005	<0.005		
3/18/2020				<0.005		
3/24/2020		0.00035 (J)	<0.005		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
3/25/2020	0.00056 (J)					
9/22/2020	<0.005	<0.005	<0.005			
9/23/2020					<0.005	<0.005
9/25/2020				<0.005		
2/8/2021		<0.005	<0.005			
2/9/2021	<0.005				<0.005	<0.005
2/10/2021				<0.005		
3/2/2021		<0.005	<0.005	<0.005		
3/3/2021	<0.005				<0.005	<0.005
8/19/2021				<0.005		
8/26/2021	0.00042 (J)	<0.005	<0.005			
8/27/2021					<0.005	<0.005
2/9/2022					<0.005	<0.005
2/10/2022		<0.005	<0.005	<0.005		
2/11/2022	<0.005					
8/30/2022		<0.005	<0.005		<0.005	<0.005
8/31/2022	<0.005			<0.005		
2/7/2023		<0.005			<0.005	<0.005
2/8/2023				<0.005		
2/9/2023	<0.005		<0.005			
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005	<0.005		<0.005	<0.005
2/23/2024				<0.005		
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				0.035		
6/6/2016	0.00061 (J)					
6/7/2016		<0.005	0.0056			
7/25/2016				0.0312		
7/27/2016	0.0004 (J)	<0.005				
7/28/2016			0.0032 (J)			
9/16/2016	0.0008 (J)					
9/19/2016		<0.005	0.0047 (J)	0.0275		
11/1/2016				0.0255		
11/2/2016		<0.005				
11/3/2016	<0.005		0.013			
1/11/2017	<0.005					
1/13/2017		<0.005	0.011			
1/16/2017				0.0245		
2/21/2017				0.0272		
3/1/2017	<0.005					
3/6/2017		<0.005	0.011			
4/26/2017	<0.005	<0.005	0.009 (J)	0.0244		
6/28/2017	<0.005					
6/29/2017		<0.005	0.0093 (J)			
6/30/2017				0.0233		
10/11/2017					<0.005	
10/12/2017						<0.005
11/20/2017					<0.005	<0.005
1/10/2018						<0.005
1/11/2018					<0.005	
2/19/2018						<0.005
2/20/2018					<0.005	
3/27/2018				0.023		
3/28/2018	<0.005					
3/29/2018		<0.005	<0.01			
4/3/2018					<0.005	<0.005
6/5/2018			0.0041 (J)			
6/6/2018		<0.005				
6/11/2018	<0.005			0.023		
6/28/2018					<0.005	<0.005
8/7/2018					<0.005	<0.005
9/24/2018					<0.005	<0.005
9/25/2018	<0.005	<0.005	0.0044 (J)			
10/2/2018				0.022		
2/26/2019				0.021		
3/5/2019	<0.005	<0.005	0.0039 (J)			
4/1/2019				0.022		
4/2/2019			0.0039 (J)			
4/3/2019	<0.005	<0.005				
8/21/2019					0.00034 (J)	<0.005
9/24/2019			0.0032 (J)			
9/25/2019		<0.005		0.016		
9/26/2019	<0.005					
10/9/2019					<0.005	<0.005
2/11/2020	<0.005					
2/12/2020		<0.005	0.0081	0.014	0.00034 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/19/2020				0.014		
3/24/2020	<0.005	<0.005	0.0061			<0.005
3/25/2020					0.00034 (J)	
9/23/2020	<0.005					
9/24/2020		<0.005	0.0079	0.0064	0.00053 (J)	<0.005
2/9/2021	<0.005	<0.005	0.009			
2/10/2021					0.00098 (J)	<0.005
2/11/2021				0.0078		
3/1/2021				0.0061		
3/3/2021	<0.005	<0.005				
3/4/2021			0.0065		0.00071 (J)	<0.005
8/19/2021				0.0052		
8/26/2021	<0.005				0.0011 (J)	
8/27/2021		<0.005				
9/1/2021			0.0068			
9/3/2021						<0.005
2/8/2022					0.0012 (J)	<0.005
2/9/2022	<0.005	<0.005	0.0078			
2/11/2022				0.0038 (J)		
8/30/2022	<0.005		0.0066			
8/31/2022		<0.005		0.004 (J)	0.00085 (J)	<0.005
2/7/2023	<0.005	<0.005	0.014		0.00066 (J)	
2/8/2023				0.0031 (J)		<0.005
8/15/2023	<0.005	<0.005	0.011		0.00072 (J)	<0.005
8/16/2023				0.0028 (J)		
2/20/2024		<0.005	0.02	0.0029 (J)	0.00073 (J)	<0.005
2/23/2024	<0.005					
8/20/2024		<0.005	0.02	0.0023 (J)		
8/21/2024	<0.005				0.00048 (J)	<0.005
2/25/2025	<0.005	<0.005	0.041 (o)	0.0023 (J)	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	0.0073 (J)				
8/31/2016		0.0119	0.0009 (J)		
9/1/2016				0.0171	
11/14/2016	0.0115		0.0009 (J)		
11/15/2016		0.0033 (J)			
11/16/2016				0.0145	
2/24/2017	0.0106				
2/27/2017			0.001 (J)	0.0161	
2/28/2017		0.0017 (J)			
5/8/2017	0.0099 (J)	0.0018 (J)		0.0367	
5/9/2017			0.0008 (J)		
7/11/2017	0.0096 (J)				
7/13/2017		0.0022 (J)	0.0009 (J)	0.0265	
10/10/2017	0.0036 (J)	0.0017 (J)	0.0008 (J)		
10/11/2017				0.0556	
4/2/2018	<0.005				
4/3/2018			<0.005		
4/4/2018		<0.01		0.025	
9/19/2018	0.0036 (J)	0.0025 (J)	0.00081 (J)	0.042	
8/20/2019	0.00092 (J)	0.002 (J)	0.00071 (J)		
8/21/2019				0.027	
10/8/2019	0.0014 (J)	0.0017 (J)			
10/9/2019			0.0007 (J)	0.024	
3/17/2020	0.0017 (J)	0.004 (J)	0.00081 (J)	0.022	
7/6/2020				0.0041 (J)	
8/27/2020	0.0011 (J)	0.003 (J)			0.0022 (J)
8/28/2020			0.00055 (J)	0.0038 (J)	
9/22/2020	0.00097 (J)	0.0065			0.0019 (J)
9/23/2020			0.00053 (J)	0.0015 (J)	
10/7/2020				0.0014 (J)	0.0019 (J)
11/12/2020				0.001 (J)	0.0015 (J)
3/1/2021	0.001 (J)	0.0033 (J)	0.00062 (J)		0.0013 (J)
3/2/2021				0.00096 (J)	
8/19/2021	0.00099 (J)	0.0014 (J)	0.00048 (J)		
8/20/2021					0.0013 (J)
8/27/2021				0.00056 (J)	
2/8/2022	0.0013 (J)				
2/9/2022		0.0027 (J)	0.00051 (J)	0.0006 (J)	0.0015 (J)
8/31/2022	0.00096 (J)	0.00099 (J)	0.00069 (J)	0.0017 (J)	0.00096 (J)
2/8/2023	0.0011 (J)	0.0014 (J)			
2/9/2023			0.00077 (J)		
2/10/2023				0.0016 (J)	0.00055 (J)
8/15/2023	0.00072 (J)	0.00084 (J)	0.00053 (J)	0.0012 (J)	0.0017 (J)
2/20/2024	0.0011 (J)				
2/21/2024		0.00093 (J)	0.00056 (J)	0.0011 (J)	0.00042 (J)
8/20/2024	0.00034 (J)				
8/21/2024		0.001 (J)	0.00053 (J)	0.00078 (J)	
8/22/2024					0.00054 (J)
2/25/2025	<0.005				
2/26/2025		0.0013 (J)	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.321 (U)	0.42			0.896
6/2/2016					2.51	
7/25/2016			1.83			2.28
7/26/2016		0.707			3.82	
8/31/2016	1.2					
9/13/2016		1.22	0.841			
9/14/2016				0.98		0.821
9/15/2016					4.24	
11/1/2016		0.805			3.92	0.585
11/4/2016			0.166	0.277		
11/28/2016	0.264 (U)					
12/15/2016				0.071 (U)		
1/11/2017		0.705			2.52	1.22
1/16/2017			0	0.44		
2/22/2017	1.06 (U)					
3/1/2017						0.877
3/2/2017		0.251	0.504		3.13	
3/3/2017				0.448		
4/26/2017					2.35	0.672
4/27/2017		1.08	0.593			
4/28/2017				0.548		
5/8/2017	0.187 (U)					
5/26/2017				0		
6/27/2017		1.02 (U)	0.657 (U)			
6/28/2017				0.608 (U)	2.6	1.07 (U)
7/17/2017	1.42					
10/16/2017	1.17					
2/19/2018	1.58					
3/27/2018			0.39			
3/28/2018				0.412	3	0.65
3/29/2018		0.503				
6/5/2018		0.771 (U)				
6/6/2018			2.8			
6/7/2018				0.73 (U)	2.79	
6/8/2018						1.89
8/6/2018	0.196 (U)					
10/1/2018		0.783 (U)	1.06 (U)	0.756 (U)	3.14	1.58
2/27/2019		1.21 (U)	0.637 (U)	0.635 (U)	3.79	3.67
3/28/2019		1.13 (U)	0.125 (U)			
3/29/2019				0.224 (U)		
4/1/2019					4.33	2.28
8/19/2019	1.39					
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)		
9/25/2019					4.2	1.6
10/8/2019	1.32 (U)					
2/10/2020		1.41	1.25 (U)			
2/11/2020				0.817 (U)	3.87	1.85
3/17/2020	1 (U)					
3/18/2020			0.458 (U)			
3/19/2020		1.1		0.715 (U)	3.96	2.2
8/26/2020	1.75					
9/22/2020	0.688 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)	4.14	1.14 (U)
2/10/2021				1.04 (U)	3.65	2.46
2/12/2021		0.366 (U)	0.458 (U)			
3/2/2021	0.948 (U)					
3/3/2021		0.492 (U)	0.105 (U)	0.459 (U)	3.58	2.03
8/19/2021		1.17 (U)	0.0732 (U)		3.53	
8/20/2021	0.528 (U)					
8/27/2021				0.409 (U)		1.34
2/8/2022	0.462 (U)					
2/9/2022		1.19	0.422 (U)	0.894 (U)	3.28	1.91
8/30/2022	1.52	0.827		0.699 (U)		
8/31/2022			0.49 (U)		2.12	1.33
2/7/2023	1	0.92 (U)	0.661 (U)	0.536 (U)		
2/8/2023					2.74	1.18
8/15/2023	0.833 (U)	0.935 (U)	0.726 (U)	0.611 (U)	2.79	
8/16/2023						1.87
2/20/2024	0.978 (U)	0.274 (U)	0.798 (U)	0.784 (U)	2.56	1.09 (U)
8/20/2024		0.46 (U)	0.65 (U)	0.0912 (U)	3.09	0.921 (U)
2/25/2025		1.24	0.978 (U)	0.123 (U)	3.04	1.46

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	0.721	5.11	0.614	0.329 (U)		
6/6/2016						0.0804 (U)
6/7/2016					0.158 (U)	
7/26/2016	1.26	6.92	1.47	1.51		
7/27/2016					0.0354	0.206
9/14/2016	0.901	3.96	1.27			
9/15/2016				1.04		
9/16/2016					1.04	
9/19/2016						1.58
11/2/2016	1.09	4.53		0.496		
11/3/2016					0.314	0.342
11/4/2016			0.434			
1/10/2017				0.376 (U)		
1/11/2017					0.34 (U)	0.365 (U)
1/12/2017		4.43	0.202			
1/13/2017	1.19					
3/1/2017						0.395
3/2/2017					0.746	
3/6/2017	0.669					
3/7/2017		4.8	0.0674			
3/8/2017				0.0745		
4/26/2017				0.282		0.507
5/1/2017	0.803	4.16				
5/2/2017			0.444		0.111	
6/27/2017		2.8	0.77 (U)			
6/28/2017						0.892
6/29/2017	1.35				0.576 (U)	
6/30/2017				0.994		
3/27/2018				0.189		
3/28/2018					0.438	0.92
3/29/2018	0.703	3.42	0.648			
6/6/2018		3.99				
6/7/2018	0.628 (U)		0.745 (U)			0.668 (U)
6/8/2018				0.218 (U)		
6/11/2018					0.901 (U)	
9/25/2018					0.68 (U)	0.141 (U)
9/26/2018	0.756 (U)	2.73	0.377 (U)			
10/1/2018				1.24		
2/26/2019				0.202 (U)		
3/4/2019	1.21 (U)	4.43	1 (U)			
3/5/2019					0.272 (U)	
3/6/2019						0.714 (U)
3/29/2019				0 (U)		
4/2/2019					0.847 (U)	
4/3/2019	1.07 (U)	4.79	0.43 (U)			0.385 (U)
9/24/2019		4.06	0.699 (U)			
9/25/2019	1.86			0.707 (U)	0.412 (U)	
9/26/2019						0.386 (U)
2/11/2020					0.461 (U)	1.48
2/12/2020	1.25	4.02	0.913 (U)	1.07 (U)		
3/18/2020				0.207 (U)		
3/24/2020		3.52	1.37		0.534 (U)	0.632 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
3/25/2020	0.766 (U)					
9/22/2020	0.795 (U)	2.98	0.428 (U)			
9/23/2020					0.466 (U)	0.887 (U)
9/25/2020				0.603 (U)		
2/8/2021		2.89	0.613 (U)			
2/9/2021	0.626 (U)				0.529 (U)	0.314 (U)
2/10/2021				0.353 (U)		
3/2/2021		1.67	0.579 (U)	0.71 (U)		
3/3/2021	1				0.59 (U)	0.565 (U)
8/19/2021				0.786 (U)		
8/26/2021	1.17 (U)	4.68	0.798 (U)			
8/27/2021					0.9 (U)	0.761 (U)
2/9/2022					0.133 (U)	0.571 (U)
2/10/2022		3.33	0.375 (U)	0 (U)		
2/11/2022	0.996					
8/30/2022		5.34	0.72 (U)		1.08	1.01
8/31/2022	0.962			0.421 (U)		
2/7/2023		3.99			0.367 (U)	0.485 (U)
2/8/2023				0.83 (U)		
2/9/2023	1.12		0.0815 (U)			
8/15/2023	1.14	3.44	0.846 (U)	0.652 (U)	0.0388 (U)	0.655 (U)
2/20/2024	1.1 (U)	2.8	0.63 (U)		0.0387 (U)	0.068 (U)
2/23/2024				0.736 (U)		
8/20/2024	1.18	3.02	0.695 (U)	0.667 (U)	0.554 (U)	0.223 (U)
2/25/2025	1.54	3.65	0.767 (U)	0.376 (U)	0.0768 (U)	0.391 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				0.0652 (U)		
6/6/2016	0.301 (U)					
6/7/2016		0.0191 (U)	0.347			
7/25/2016				3.01		
7/27/2016	0.196	0.541				
7/28/2016			0.815			
9/16/2016	0.915					
9/19/2016		0.826	0.862	0.871 (U)		
11/1/2016				0.307		
11/2/2016		0.791				
11/3/2016	0.928		0.797			
1/11/2017	0.502 (U)					
1/13/2017		0.296	0.72			
1/16/2017				0.284		
2/21/2017				0.503		
3/1/2017	0.202					
3/6/2017		0.518	0.518			
4/26/2017	0.264	0.282	1.13	0.204		
6/28/2017	0.636 (U)					
6/29/2017		1.12	0.841 (U)			
6/30/2017				0.738 (U)		
10/11/2017					0.586 (U)	
10/12/2017						1.49
11/20/2017					0.816 (U)	0.918 (U)
1/10/2018						1.05
1/11/2018					0.841 (U)	
2/19/2018						2.05
2/20/2018					1.58	
3/27/2018				0.31		
3/28/2018	0.56					
3/29/2018		1.73	1.91			
4/3/2018					0.385 (U)	0.68 (U)
6/5/2018			1.39			
6/6/2018		0.694 (U)				
6/11/2018	0.649 (U)			0.608 (U)		
6/28/2018					0.283 (U)	1.28
8/7/2018					0.332 (U)	1.16
9/24/2018					0.767 (U)	0.965
9/25/2018	0.574 (U)	0.772 (U)	1.62			
10/2/2018				0.97 (U)		
2/26/2019				0.524 (U)		
3/5/2019	0.474 (U)	0.84 (U)	0.985 (U)			
4/1/2019				1.02 (U)		
4/2/2019			1.42			
4/3/2019	0.429 (U)	1.01				
8/21/2019					1.01 (U)	1.24
9/24/2019			1.35			
9/25/2019		1.18 (U)		1.02 (U)		
9/26/2019	0.222 (U)					
10/9/2019					1.02	0.866 (U)
2/11/2020	0.597 (U)					
2/12/2020		1.11 (U)	1.61	0.301 (U)	0.45 (U)	1.83

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/19/2020				1		
3/24/2020	0.262 (U)	1.88	1.24 (U)			1.27 (U)
3/25/2020					0.377 (U)	
9/23/2020	0.43 (U)					
9/24/2020		0.611 (U)	1.8	0.684 (U)	0.568 (U)	0.634 (U)
2/9/2021	0.259 (U)	0.284 (U)	1.24			
2/10/2021					0.518 (U)	0.783 (U)
2/11/2021				0.678 (U)		
3/1/2021				0.412 (U)		
3/3/2021	0.352 (U)	0.133 (U)				
3/4/2021			1.2		0.636 (U)	0.818 (U)
8/19/2021				0.234 (U)		
8/26/2021	0.686 (U)				0.674 (U)	
8/27/2021		0.779 (U)				
9/1/2021			1.86			
9/3/2021						0.971 (U)
2/8/2022					0.834	0.534 (U)
2/9/2022	0.0618 (U)	0.504 (U)	1.94			
2/10/2022				0.268 (U)		
8/30/2022	0.611 (U)		1.27			
8/31/2022		0.184 (U)		0.506 (U)	0.937	0.513 (U)
2/7/2023	0.656 (U)	0.794 (U)	1.53		1.41	
2/8/2023				0.417 (U)		1.56
8/15/2023	0.347 (U)	0.165 (U)	1.68		0.608 (U)	0.325 (U)
8/16/2023				0.895 (U)		
2/20/2024		0.165 (U)	1.19	0.375 (U)	0.701 (U)	0.437 (U)
2/23/2024	0.318 (U)					
8/20/2024		0.371 (U)	0.545 (U)	0.748 (U)		
8/21/2024	0.684 (U)				1.52	0.265 (U)
2/25/2025	0.359 (U)	1.2 (U)	1.14 (U)	0.385 (U)	0.895 (U)	0.685 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	1.09				
8/31/2016		2.15	1.65		
9/1/2016				2.28	
11/14/2016			0.981		
11/15/2016		0.676			
11/16/2016				0.639	
11/28/2016				0.996	
12/15/2016	1				
2/24/2017	0.504				
2/27/2017			0.528	0.617	
2/28/2017		0.241			
5/8/2017	0.455	0.508		0.949	
5/9/2017			1.4		
7/11/2017	0.471 (U)				
7/13/2017		0.77 (U)	0.611 (U)	1.41	
10/10/2017	0.649 (U)	1.43	1.47		
10/11/2017				0.856 (U)	
4/2/2018	0.512				
4/3/2018			1.53		
4/4/2018		0.325		0.974	
9/19/2018	0.789 (U)	0.386 (U)	0.839 (U)	1.15 (U)	
8/20/2019	2.44	1.71	2.23		
8/21/2019				1.31	
10/8/2019	1.72	0.769 (U)			
10/9/2019			1.61	0.892 (U)	
3/17/2020	1.22 (U)	1.37	1.44	1.74	
7/6/2020				2.27	
8/27/2020	1.26 (U)	0.0859 (U)			0.852 (U)
8/28/2020			0.983 (U)	2.34	
9/22/2020	1.06 (U)	0.327 (U)			0.268 (U)
9/23/2020			0.746 (U)	0.575 (U)	
10/7/2020				1.81	0.819 (U)
11/12/2020				0.106 (U)	1.41 (U)
3/1/2021	1.2	0.0694 (U)	1.28		0.846 (U)
3/2/2021				1.64	
8/19/2021	1.07 (U)	0.261 (U)	1.38		
8/20/2021					0.496 (U)
8/27/2021				1.83	
2/8/2022	0.4 (U)				
2/9/2022		0.332 (U)	1.11	1.74	0.926
8/31/2022	0.714 (U)	0.145 (U)	0.598 (U)	1.51	0.322 (U)
2/8/2023	0.375 (U)	0.193 (U)			
2/9/2023			1.29		
2/10/2023				1.92	0.786 (U)
8/15/2023	0.947 (U)	1.15	1.34	1.92	0.319 (U)
2/20/2024	0.939 (U)				
2/21/2024		0.345 (U)	0.857 (U)	2	0.164 (U)
8/20/2024	0.873 (U)				
8/21/2024		0.411 (U)	1.29	1.87	
8/22/2024					0.862 (U)
2/25/2025	1.1 (U)				
2/26/2025		0.971 (U)	1.49	3.69	0.841 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.12 (J)	<0.1			0.15 (J)
6/2/2016					0.62	
7/25/2016			0.06 (J)			0.14 (J)
7/26/2016		0.08 (J)			0.49	
8/31/2016	0.14 (J)					
9/13/2016		0.11 (J)	<0.1			
9/14/2016				0.08 (J)		0.18 (J)
9/15/2016					0.54	
11/1/2016		0.1 (J)			0.68	0.15 (J)
11/4/2016			0.07 (J)	0.12 (J)		
11/28/2016	0.12 (J)					
12/15/2016				0.06 (J)		
1/11/2017		0.05 (J)			0.49	0.09 (J)
1/16/2017			0.03 (J)	0.1 (J)		
2/22/2017	0.09 (J)					
3/1/2017						0.2 (J)
3/2/2017		0.09 (J)	0.06 (J)		0.48	
3/3/2017				0.11 (J)		
4/26/2017					0.48	0.08 (J)
4/27/2017		0.04 (J)	0.01 (J)			
4/28/2017				0.06 (J)		
5/8/2017	0.05 (J)					
5/26/2017				0.09 (J)		
6/27/2017		0.06 (J)	0.06 (J)			
6/28/2017				0.11 (J)	0.47	0.12 (J)
7/17/2017	0.14 (J)					
10/3/2017		0.07 (J)	<0.1	0.12 (J)		
10/4/2017					0.47	0.1 (J)
10/16/2017	0.12 (J)					
2/19/2018	<0.3					
3/27/2018			<0.1			
3/28/2018				0.31	0.56	<0.1
3/29/2018		<0.3				
6/5/2018		0.055 (J)				
6/6/2018			<0.1			
6/7/2018				0.11 (J)	0.48	
6/8/2018						0.2 (J)
8/6/2018	0.087 (J)					
10/1/2018		<0.3	<0.1	<0.3	0.44	<0.1
2/25/2019	0.14 (J)					
2/27/2019		0.052 (J)	<0.1	0.12 (J)	0.53	0.13 (J)
3/28/2019		0.036 (J)	<0.1			
3/29/2019				0.13 (J)		
4/1/2019					0.45	0.1 (J)
6/12/2019	0.12 (J)					
8/19/2019	<0.3					
9/24/2019		0.063 (J)	<0.1	0.081 (J)		
9/25/2019					0.46	0.1 (J)
10/8/2019	0.052 (J)					
2/10/2020		0.061 (J)	<0.1			
2/11/2020				0.075 (J)		0.094 (J)
2/12/2020					0.4	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
3/17/2020	0.053 (J)					
3/18/2020			<0.1			
3/19/2020		0.064 (J)		0.093 (J)	0.51	0.11 (J)
8/26/2020	0.068 (J)					
9/22/2020	0.058 (J)					
9/23/2020		0.058 (J)	<0.1	0.08 (J)	0.47	0.098 (J)
2/10/2021				0.094 (J)	0.43	<0.1
2/12/2021		0.068 (J)	<0.1			
3/2/2021	0.073 (J)					
3/3/2021		0.078 (J)	<0.1	0.085 (J)	0.44	0.1
8/19/2021		0.074 (J)	<0.1		0.47	
8/20/2021	0.06 (J)					
8/27/2021				0.12		0.12
2/8/2022	0.064 (J)					
2/9/2022		0.057 (J)	<0.1	0.094 (J)	0.43	0.097 (J)
8/30/2022	0.086 (J)	0.093 (J)		0.12		
8/31/2022			0.065 (J)		0.42	0.13
2/7/2023	0.095 (J)	0.093 (J)	0.071 (J)	0.12		
2/8/2023					0.56	0.16
8/15/2023	0.065 (J)	0.057 (J)	<0.1	0.081 (J)	0.42	
8/16/2023						0.11
2/20/2024	0.094 (J)	0.086 (J)	<0.1	0.1	0.45	0.12
8/20/2024		0.066 (J)	<0.1	0.085 (J)	0.45	0.12
2/25/2025		0.094 (J)	0.06 (J)	0.12	0.45	0.14

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.1	0.11 (J)	<0.1	<0.1		
6/6/2016						<0.1
6/7/2016					<0.1	
7/26/2016	<0.1	0.05 (J)	<0.1	0.02 (J)		
7/27/2016					<0.1	<0.1
9/14/2016	<0.1	0.04 (J)	<0.1			
9/15/2016				<0.1		
9/16/2016					<0.1	
9/19/2016						<0.1
11/2/2016	0.07 (J)	0.2 (J)		0.04 (J)		
11/3/2016					<0.1	<0.1
11/4/2016			<0.1			
1/10/2017				<0.1		
1/11/2017					<0.1	<0.1
1/12/2017		0.04 (J)	<0.1			
1/13/2017	<0.1					
3/1/2017						0.03 (J)
3/2/2017					0.04 (J)	
3/6/2017	0.05 (J)					
3/7/2017		0.09 (J)	0.03 (J)			
3/8/2017				0.04 (J)		
4/26/2017				<0.1		<0.1
5/1/2017	<0.1	0.04 (J)				
5/2/2017			<0.1		<0.1	
6/27/2017		0.09 (J)	<0.1			
6/28/2017						<0.1
6/29/2017	0.02 (J)				0.02 (J)	
6/30/2017				<0.1		
10/3/2017		0.05 (J)	<0.1			
10/4/2017					<0.1	
10/5/2017	<0.1			<0.1		<0.1
3/27/2018				<0.1		
3/28/2018					<0.1	<0.1
3/29/2018	<0.1	<0.1	<0.1			
6/6/2018		0.15 (J)				
6/7/2018	<0.1		<0.1			<0.1
6/8/2018				<0.1		
6/11/2018					<0.1	
9/25/2018					<0.1	<0.1
9/26/2018	<0.1	<0.1	<0.1			
10/1/2018				<0.1		
2/26/2019				<0.1		
3/4/2019	<0.1	0.19 (J)	<0.1			
3/5/2019					<0.1	
3/6/2019						<0.1
3/29/2019				<0.1		
4/2/2019					<0.1	
4/3/2019	<0.1	0.047 (J)	<0.1			<0.1
9/24/2019		0.05 (J)	<0.1			
9/25/2019	<0.1			<0.1	<0.1	
9/26/2019						<0.1
10/10/2019		0.16 (J)	1.1		<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
2/11/2020					<0.1	<0.1
2/12/2020	<0.1	<0.1	<0.1	<0.1		
3/18/2020				<0.1		
3/24/2020		<0.1	<0.1		<0.1	<0.1
3/25/2020	<0.1					
9/22/2020	<0.1	0.056 (J)	<0.1			
9/23/2020					<0.1	<0.1
9/25/2020				<0.1		
2/8/2021		0.055 (J)	<0.1			
2/9/2021	<0.1				<0.1	<0.1
2/10/2021				<0.1		
3/2/2021		<0.1	<0.1	<0.1		
3/3/2021	<0.1				<0.1	<0.1
8/19/2021				<0.1		
8/26/2021	<0.1	0.061 (J)	<0.1			
8/27/2021					<0.1	<0.1
2/9/2022					<0.1	<0.1
2/10/2022		0.055 (J)	<0.1	<0.1		
2/11/2022	<0.1					
8/30/2022		0.085 (J)	<0.1		<0.1	<0.1
8/31/2022	0.061 (J)			0.053 (J)		
2/7/2023		0.082 (J)			<0.1	<0.1
2/8/2023				0.059 (J)		
2/9/2023	0.067 (J)		<0.1			
8/15/2023	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2/20/2024	0.059 (J)	0.076 (J)	<0.1		<0.1	<0.1
2/23/2024				<0.1		
8/20/2024	<0.1	0.058 (J)	<0.1	<0.1	<0.1	<0.1
2/25/2025	0.061 (J)	0.082 (J)	<0.1	0.052 (J)	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.1		
6/6/2016	<0.1					
6/7/2016		<0.1	<0.3			
7/25/2016				0.06 (J)		
7/27/2016	<0.1	<0.1				
7/28/2016			0.02 (J)			
9/16/2016	<0.1					
9/19/2016		<0.1	0.02 (J)	<0.1		
11/1/2016				0.07 (J)		
11/2/2016		<0.1				
11/3/2016	<0.1		0.07 (J)			
1/11/2017	<0.1					
1/13/2017		<0.1	<0.3			
1/16/2017				<0.1		
2/21/2017				0.05 (J)		
3/1/2017	0.03 (J)					
3/6/2017		0.04 (J)	0.09 (J)			
4/26/2017	<0.1	<0.1	0.04 (J)	<0.1		
6/28/2017	<0.1					
6/29/2017		0.03 (J)	0.05 (J)			
6/30/2017				0.01 (J)		
10/3/2017			0.08 (J)			
10/4/2017	<0.1	<0.1		<0.1		
10/11/2017					<0.1	
10/12/2017						<0.1
11/20/2017					<0.1	<0.1
1/10/2018						<0.1
1/11/2018					<0.1	
2/19/2018						<0.1
2/20/2018					<0.1	
3/27/2018				<0.1		
3/28/2018	<0.1					
3/29/2018		<0.1	<0.3			
4/3/2018					<0.1	<0.1
6/5/2018			0.13 (J)			
6/6/2018		<0.1				
6/11/2018	<0.1			<0.1		
6/28/2018					<0.1	<0.1
8/7/2018					0.048 (J)	<0.1
9/24/2018					<0.1	<0.1
9/25/2018	<0.1	<0.1	0.029 (J)			
10/2/2018				<0.1		
2/26/2019				<0.1		
3/5/2019	<0.1	<0.1	0.32			
3/26/2019						<0.1
3/27/2019					<0.1	
4/1/2019				<0.1		
4/2/2019			0.12 (J)			
4/3/2019	<0.1	<0.1				
8/21/2019					<0.1	<0.1
9/24/2019			0.15 (J)			
9/25/2019		<0.1		<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/26/2019	<0.1					
10/9/2019					<0.1	<0.1
10/10/2019		0.099 (J)	0.11 (J)			
2/11/2020	<0.1					
2/12/2020		<0.1	0.1 (J)	<0.1	<0.1	<0.1
3/19/2020				<0.1		
3/24/2020	<0.1	<0.1	0.081 (J)			<0.1
3/25/2020					<0.1	
9/23/2020	<0.1					
9/24/2020		<0.1	0.079 (J)	<0.1	<0.1	<0.1
2/9/2021	<0.1	<0.1	0.092 (J)			
2/10/2021					<0.1	<0.1
2/11/2021				<0.1		
3/1/2021				<0.1		
3/3/2021	<0.1	<0.1				
3/4/2021			0.091 (J)		<0.1	<0.1
8/19/2021				<0.1		
8/26/2021	<0.1				0.063 (J)	
8/27/2021		<0.1				
9/1/2021			0.11			
9/3/2021						<0.1
2/8/2022					0.052 (J)	<0.1
2/9/2022	<0.1	<0.1	0.1			
2/11/2022				<0.1		
8/30/2022	<0.1		0.1			
8/31/2022		<0.1		0.06 (J)	0.065 (J)	0.05 (J)
2/7/2023	<0.1	<0.1	0.1		0.076 (J)	
2/8/2023				0.064 (J)		<0.1
8/15/2023	<0.1	<0.1	0.061 (J)		<0.1	<0.1
8/16/2023				<0.1		
2/20/2024		<0.1	0.083 (J)	0.051 (J)	0.063 (J)	<0.1
2/23/2024	<0.1					
8/20/2024		<0.1	0.062 (J)	<0.1		
8/21/2024	0.051 (J)				0.083 (J)	0.06 (J)
2/25/2025	<0.1	<0.1	0.088 (J)	0.062 (J)	0.078 (J)	0.053 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	0.09 (J)				
8/31/2016		<0.1	0.11 (J)		
9/1/2016				0.08 (J)	
11/14/2016	0.18 (J)		0.71		
11/15/2016		0.12 (J)			
11/16/2016				0.04 (J)	
2/24/2017	0.05 (J)				
2/27/2017			0.22 (J)	0.05 (J)	
2/28/2017		0.07 (J)			
5/8/2017	0.03 (J)	0.04 (J)		0.004 (J)	
5/9/2017			0.2 (J)		
7/11/2017	0.07 (J)				
7/13/2017		<0.1	0.11 (J)	0.35	
10/10/2017	<0.1	<0.1	0.39		
10/11/2017				<0.3	
4/2/2018	<0.1				
4/3/2018			<0.3		
4/4/2018		<0.1		<0.3	
9/19/2018	<0.1	<0.1	<0.3	<0.3	
3/27/2019	0.081 (J)	<0.1	0.18 (J)	0.12 (J)	
8/20/2019	<0.1	<0.1	<0.3		
8/21/2019				<0.3	
10/8/2019	0.034 (J)	<0.1 (D)			
10/9/2019			<0.3 (D)	0.12 (J)	
3/17/2020	<0.1	<0.1	0.076 (J)	<0.3	
7/6/2020				0.12	
8/27/2020	<0.1	<0.1			<0.1
8/28/2020			0.07 (J)	0.12	
9/22/2020	<0.1	<0.1			<0.1
9/23/2020			0.082 (J)	0.12	
10/7/2020				0.13	<0.1
11/12/2020				0.084 (J)	<0.1
3/1/2021	<0.1	<0.1	0.073 (J)		<0.1
3/2/2021				0.12	
8/19/2021	<0.1	<0.1	0.075 (J)		
8/20/2021					<0.1
8/27/2021				0.13	
2/8/2022	<0.1				
2/9/2022		<0.1	0.063 (J)	0.12	<0.1
8/31/2022	0.065 (J)	0.055 (J)	0.1	0.12	0.059 (J)
2/8/2023	0.077 (J)	0.062 (J)			
2/9/2023			0.11		
2/10/2023				0.17	0.063 (J)
8/15/2023	<0.1	<0.1	0.07 (J)	0.12	<0.1
2/20/2024	0.073 (J)				
2/21/2024		<0.1	0.099 (J)	0.11	0.054 (J)
8/20/2024	<0.1				
8/21/2024		<0.1	0.077 (J)	0.1	
8/22/2024					<0.1
2/25/2025	0.069 (J)				
2/26/2025		<0.1	0.069 (J)	0.075 (J)	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	<0.001					
9/12/2007	<0.001					
3/20/2008	<0.001					
8/27/2008	<0.001					
3/3/2009	<0.001					
11/18/2009	<0.001					
3/3/2010	<0.001					
9/8/2010	<0.001					
3/10/2011	<0.001					
9/8/2011	<0.001					
3/5/2012	<0.001					
9/10/2012	<0.001					
2/6/2013	<0.001					
8/12/2013	<0.001					
2/5/2014	<0.001					
8/5/2014	<0.001					
2/4/2015	<0.001					
8/3/2015	<0.001					
2/16/2016	<0.001					
6/1/2016		0.00056 (J)	<0.001			<0.001
6/2/2016					0.00056 (J)	
7/21/2016	<0.001					
7/25/2016			<0.001			<0.001
7/26/2016		<0.001			0.0001 (J)	
8/31/2016	<0.001					
9/13/2016		0.0001 (J)	<0.001			
9/14/2016				<0.001		<0.001
9/15/2016					0.0002 (J)	
11/1/2016		<0.001			<0.001	<0.001
11/4/2016			<0.001	<0.001		
11/28/2016	<0.001					
12/15/2016				<0.001		
1/11/2017		<0.001			<0.001	<0.001
1/16/2017			<0.001	<0.001		
2/22/2017	<0.001					
3/1/2017						<0.001
3/2/2017		0.0001 (J)	<0.001		0.0002 (J)	
3/3/2017				<0.001		
4/26/2017					<0.001	<0.001
4/27/2017		<0.001	<0.001			
4/28/2017				<0.001		
5/8/2017	<0.001					
5/26/2017				<0.001		
6/27/2017		<0.001	<0.001			
6/28/2017				<0.001	<0.001	<0.001
7/17/2017	<0.001					
10/16/2017	<0.001					
2/19/2018	<0.001					
3/27/2018			<0.001			
3/28/2018				<0.001	<0.001	<0.001
3/29/2018		<0.001				
8/6/2018	<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/25/2019	<0.001					
2/27/2019		<0.001	<0.001	<0.001	<0.001	<0.001
6/12/2019	<0.001					
8/19/2019	<0.001					
10/8/2019	<0.001					
2/10/2020		4.9E-05 (J)	<0.001			
2/11/2020				<0.001		<0.001
2/12/2020					<0.001	
3/17/2020	<0.001					
3/18/2020			<0.001			
3/19/2020		0.00012 (J)		<0.001	0.00017 (J)	<0.001
8/26/2020	<0.001					
9/22/2020	0.0001 (J)					
9/23/2020		<0.001	0.00021 (J)	0.0011 (J)	<0.001	0.00015 (J)
2/10/2021				0.00015 (J)	<0.001	<0.001
2/12/2021		4.4E-05 (J)	0.00038 (J)			
3/2/2021	<0.001					
3/3/2021		5.6E-05 (J)	<0.001	<0.001	<0.001	<0.001
8/19/2021		<0.001	<0.001		<0.001	
8/20/2021	<0.001					
8/27/2021				<0.001		<0.001
2/8/2022	<0.001					
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2022	<0.001	<0.001		<0.001		
8/31/2022			<0.001		<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001		
2/8/2023					<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
8/16/2023						<0.001
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001
2/25/2025		<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 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.001	<0.001	<0.001	<0.001		
6/6/2016						<0.001
6/7/2016					<0.001	
7/26/2016	<0.001	<0.001	<0.001	<0.001		
7/27/2016					<0.001	<0.001
9/14/2016	<0.001	<0.001	<0.001			
9/15/2016				<0.001		
9/16/2016					<0.001	
9/19/2016						<0.001
11/2/2016	<0.001	<0.001		<0.001		
11/3/2016					<0.001	<0.001
11/4/2016			<0.001			
1/10/2017				<0.001		
1/11/2017					<0.001	<0.001
1/12/2017		<0.001	<0.001			
1/13/2017	<0.001					
3/1/2017						<0.001
3/2/2017					8E-05 (J)	
3/6/2017	<0.001					
3/7/2017		0.0001 (J)	7E-05 (J)			
3/8/2017				0.0001 (J)		
4/26/2017				<0.001		<0.001
5/1/2017	<0.001	<0.001				
5/2/2017			<0.001		<0.001	
6/27/2017		<0.001	<0.001			
6/28/2017						<0.001
6/29/2017	<0.001				8E-05 (J)	
6/30/2017				<0.001		
3/27/2018				<0.001		
3/28/2018					<0.001	<0.001
3/29/2018	<0.001	<0.001	<0.001			
2/26/2019				<0.001		
3/4/2019	<0.001	<0.001	<0.001			
3/5/2019					<0.001	
3/6/2019						<0.001
4/2/2019					<0.001	
4/3/2019	<0.001	<0.001	<0.001			<0.001
9/24/2019		<0.001	9E-05 (J)			
9/25/2019	<0.001				<0.001	
9/26/2019						<0.001
2/11/2020					<0.001	<0.001
2/12/2020	<0.001	<0.001	<0.001	<0.001		
3/18/2020				<0.001		
3/24/2020		5.4E-05 (J)	6.8E-05 (J)		6.4E-05 (J)	7.1E-05 (J)
3/25/2020	<0.001					
9/22/2020	<0.001	4.5E-05 (J)	4.2E-05 (J)			
9/23/2020					4.1E-05 (J)	6E-05 (J)
9/25/2020				<0.001		
2/8/2021		0.00013 (J)	3.7E-05 (J)			
2/9/2021	<0.001				<0.001	5E-05 (J)
2/10/2021				4.8E-05 (J)		
3/2/2021		5.1E-05 (J)	9.2E-05 (J)	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
3/3/2021	<0.001				<0.001	<0.001
8/19/2021				<0.001		
8/26/2021	<0.001	<0.001	<0.001			
8/27/2021					<0.001	<0.001
2/9/2022					<0.001	<0.001
2/10/2022		<0.001	<0.001	<0.001		
2/11/2022	<0.001					
8/30/2022		<0.001	<0.001		<0.001	<0.001
8/31/2022	<0.001			<0.001		
2/7/2023		<0.001			<0.001	<0.001
2/8/2023				<0.001		
2/9/2023	<0.001		<0.001			
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001	<0.001		<0.001	<0.001
2/23/2024				<0.001		
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/25/2025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.001		
6/6/2016	<0.001					
6/7/2016		<0.001	<0.001			
7/25/2016				<0.001		
7/27/2016	<0.001	<0.001				
7/28/2016			<0.001			
9/16/2016	<0.001					
9/19/2016		<0.001	<0.001	<0.001		
11/1/2016				<0.001		
11/2/2016		0.0013 (J)				
11/3/2016	<0.001		<0.001			
1/11/2017	<0.001					
1/13/2017		<0.001	<0.001			
1/16/2017				<0.001		
2/21/2017				<0.001		
3/1/2017	0.0001 (J)					
3/6/2017		<0.001	<0.001			
4/26/2017	0.0001 (J)	<0.001	<0.001	<0.001		
6/28/2017	0.0001 (J)					
6/29/2017		<0.001	<0.001			
6/30/2017				<0.001		
10/11/2017					0.0001 (J)	
10/12/2017						9E-05 (J)
11/20/2017					<0.001	<0.001
1/10/2018						<0.001
1/11/2018					0.0002 (J)	
2/19/2018						<0.001
2/20/2018					<0.001	
3/27/2018				<0.001		
3/28/2018	<0.001					
3/29/2018		<0.001	<0.001			
4/3/2018					<0.001	<0.001
6/28/2018					<0.001	<0.001
8/7/2018					<0.001	<0.001
9/24/2018					<0.001	<0.001
2/26/2019				<0.001		
3/5/2019	<0.001	<0.001	<0.001			
4/2/2019			<0.001			
4/3/2019	<0.001	<0.001				
8/21/2019					<0.001	<0.001
9/24/2019			<0.001			
9/25/2019		<0.001				
9/26/2019	<0.001					
10/9/2019					<0.001	<0.001
2/11/2020	<0.001					
2/12/2020		<0.001	<0.001	<0.001	<0.001	<0.001
3/19/2020				<0.001		
3/24/2020	5.4E-05 (J)	0.00011 (J)	<0.001			<0.001
3/25/2020					5.1E-05 (J)	
9/23/2020	9.7E-05 (J)					
9/24/2020		9.2E-05 (J)	4.6E-05 (J)	<0.001	<0.001	3.8E-05 (J)
2/9/2021	9.4E-05 (J)	6.3E-05 (J)	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/10/2021					<0.001	<0.001
2/11/2021				4.6E-05 (J)		
3/1/2021				<0.001		
3/3/2021	7.6E-05 (J)	4.5E-05 (J)				
3/4/2021			<0.001		<0.001	<0.001
8/19/2021				<0.001		
8/26/2021	<0.001				<0.001	
8/27/2021		<0.001				
9/1/2021			<0.001			
9/3/2021						<0.001
2/8/2022					<0.001	<0.001
2/9/2022	<0.001	<0.001	<0.001			
2/11/2022				<0.001		
8/30/2022	<0.001		<0.001			
8/31/2022		<0.001		<0.001	<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001		<0.001	
2/8/2023				<0.001		<0.001
8/15/2023	<0.001	<0.001	<0.001		<0.001	<0.001
8/16/2023				<0.001		
2/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024	<0.001					
8/20/2024		<0.001	<0.001	<0.001		
8/21/2024	<0.001				<0.001	<0.001
2/25/2025	<0.001	<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 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	<0.001				
8/31/2016		<0.001	<0.001		
9/1/2016				<0.001	
11/14/2016	<0.001		<0.001		
11/15/2016		<0.001			
11/16/2016				<0.001	
2/24/2017	<0.001				
2/27/2017			<0.001	<0.001	
2/28/2017		<0.001			
5/8/2017	<0.001	<0.001		<0.001	
5/9/2017			0.0001 (J)		
7/11/2017	<0.001				
7/13/2017		<0.001	<0.001	<0.001	
10/10/2017	<0.001	<0.001	<0.001		
10/11/2017				<0.001	
4/2/2018	<0.001				
4/3/2018			<0.001		
4/4/2018		<0.001		<0.001	
9/19/2018	<0.001	<0.001	<0.001	<0.001	
8/20/2019	<0.001	<0.001	<0.001		
8/21/2019				<0.001	
7/6/2020				<0.001	
8/27/2020	<0.001	<0.001			9.2E-05 (J)
8/28/2020			<0.001	<0.001	
9/22/2020	<0.001	<0.001			6E-05 (J)
9/23/2020			<0.001	<0.001	
10/7/2020				<0.001	<0.001
11/12/2020				4.4E-05 (J)	6.4E-05 (J)
3/1/2021	<0.001	<0.001	<0.001		8.7E-05 (J)
3/2/2021				<0.001	
8/19/2021	<0.001	<0.001	<0.001		
8/20/2021					<0.001
8/27/2021				<0.001	
2/8/2022	<0.001				
2/9/2022		<0.001	<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023	<0.001	<0.001			
2/9/2023			<0.001		
2/10/2023				<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001				
2/21/2024		<0.001	<0.001	<0.001	<0.001
8/20/2024	<0.001				
8/21/2024		<0.001	<0.001	<0.001	
8/22/2024					<0.001
2/25/2025	<0.001				
2/26/2025		<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.015	<0.03			0.01
6/2/2016					0.018	
7/25/2016			0.002 (J)			0.0132 (J)
7/26/2016		0.0135 (J)			0.0221 (J)	
8/31/2016	<0.15					
9/13/2016		0.0112 (J)	<0.03			
9/14/2016				0.004 (J)		0.012 (J)
9/15/2016					0.0197 (J)	
11/1/2016		0.0163 (J)			0.0194 (J)	0.0115 (J)
11/4/2016			<0.03	<0.03		
11/28/2016	<0.15					
12/15/2016				0.0026 (J)		
1/11/2017		0.0166 (J)			0.0177 (J)	0.0085 (J)
1/16/2017			0.0023 (J)	0.0023 (J)		
2/22/2017	<0.15					
3/1/2017						0.0114 (J)
3/2/2017		0.0159 (J)	0.0025 (J)		0.0185 (J)	
3/3/2017				0.0013 (J)		
4/26/2017					0.0183 (J)	0.0092 (J)
4/27/2017		0.0137 (J)	0.0027 (J)			
4/28/2017				0.0031 (J)		
5/8/2017	0.0014 (J)					
5/26/2017				0.0038 (J)		
6/27/2017		0.0094 (J)	0.0024 (J)			
6/28/2017				0.0026 (J)	0.0173 (J)	0.0085 (J)
7/17/2017	<0.15					
10/16/2017	0.0016 (J)					
2/19/2018	<0.15					
3/27/2018			0.0023 (J)			
3/28/2018				0.0025 (J)	0.02 (J)	0.013 (J)
3/29/2018		0.0078 (J)				
6/5/2018		0.0079 (J)				
6/6/2018			0.0024 (J)			
6/7/2018				0.0017 (J)	0.02 (J)	
6/8/2018						0.012 (J)
8/6/2018	<0.15					
10/1/2018		0.0053 (J)	0.0023 (J)	<0.03	0.02 (J)	0.011 (J)
2/27/2019		0.0093 (J)	0.0023 (J)	0.0011 (J)	0.021 (J)	0.014 (J)
3/28/2019		0.013 (J)	0.0022 (J)			
3/29/2019				0.0016 (J)		
4/1/2019					0.021 (J)	0.013 (J)
8/19/2019	0.0019 (J)					
9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)		
9/25/2019					0.02 (J)	0.01 (J)
10/8/2019	0.0015 (J)					
2/10/2020		0.011 (J)	0.0023 (J)			
2/11/2020				0.0012 (J)		0.013 (J)
2/12/2020					0.019 (J)	
3/17/2020	0.0017 (J)					
3/18/2020			0.0024 (J)			
3/19/2020		0.013 (J)		0.0022 (J)	0.023 (J)	0.014 (J)
8/26/2020	0.0032 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/22/2020	0.0029 (J)					
9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)	0.023 (J)	0.013 (J)
2/10/2021				0.0039 (J)	0.023 (J)	0.015 (J)
2/12/2021		0.01 (J)	0.0025 (J)			
3/2/2021	0.0033 (J)					
3/3/2021		0.012 (J)	0.0025 (J)	0.0016 (J)	0.024 (J)	0.017 (J)
8/19/2021		0.013 (J)	0.0023 (J)		0.023 (J)	
8/20/2021	0.0028 (J)					
8/27/2021				0.0058 (J)		0.026 (J)
2/8/2022	0.0031 (J)					
2/9/2022		0.013 (J)	0.0027 (J)	0.006 (J)	0.026 (J)	0.021 (J)
8/30/2022	0.0025 (J)	0.013 (J)		0.0044 (J)		
8/31/2022			<0.03		0.021 (J)	0.022 (J)
2/7/2023	0.0022 (J)	0.006 (J)	0.0029 (J)	0.0047 (J)		
2/8/2023					0.023 (J)	0.018 (J)
8/15/2023	<0.15	0.0079 (J)	0.002 (J)	<0.03	0.023 (J)	
8/16/2023						0.025 (J)
2/20/2024	0.0024 (J)	0.0071 (J)	<0.03	0.0021 (J)	0.021 (J)	0.02 (J)
8/20/2024		0.0037 (J)	0.0023 (J)	<0.03	0.021 (J)	0.017 (J)
2/25/2025		0.00366 (J)	0.0027 (J)	0.00111 (J)	0.0219 (J)	0.0168 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	0.013	0.0049 (J)	<0.15	<0.03		
6/6/2016						0.0088
6/7/2016					<0.03	
7/26/2016	0.0123 (J)	0.0063 (J)	0.0027 (J)	<0.03		
7/27/2016					<0.03	0.0087 (J)
9/14/2016	0.0137 (J)	0.0058 (J)	0.0029 (J)			
9/15/2016				<0.03		
9/16/2016					<0.03	
9/19/2016						0.0043 (J)
11/2/2016	0.0136 (J)	0.0053 (J)		<0.03		
11/3/2016					<0.03	<0.15
11/4/2016			<0.15			
1/10/2017				<0.03		
1/11/2017					0.0035 (J)	0.0052 (J)
1/12/2017		0.0054 (J)	0.0032 (J)			
1/13/2017	0.0121 (J)					
3/1/2017						0.0053 (J)
3/2/2017					<0.03	
3/6/2017	0.0143 (J)					
3/7/2017		0.0056 (J)	0.0035 (J)			
3/8/2017				<0.03		
4/26/2017				<0.03		0.0041 (J)
5/1/2017	0.0132 (J)	0.0031 (J)				
5/2/2017			0.0031 (J)		<0.03	
6/27/2017		0.0018 (J)	0.0029 (J)			
6/28/2017						0.0039 (J)
6/29/2017	0.0145 (J)				<0.03	
6/30/2017				<0.03		
3/27/2018				<0.03		
3/28/2018					<0.03	0.0041 (J)
3/29/2018	0.014 (J)	0.0058 (J)	0.0034 (J)			
6/6/2018		0.0068 (J)				
6/7/2018	0.013 (J)		0.0032 (J)			0.0032 (J)
6/8/2018				<0.03		
6/11/2018					<0.03	
9/25/2018					<0.03	0.0036 (J)
9/26/2018	0.014 (J)	0.0065 (J)	0.0032 (J)			
10/1/2018				<0.03		
2/26/2019				<0.03		
3/4/2019	0.015 (J)	0.0065 (J)	0.0032 (J)			
3/5/2019					<0.03	
3/6/2019						0.0033 (J)
3/29/2019				<0.03		
4/2/2019					<0.03	
4/3/2019	0.014 (J)	0.007 (J)	0.0035 (J)			0.0035 (J)
9/24/2019		0.0065 (J)	0.0031 (J)			
9/25/2019	0.014 (J)			<0.03	<0.03	
9/26/2019						0.0032 (J)
2/11/2020					<0.03	0.0033 (J)
2/12/2020	0.011 (J)	0.0066 (J)	0.0032 (J)	<0.03		
3/18/2020				<0.03		
3/24/2020		0.0064 (J)	0.0033 (J)		0.0034 (J)	0.0033 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
3/25/2020	0.014 (J)					
9/22/2020	0.013 (J)	0.0066 (J)	0.0034 (J)			
9/23/2020					<0.03	0.003 (J)
9/25/2020				<0.03		
2/8/2021		0.0063 (J)	0.0032 (J)			
2/9/2021	0.011 (J)				<0.03	0.0031 (J)
2/10/2021				<0.03		
3/2/2021		0.0018 (J)	0.0031 (J)	<0.03		
3/3/2021	0.012 (J)				<0.03	0.0034 (J)
8/19/2021				<0.03		
8/26/2021	0.0094 (J)	0.0075 (J)	0.0032 (J)			
8/27/2021					<0.03	0.0032 (J)
2/9/2022					<0.03	0.0032 (J)
2/10/2022		0.0076 (J)	0.0036 (J)	<0.03		
2/11/2022	0.012 (J)					
8/30/2022		0.0068 (J)	0.0035 (J)		<0.03	0.0036 (J)
8/31/2022	0.013 (J)			<0.03		
2/7/2023		0.0059 (J)			<0.03	0.003 (J)
2/8/2023				<0.03		
2/9/2023	0.014 (J)		0.0036 (J)			
8/15/2023	0.0083 (J)	0.0059 (J)	<0.15	<0.03	<0.03	<0.15
2/20/2024	0.014 (J)	0.0056 (J)	0.0033 (J)		<0.03	0.0038 (J)
2/23/2024				<0.03		
8/20/2024	0.011 (J)	0.0024 (J)	0.0031 (J)	<0.03	<0.03	0.0032 (J)
2/25/2025	0.0125 (J)	0.00582 (J)	0.00364 (J)	<0.03	<0.03	0.00373 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.03		
6/6/2016	0.015					
6/7/2016		<0.03	0.0055			
7/25/2016				<0.03		
7/27/2016	0.0049 (J)	<0.03				
7/28/2016			0.0045 (J)			
9/16/2016	0.0031 (J)					
9/19/2016		<0.03	0.0054 (J)	<0.03		
11/1/2016				<0.03		
11/2/2016		<0.03				
11/3/2016	0.0021 (J)		<0.05			
1/11/2017	0.0025 (J)					
1/13/2017		<0.03	0.0062 (J)			
1/16/2017				<0.03		
2/21/2017				<0.03		
3/1/2017	0.0029 (J)					
3/6/2017		<0.03	0.0059 (J)			
4/26/2017	0.0019 (J)	<0.03	0.0054 (J)	<0.03		
6/28/2017	0.0016 (J)					
6/29/2017		<0.03	0.0047 (J)			
6/30/2017				<0.03		
10/11/2017					0.0018 (J)	
10/12/2017						<0.03
11/20/2017					0.0018 (J)	<0.03
1/10/2018						<0.03
1/11/2018					0.0019 (J)	
2/19/2018						<0.03
2/20/2018					<0.05	
3/27/2018				0.0011 (J)		
3/28/2018	0.0024 (J)					
3/29/2018		<0.03	0.0062 (J)			
4/3/2018					0.0022 (J)	<0.03
6/5/2018			0.0061 (J)			
6/6/2018		<0.03				
6/11/2018	0.0014 (J)			0.0012 (J)		
6/28/2018					0.0026 (J)	<0.03
8/7/2018					0.0024 (J)	<0.03
9/24/2018					0.0022 (J)	<0.03
9/25/2018	0.0016 (J)	<0.03	0.0062 (J)			
10/2/2018				<0.03		
2/26/2019				0.0011 (J)		
3/5/2019	0.0031 (J)	<0.03	0.0053 (J)			
4/1/2019				0.001 (J)		
4/2/2019			0.0051 (J)			
4/3/2019	0.0028 (J)	<0.03				
8/21/2019					0.0035 (J)	<0.03
9/24/2019			0.0068 (J)			
9/25/2019		<0.03		0.0011 (J)		
9/26/2019	0.0029 (J)					
10/9/2019					0.0036 (J)	<0.03
2/11/2020	0.005 (J)					
2/12/2020		<0.03	0.0065 (J)	0.0013 (J)	0.0041 (J)	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/19/2020				0.0012 (J)		
3/24/2020	0.0035 (J)	<0.03	0.0064 (J)			<0.03
3/25/2020					0.0049 (J)	
9/23/2020	0.0022 (J)					
9/24/2020		<0.03	0.0069 (J)	0.0011 (J)	0.0054 (J)	<0.03
2/9/2021	0.0019 (J)	<0.03	0.006 (J)			
2/10/2021					0.0071 (J)	<0.03
2/11/2021				0.0012 (J)		
3/1/2021				0.0011 (J)		
3/3/2021	0.0021 (J)	<0.03				
3/4/2021			0.0062 (J)		0.0084 (J)	<0.03
8/19/2021				0.0012 (J)		
8/26/2021	0.0019 (J)				0.0082 (J)	
8/27/2021		<0.03				
9/1/2021			0.0057 (J)			
9/3/2021						<0.03
2/8/2022					0.008 (J)	0.00076 (J)
2/9/2022	0.0015 (J)	0.00082 (J)	0.0061 (J)			
2/11/2022				0.0014 (J)		
8/30/2022	0.0014 (J)		0.0079 (J)			
8/31/2022		<0.03		0.0012 (J)	0.0065 (J)	<0.03
2/7/2023	0.0012 (J)	<0.03	0.0059 (J)		0.0065 (J)	
2/8/2023				0.0011 (J)		0.00074 (J)
8/15/2023	0.00077 (J)	<0.03	0.0062 (J)		0.0064 (J)	<0.03
8/16/2023				<0.03		
2/20/2024		<0.03	0.0062 (J)	<0.03	0.0059 (J)	<0.03
2/23/2024	<0.03					
8/20/2024		<0.03	0.0057 (J)	<0.03		
8/21/2024	0.0032 (J)				0.0055 (J)	<0.03
2/25/2025	0.00129 (J)	<0.03	0.0067 (J)	0.00127 (J)	0.00608 (J)	0.000836 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	0.0061 (J)				
8/31/2016		0.0115 (J)	0.0147 (J)		
9/1/2016				0.0077 (J)	
11/14/2016	0.0064 (J)		0.0175 (J)		
11/15/2016		0.0148 (J)			
11/16/2016				0.0075 (J)	
2/24/2017	0.0049 (J)				
2/27/2017			0.0135 (J)	0.0084 (J)	
2/28/2017		0.0124 (J)			
5/8/2017	0.0053 (J)	0.0132 (J)		0.0087 (J)	
5/9/2017			0.0136 (J)		
7/11/2017	0.0051 (J)				
7/13/2017		0.0124 (J)	0.0129 (J)	0.0104 (J)	
10/10/2017	0.0043 (J)	0.0123 (J)	0.015 (J)		
10/11/2017				0.0099 (J)	
4/2/2018	0.0045 (J)				
4/3/2018			0.014 (J)		
4/4/2018		0.014 (J)		0.012 (J)	
9/19/2018	0.0043 (J)	0.013 (J)	0.012 (J)	0.011 (J)	
8/20/2019	0.0036 (J)	0.013 (J)	0.012 (J)		
8/21/2019				0.0076 (J)	
10/8/2019	0.0036 (J)	0.012 (J)			
10/9/2019			0.012 (J)	0.0078 (J)	
3/17/2020	0.0046 (J)	0.013 (J)	0.014 (J)	0.0071 (J)	
7/6/2020				0.011 (J)	
8/27/2020	0.0039 (J)	0.013 (J)			0.0048 (J)
8/28/2020			0.012 (J)	0.012 (J)	
9/22/2020	0.0036 (J)	0.013 (J)			0.0046 (J)
9/23/2020			0.012 (J)	0.013 (J)	
10/7/2020				0.011 (J)	0.0041 (J)
11/12/2020				0.014 (J)	0.0044 (J)
3/1/2021	0.0037 (J)	0.013 (J)	0.012 (J)		0.0043 (J)
3/2/2021				0.013 (J)	
8/19/2021	0.0038 (J)	0.013 (J)	0.012 (J)		
8/20/2021					0.0043 (J)
8/27/2021				0.014 (J)	
2/8/2022	0.0039 (J)				
2/9/2022		0.014 (J)	0.012 (J)	0.014 (J)	0.0042 (J)
8/31/2022	0.0037 (J)	0.013 (J)	0.012 (J)	0.015 (J)	0.0037 (J)
2/8/2023	0.0037 (J)	0.014 (J)			
2/9/2023			0.01 (J)		
2/10/2023				0.011 (J)	0.0033 (J)
8/15/2023	0.004 (J)	0.013 (J)	0.012 (J)	0.012 (J)	0.004 (J)
2/20/2024	0.0036 (J)				
2/21/2024		0.012 (J)	0.012 (J)	0.012 (J)	0.0036 (J)
8/20/2024	0.0036 (J)				
8/21/2024		0.011 (J)	0.011 (J)	0.011 (J)	
8/22/2024					0.0034 (J)
2/25/2025	0.00393 (J)				
2/26/2025		0.0146 (J)	0.014 (J)	0.0178 (J)	0.00364 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	<0.0002					
9/12/2007	<0.0002					
3/20/2008	<0.0002					
8/27/2008	<0.0002					
3/3/2009	<0.0002					
11/18/2009	<0.0002					
3/3/2010	<0.0002					
9/8/2010	<0.0002					
3/10/2011	<0.0002					
9/8/2011	<0.0002					
3/5/2012	<0.0002					
9/10/2012	<0.0002					
2/6/2013	<0.0002					
8/12/2013	<0.0002					
2/5/2014	<0.0002					
8/5/2014	<0.0002					
2/4/2015	<0.0002					
8/3/2015	<0.0002					
2/16/2016	1.36E-05 (J)					
6/1/2016		<0.0002	<0.0002			<0.0002
6/2/2016					<0.0002	
7/21/2016	<0.0002					
7/25/2016			<0.0002			<0.0002
7/26/2016		<0.0002			<0.0002	
8/31/2016	<0.0002					
9/13/2016		<0.0002	<0.0002			
9/14/2016				<0.0002		<0.0002
9/15/2016					<0.0002	
11/1/2016		<0.0002			<0.0002	<0.0002
11/4/2016			<0.0002	<0.0002		
11/28/2016	<0.0002					
12/15/2016				<0.0002		
1/11/2017		<0.0002			<0.0002	<0.0002
1/16/2017			<0.0002	<0.0002		
2/22/2017	<0.0002					
3/1/2017						<0.0002
3/2/2017		<0.0002	<0.0002		6E-05 (J)	
3/3/2017				<0.0002		
4/26/2017					<0.0002	<0.0002
4/27/2017		<0.0002	<0.0002			
4/28/2017				<0.0002		
5/8/2017	<0.0002					
5/26/2017				<0.0002		
6/27/2017		<0.0002	<0.0002			
6/28/2017				<0.0002	<0.0002	<0.0002
7/17/2017	<0.0002					
10/16/2017	<0.0002					
2/19/2018	<0.0002					
3/27/2018			<0.0002			
3/28/2018				<0.0002	<0.0002	<0.0002
3/29/2018		<0.0002				
8/6/2018	<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/25/2019	7.4E-05 (J)					
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0002	6.2E-05 (J)	6.1E-05 (J)
3/28/2019		4E-05 (J)	<0.0002			
3/29/2019				<0.0002		
4/1/2019					9.6E-05 (J)	8.4E-05 (J)
6/12/2019	<0.0002					
8/19/2019	<0.0002					
9/24/2019		<0.0002	<0.0002	<0.0002		
9/25/2019					<0.0002	<0.0002
10/8/2019	<0.0002					
2/10/2020		<0.0002	<0.0002			
2/11/2020				<0.0002		<0.0002
2/12/2020					<0.0002	
5/6/2020	<0.0002					
8/26/2020	<0.0002					
9/22/2020	<0.0002					
2/10/2021				<0.0002	<0.0002	<0.0002
2/12/2021		<0.0002	<0.0002			
3/2/2021	<0.0002					
8/20/2021	<0.0002					
2/8/2022	<0.0002					
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/30/2022	<0.0002	<0.0002		<0.0002		
8/31/2022			<0.0002		<0.0002	<0.0002
2/7/2023	0.00013 (J)	<0.0002	<0.0002	<0.0002		
2/8/2023					<0.0002	<0.0002
8/15/2023	<0.0002	0.00015 (J)	0.00015 (J)	0.00015 (J)	0.00014 (J)	
8/16/2023						<0.0002
2/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/20/2024		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/25/2025		<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 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.0002	<0.0002	<0.0002	<0.0002		
6/6/2016						7.4E-05 (J)
6/7/2016					9.5E-05 (J)	
7/26/2016	<0.0002	<0.0002	<0.0002	<0.0002		
7/27/2016					<0.0002	<0.0002
9/14/2016	<0.0002	<0.0002	<0.0002			
9/15/2016				<0.0002		
9/16/2016					<0.0002	
9/19/2016						<0.0002
11/2/2016	<0.0002	<0.0002		<0.0002		
11/3/2016					<0.0002	<0.0002
11/4/2016			<0.0002			
1/10/2017				<0.0002		
1/11/2017					<0.0002	<0.0002
1/12/2017		<0.0002	<0.0002			
1/13/2017	<0.0002					
3/1/2017						<0.0002
3/2/2017					<0.0002	
3/6/2017	0.00014 (J)					
3/7/2017		0.0001 (J)	0.00013 (J)			
3/8/2017				0.00012 (J)		
4/26/2017				<0.0002		<0.0002
5/1/2017	<0.0002	<0.0002				
5/2/2017			<0.0002		<0.0002	
6/27/2017		<0.0002	<0.0002			
6/28/2017						<0.0002
6/29/2017	<0.0002				<0.0002	
6/30/2017				<0.0002		
3/27/2018				<0.0002		
3/28/2018					<0.0002	<0.0002
3/29/2018	<0.0002	<0.0002	<0.0002			
9/25/2018					<0.0002	<0.0002
9/26/2018	<0.0002	<0.0002	<0.0002			
2/26/2019				6.1E-05 (J)		
3/4/2019	<0.0002	<0.0002	<0.0002			
3/5/2019					<0.0002	
3/6/2019						<0.0002
3/29/2019				<0.0002		
9/25/2019				<0.0002		
2/11/2020					<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002		
2/8/2021		<0.0002	<0.0002			
2/9/2021	<0.0002				<0.0002	<0.0002
2/10/2021				<0.0002		
3/2/2021		<0.0002	<0.0002			
3/3/2021	<0.0002				<0.0002	<0.0002
8/26/2021	<0.0002	<0.0002	<0.0002			
8/27/2021					<0.0002	<0.0002
2/9/2022					<0.0002	<0.0002
2/10/2022		<0.0002	<0.0002	<0.0002		
2/11/2022	<0.0002					
8/30/2022		<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 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
8/31/2022	<0.0002			<0.0002		
2/7/2023		<0.0002			0.00018 (J)	0.00013 (J)
2/8/2023				<0.0002		
2/9/2023	<0.0002		<0.0002			
8/15/2023	0.00013 (J)	0.00015 (J)	0.00014 (J)	0.00016 (J)	<0.0002	0.00014 (J)
2/20/2024	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
2/23/2024				<0.0002		
8/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/25/2025	<0.0002	<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 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.0002		
6/6/2016	7.6E-05 (J)					
6/7/2016		9.6E-05 (J)	9.6E-05 (J)			
7/25/2016				<0.0002		
7/27/2016	<0.0002	<0.0002				
7/28/2016			<0.0002			
9/16/2016	<0.0002					
9/19/2016		<0.0002	<0.0002	<0.0002		
11/1/2016				<0.0002		
11/2/2016		<0.0002				
11/3/2016	<0.0002		<0.0002			
1/11/2017	<0.0002					
1/13/2017		<0.0002	<0.0002			
1/16/2017				<0.0002		
2/21/2017				<0.0002		
3/1/2017	<0.0002					
3/6/2017		0.00014 (J)	0.00014 (J)			
4/26/2017	<0.0002	<0.0002	<0.0002	<0.0002		
6/28/2017	<0.0002					
6/29/2017		5.3E-05 (J)	<0.0002			
6/30/2017				6E-05 (J)		
10/11/2017					<0.0002	
10/12/2017						<0.0002
11/20/2017					7E-05 (J)	8E-05 (J)
1/10/2018						<0.0002
1/11/2018					<0.0002	
2/19/2018						<0.0002
2/20/2018					<0.0002	
3/27/2018				<0.0002		
3/28/2018	<0.0002					
3/29/2018		<0.0002	<0.0002			
4/3/2018					<0.0002	<0.0002
6/28/2018					<0.0002	3.6E-05 (J)
8/7/2018					<0.0002	<0.0002
9/24/2018					<0.0002	<0.0002
9/25/2018	<0.0002	<0.0002	<0.0002			
2/26/2019				6.8E-05 (J)		
3/5/2019	<0.0002	<0.0002	<0.0002			
4/1/2019				8.2E-05 (J)		
8/21/2019					<0.0002	<0.0002
9/25/2019				<0.0002		
2/11/2020	<0.0002					
2/12/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/9/2021	<0.0002	<0.0002	<0.0002			
2/10/2021					<0.0002	<0.0002
2/11/2021				<0.0002		
3/3/2021	<0.0002	<0.0002				
3/4/2021			<0.0002		<0.0002	<0.0002
8/26/2021	<0.0002				<0.0002	
8/27/2021		<0.0002				
9/1/2021			<0.0002			
9/3/2021						0.00012 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/8/2022					<0.0002	0.00013 (J)
2/9/2022	<0.0002	<0.0002	<0.0002			
2/11/2022				<0.0002		
8/30/2022	<0.0002		<0.0002			
8/31/2022		<0.0002		<0.0002	<0.0002	0.00064
2/7/2023	0.00017 (J)	0.00015 (J)	0.00017 (J)		<0.0002	
2/8/2023				<0.0002		<0.0002
8/15/2023	0.00015 (J)	<0.0002	<0.0002		<0.0002	0.00037
8/16/2023				<0.0002		
2/20/2024		<0.0002	<0.0002	<0.0002	<0.0002	0.00032
2/23/2024	<0.0002					
8/20/2024		<0.0002	<0.0002	<0.0002		
8/21/2024	<0.0002				<0.0002	0.00033
2/25/2025	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00034

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	<0.0002				
8/31/2016		<0.0002	<0.0002		
9/1/2016				<0.0002	
11/14/2016	<0.0002		<0.0002		
11/15/2016		<0.0002			
11/16/2016				<0.0002	
2/24/2017	<0.0002				
2/27/2017			<0.0002	<0.0002	
2/28/2017		<0.0002			
5/8/2017	<0.0002	<0.0002		<0.0002	
5/9/2017			<0.0002		
7/11/2017	<0.0002				
7/13/2017		<0.0002	<0.0002	<0.0002	
10/10/2017	<0.0002	<0.0002	<0.0002		
10/11/2017				<0.0002	
4/2/2018	<0.0002				
4/3/2018			<0.0002		
4/4/2018		<0.0002		<0.0002	
9/19/2018	5.3E-05 (J)	6E-05 (J)	7.1E-05 (J)	7E-05 (J)	
8/20/2019	<0.0002	<0.0002	<0.0002		
8/21/2019				<0.0002	
7/6/2020				<0.0002	
8/27/2020	<0.0002	<0.0002			<0.0002
8/28/2020			<0.0002	<0.0002	
11/12/2020				<0.0002	<0.0002
8/19/2021	<0.0002	<0.0002	<0.0002		
8/20/2021					<0.0002
8/27/2021				<0.0002	
2/8/2022	<0.0002				
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/8/2023	<0.0002	<0.0002			
2/9/2023			<0.0002		
2/10/2023				<0.0002	<0.0002
8/15/2023	0.00014 (J)	<0.0002	<0.0002	<0.0002	<0.0002
2/20/2024	<0.0002				
2/21/2024		<0.0002	<0.0002	<0.0002	<0.0002
8/20/2024	<0.0002				
8/21/2024		<0.0002	<0.0002	<0.0002	
8/22/2024					<0.0002
2/25/2025	<0.0002				
2/26/2025		<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.014 (J)	0.012 (J)			0.0055 (J)
6/2/2016					0.0093 (J)	
7/25/2016			0.0098 (J)			0.0037 (J)
7/26/2016		0.0132			0.0113	
8/31/2016	<0.01					
9/13/2016		0.0127	0.01 (J)			
9/14/2016				0.0039 (J)		0.0034 (J)
9/15/2016					0.0112	
11/1/2016		0.0092 (J)			0.0099 (J)	0.0025 (J)
11/4/2016			0.01	0.0077 (J)		
11/28/2016	<0.01					
12/15/2016				0.0066 (J)		
1/11/2017		0.0093 (J)			0.0093 (J)	0.0033 (J)
1/16/2017			0.0086 (J)	0.0056 (J)		
2/22/2017	<0.01					
3/1/2017						0.0044 (J)
3/2/2017		0.0099 (J)	0.01		0.0103	
3/3/2017				0.0049 (J)		
4/26/2017					0.01	0.0075 (J)
4/27/2017		0.0103	0.0101			
4/28/2017				0.004 (J)		
5/8/2017	<0.01					
5/26/2017				0.0029 (J)		
6/27/2017		0.0097 (J)	0.0093 (J)			
6/28/2017				0.0036 (J)	0.0102	0.008 (J)
7/17/2017	<0.01					
10/16/2017	<0.01					
2/19/2018	<0.01					
3/27/2018			0.0074 (J)			
3/28/2018				0.0038 (J)	0.011	0.0025 (J)
3/29/2018		0.0076 (J)				
6/5/2018		0.0092 (J)				
6/6/2018			0.0073 (J)			
6/7/2018				0.004 (J)	0.011	
6/8/2018						0.0041 (J)
8/6/2018	<0.01					
10/1/2018		0.0085 (J)	0.0076 (J)	0.0042 (J)	0.012	0.0037 (J)
2/27/2019		0.0087 (J)	0.0078 (J)	0.0041 (J)	0.011	0.0027 (J)
3/28/2019		0.0092 (J)	0.0082 (J)			
3/29/2019				0.0041 (J)		
4/1/2019					0.012	0.0021 (J)
8/19/2019	<0.01					
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)		
9/25/2019					0.012	0.0087 (J)
2/10/2020		0.0087 (J)	0.0062 (J)			
2/11/2020				0.0057 (J)		0.003 (J)
2/12/2020					0.013	
3/18/2020			0.0056 (J)			
3/19/2020		0.0088 (J)		0.0046 (J)	0.013	0.0043 (J)
8/26/2020	<0.01					
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)	0.012	0.01
2/10/2021				0.0041 (J)	0.014	0.0038 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/12/2021		0.008 (J)	0.0056 (J)			
3/3/2021		0.0088 (J)	0.0049 (J)	0.0074 (J)	0.013	0.0036 (J)
8/19/2021		0.0083 (J)	0.005 (J)		0.013	
8/20/2021	<0.01					
8/27/2021				0.0048 (J)		0.0099 (J)
2/8/2022	<0.01					
2/9/2022		0.0093 (J)	0.0055 (J)	0.0057 (J)	0.013	0.0087 (J)
8/30/2022	<0.01	0.0094 (J)		0.0068 (J)		
8/31/2022			0.0055 (J)		0.011	0.0068 (J)
2/7/2023	<0.01	<0.01	<0.01	0.0061 (J)		
2/8/2023					0.012	0.0065 (J)
8/15/2023	<0.01	0.0098 (J)	0.0047 (J)	0.0071 (J)	0.012	
8/16/2023						0.012
2/20/2024	<0.01	0.0098 (J)	0.03	0.0076 (J)	0.013	0.0089 (J)
8/20/2024		0.01	0.0039 (J)	0.011	0.012	0.0058 (J)
2/25/2025		0.01	0.0032 (J)	0.0069 (J)	0.017	0.0086 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.01	0.0035 (J)	<0.01	<0.01		
6/6/2016						<0.01
6/7/2016					<0.01	
7/26/2016	<0.01	0.0042 (J)	<0.01	<0.01		
7/27/2016					<0.01	<0.01
9/14/2016	<0.01	0.0041 (J)	<0.01			
9/15/2016				<0.01		
9/16/2016					<0.01	
9/19/2016						<0.01
11/2/2016	<0.01	0.0039 (J)		<0.01		
11/3/2016					<0.01	<0.01
11/4/2016			<0.01			
1/10/2017				<0.01		
1/11/2017					<0.01	<0.01
1/12/2017		0.0041 (J)	<0.01			
1/13/2017	<0.01					
3/1/2017						<0.01
3/2/2017					<0.01	
3/6/2017	<0.01					
3/7/2017		0.0047 (J)	<0.01			
3/8/2017				<0.01		
4/26/2017				<0.01		<0.01
5/1/2017	<0.01	0.0045 (J)				
5/2/2017			<0.01		<0.01	
6/27/2017		0.004 (J)	<0.01			
6/28/2017						<0.01
6/29/2017	<0.01				<0.01	
6/30/2017				<0.01		
3/27/2018				<0.01		
3/28/2018					<0.01	<0.01
3/29/2018	<0.01	<0.01	<0.01			
6/8/2018				<0.01		
10/1/2018				<0.01		
2/26/2019				<0.01		
3/4/2019	<0.01	<0.01	<0.01			
3/5/2019					<0.01	
3/6/2019						<0.01
3/29/2019				<0.01		
9/25/2019				<0.01		
2/11/2020					<0.01	<0.01
2/12/2020	<0.01	0.0011 (J)	<0.01	<0.01		
3/18/2020				<0.01		
3/24/2020		0.0011 (J)	<0.01		<0.01	<0.01
3/25/2020	<0.01					
9/22/2020	<0.01	0.00099 (J)	<0.01			
9/23/2020					<0.01	<0.01
9/25/2020				<0.01		
2/8/2021		0.0011 (J)	<0.01			
2/9/2021	<0.01				<0.01	<0.01
2/10/2021				<0.01		
3/2/2021		<0.01	<0.01	<0.01		
3/3/2021	<0.01				<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
8/19/2021				<0.01		
8/26/2021	<0.01	0.001 (J)	<0.01			
8/27/2021					<0.01	<0.01
2/9/2022					<0.01	<0.01
2/10/2022		0.00096 (J)	<0.01	<0.01		
2/11/2022	<0.01					
8/30/2022		0.00089 (J)	<0.01		<0.01	<0.01
8/31/2022	<0.01			<0.01		
2/7/2023		0.00095 (J)			<0.01	<0.01
2/8/2023				<0.01		
2/9/2023	<0.01		<0.01			
8/15/2023	<0.01	0.0009 (J)	<0.01	<0.01	<0.01	<0.01
2/20/2024	<0.01	0.001 (J)	<0.01		<0.01	<0.01
2/23/2024				<0.01		
8/20/2024	<0.01	0.00074 (J)	<0.01	<0.01	<0.01	<0.01
2/25/2025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.01		
6/6/2016	<0.01					
6/7/2016		<0.01	<0.01			
7/25/2016				<0.01		
7/27/2016	<0.01	<0.01				
7/28/2016			<0.01			
9/16/2016	<0.01					
9/19/2016		<0.01	<0.01	<0.01		
11/1/2016				<0.01		
11/2/2016		<0.01				
11/3/2016	<0.01		<0.01			
1/11/2017	<0.01					
1/13/2017		<0.01	<0.01			
1/16/2017				<0.01		
2/21/2017				<0.01		
3/1/2017	<0.01					
3/6/2017		<0.01	0.0007 (J)			
4/26/2017	<0.01	<0.01	0.0008 (J)	<0.01		
6/28/2017	<0.01					
6/29/2017		<0.01	<0.01			
6/30/2017				<0.01		
10/11/2017					0.0094 (J)	
10/12/2017						<0.01
11/20/2017					0.0081 (J)	<0.01
1/10/2018						<0.01
1/11/2018					0.0074 (J)	
2/19/2018						<0.01
2/20/2018					<0.01	
3/27/2018				<0.01		
3/28/2018	<0.01					
3/29/2018		<0.01	<0.01			
4/3/2018					0.006 (J)	<0.01
6/11/2018				<0.01		
6/28/2018					0.005 (J)	<0.01
8/7/2018					0.0045 (J)	<0.01
9/24/2018					0.0035 (J)	<0.01
10/2/2018				<0.01		
2/26/2019				<0.01		
3/5/2019	<0.01	<0.01	<0.01			
4/1/2019				<0.01		
8/21/2019					0.0021 (J)	<0.01
9/25/2019				<0.01		
10/9/2019					0.0018 (J)	<0.01
2/11/2020	<0.01					
2/12/2020		<0.01	<0.01	<0.01	0.0025 (J)	<0.01
3/19/2020				<0.01		
3/24/2020	<0.01	<0.01	<0.01			<0.01
3/25/2020					0.002 (J)	
9/23/2020	<0.01					
9/24/2020		<0.01	<0.01	<0.01	0.0016 (J)	<0.01
2/9/2021	<0.01	<0.01	<0.01			
2/10/2021					0.0013 (J)	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/2021				<0.01		
3/1/2021				<0.01		
3/3/2021	<0.01	<0.01				
3/4/2021			<0.01		0.0014 (J)	<0.01
8/19/2021				<0.01		
8/26/2021	<0.01				0.0027 (J)	
8/27/2021		<0.01				
9/1/2021			<0.01			
9/3/2021						<0.01
2/8/2022					0.0035 (J)	<0.01
2/9/2022	<0.01	<0.01	<0.01			
2/11/2022				<0.01		
8/30/2022	<0.01		<0.01			
8/31/2022		<0.01		<0.01	0.0036 (J)	<0.01
2/7/2023	<0.01	<0.01	<0.01		0.0045 (J)	
2/8/2023				<0.01		<0.01
8/15/2023	<0.01	<0.01	<0.01		0.0061 (J)	<0.01
8/16/2023				<0.01		
2/20/2024		<0.01	<0.01	<0.01	0.0058 (J)	<0.01
2/23/2024	<0.01					
8/20/2024		<0.01	<0.01	<0.01		
8/21/2024	<0.01				0.0068 (J)	<0.01
2/25/2025	<0.01	<0.01	<0.01	<0.01	0.0056 (J)	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	<0.01				
8/31/2016		<0.01	0.0024 (J)		
9/1/2016				<0.01	
11/14/2016	<0.01		<0.01		
11/15/2016		<0.01			
11/16/2016				<0.01	
2/24/2017	<0.01				
2/27/2017			0.0018 (J)	<0.01	
2/28/2017		0.0005 (J)			
5/8/2017	<0.01	<0.01		0.0008 (J)	
5/9/2017			0.0015 (J)		
7/11/2017	<0.01				
7/13/2017		<0.01	0.0015 (J)	0.0015 (J)	
10/10/2017	<0.01	<0.01	0.0015 (J)		
10/11/2017				0.002 (J)	
4/2/2018	<0.01				
4/3/2018			<0.01		
4/4/2018		<0.01		0.0021 (J)	
9/19/2018	<0.01	<0.01	<0.01	0.0039 (J)	
8/20/2019	<0.01	<0.01	0.0011 (J)		
8/21/2019				0.0012 (J)	
10/8/2019	<0.01	<0.01			
10/9/2019			0.0012 (J)	0.0013 (J)	
3/17/2020	<0.01	<0.01	0.0016 (J)	0.0015 (J)	
7/6/2020				0.0026 (J)	
8/27/2020	<0.01	<0.01			<0.01
8/28/2020			0.0013 (J)	0.003 (J)	
9/22/2020	<0.01	<0.01			<0.01
9/23/2020			0.0011 (J)	0.0025 (J)	
10/7/2020				0.0024 (J)	<0.01
11/12/2020				0.0019 (J)	<0.01
3/1/2021	<0.01	<0.01	0.0012 (J)		<0.01
3/2/2021				0.0023 (J)	
8/19/2021	<0.01	<0.01	0.0012 (J)		
8/20/2021					<0.01
8/27/2021				0.0022 (J)	
2/8/2022	<0.01				
2/9/2022		<0.01	0.0012 (J)	0.0021 (J)	<0.01
8/31/2022	<0.01	<0.01	0.0011 (J)	0.0017 (J)	<0.01
2/8/2023	<0.01	<0.01			
2/9/2023			0.00097 (J)		
2/10/2023				0.0029 (J)	0.00083 (J)
8/15/2023	<0.01	<0.01	0.0011 (J)	0.0031 (J)	<0.01
2/20/2024	<0.01				
2/21/2024		<0.01	0.00098 (J)	0.0032 (J)	<0.01
8/20/2024	<0.01				
8/21/2024		<0.01	0.001 (J)	0.0038 (J)	
8/22/2024					<0.01
2/25/2025	<0.01				
2/26/2025		<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2008	6.53					
3/3/2009	6.35					
11/18/2009	6.47					
3/3/2010	6.53					
3/10/2011	5.83					
9/8/2011	5.69					
3/5/2012	6.27					
9/10/2012	6.23					
2/6/2013	7.56					
8/12/2013	6.68					
2/5/2014	6.32					
8/3/2015	6.13					
2/16/2016	5.64					
6/1/2016		7.46	6.33			7.72
6/2/2016					7.84	
7/25/2016			6.21			7.74
7/26/2016		7.43			7.88	
8/31/2016	6.32					
9/13/2016		7.44	6.16	7.41		
9/14/2016						7.65
9/15/2016					7.74	
11/1/2016		7.24			7.75	7.7
11/4/2016			6.29	7.12		
11/28/2016	6.23					
12/15/2016				7.24		
1/11/2017		7.3			7.66	7.53
1/16/2017			6.29	7.24		
2/22/2017	6.21					
3/1/2017						7.42
3/2/2017		7.23	6.28		7.68	
3/3/2017				7.22		
4/26/2017					7.45	7.4
4/27/2017		6.99	6.09			
4/28/2017				7.21		
5/8/2017	6.12					
5/26/2017				7.13		
6/27/2017		6.87	6.21			
6/28/2017				7.06	7.65	7.5
7/17/2017	6.03					
10/3/2017		6.81	5.98	6.99		
10/4/2017					7.49	7.45
10/16/2017	6.12					
2/19/2018	6.13					
3/27/2018			6.25			
3/28/2018				7.3	7.91	7.74
3/29/2018		7.38				
6/5/2018		7.16				
6/6/2018			6.17			
6/7/2018				7.29	7.69	
6/8/2018						7.64
8/6/2018	6.01					
10/1/2018		6.8	5.9	7.07	7.39	7.47

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/25/2019	6.51					
2/27/2019		6.84	5.8	7.27	7.55	7.54
3/28/2019		6.99	6.15			
3/29/2019				7.06		
4/1/2019					7.87	7.74
6/12/2019	6.3					
8/19/2019	6.23					
9/24/2019		7.07	6.23	7.01		
9/25/2019					7.64	7.47
10/8/2019	6.28					
2/10/2020		7.2	6.1			
2/11/2020				7.38		7.09
2/12/2020					7.83	
3/17/2020	6.14					
3/18/2020			6.19			
3/19/2020		7.03		7.22	7.65	7.31
5/6/2020	6.24					
8/26/2020	5.67					
9/22/2020	5.78					
9/23/2020		7.15	6.01	7.22	7.57	7.37
2/10/2021				7.29	7.81	7.58
2/12/2021		7.14	6.21			
3/2/2021	5.42					
3/3/2021		7.2	5.38	7.92	8.39	8.13
8/19/2021		6.32	6.38		5.34	
8/20/2021	5.86					
8/27/2021				7.16		7.39
2/8/2022	5.83					
2/9/2022		7.12	6.24	5.86	7.97	7.66
8/30/2022	5.39	7.2		7.04		
8/31/2022			5.64		7.65	7.49
2/7/2023	5.94	7.86	6.53	6.94		
2/8/2023					7.88	7.73
8/15/2023	5.3	6.98	5.88	6.96	7.69	
8/16/2023						7.39
2/20/2024	6.07	7.06	6.42	7.23	7.81	7.59
8/20/2024		7.18	5.77	6.91	7.59	7.45
2/25/2025		7.18	6.02	7.14	7.79	7.55

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	6.36	7.67	5.75	5.46		
6/6/2016						6.17
6/7/2016					5.62	
7/26/2016	6.22	7.66	5.72	5.45		
7/27/2016					5.59	6.14
9/14/2016	6.23	7.6	5.74			
9/15/2016				5.45		
9/16/2016					5.58	
9/19/2016						6.04
11/2/2016	6.08	7.35		5.41		
11/3/2016					5.59	5.97
11/4/2016			5.61			
1/10/2017				5.37		
1/11/2017					5.59	6.05
1/12/2017		7.49	5.71			
1/13/2017	6.19					
3/1/2017						5.94
3/2/2017					5.54	
3/6/2017	6.2					
3/7/2017		7.43	5.66			
3/8/2017				5.41		
4/26/2017				5.02		5.99
5/1/2017	6.21	7.22				
5/2/2017			5.65		5.47	
6/27/2017		7.32	5.7			
6/28/2017						6
6/29/2017	6.21				5.56	
6/30/2017				5.39		
10/3/2017		7.48	5.79			
10/4/2017					5.57	
10/5/2017	6.16			5.49		6.11
3/27/2018				5.47		
3/28/2018					5.59	6.1
3/29/2018	6.09	7.02	5.63			
6/6/2018		7.43				
6/7/2018	6.12		5.63			5.98
6/8/2018				5.45		
6/11/2018					5.58	
9/25/2018					5.59	5.81
9/26/2018	5.84	7.13	5.63			
10/1/2018				5.39		
2/26/2019				5.46		
3/4/2019	6.18	7.46	5.75			
3/5/2019					5.48	
3/6/2019						5.99
3/29/2019				5.34		
4/2/2019					5.74	
4/3/2019	6.43	7.11	5.63			6.29
9/24/2019		6.93	5.6			
9/25/2019	6.2			5.19	5.49	
9/26/2019						6.04
2/11/2020					5.58	6.07

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
2/12/2020	6.15	7.52	5.83	5.48		
3/18/2020				5.38		
3/24/2020		7.34	5.81		5.57	5.98
3/25/2020	6.26					
9/22/2020	5.8	7.19	5.99			
9/23/2020					5.58	6.01
9/25/2020				5.44		
2/8/2021		7.66	5.67			
2/9/2021	6.06				5.62	6.12
2/10/2021				5.35		
3/2/2021		7.15	5.63	5.49		
3/3/2021	6.21				5.52	5.89
8/19/2021				7.32		
8/26/2021	5.82	7.16	5.51			
8/27/2021					5.27	5.4
2/9/2022					5.53	5.98
2/10/2022		6.99	5.14	4.5		
2/11/2022	5.95					
8/30/2022		7.4	5		4.68	5.89
8/31/2022	5.5			5.15		
2/7/2023		6.64			5.47	6
2/8/2023				5.39		
2/9/2023	6.23		5.9			
8/15/2023	5.99	7.34	5.58	5.03	5.54	5.82
2/20/2024	6.21	7.56	5.78		5.64	6.11
2/23/2024				5.39		
8/20/2024	6.03	7.3	5.58	5.49	5.45	5.74
2/25/2025	5.98	7.4	5.77	5.16	5.59	6

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				5.75		
6/6/2016	5.71					
6/7/2016		5.77	6.1			
7/25/2016				5.82		
7/27/2016	5.46	5.79				
7/28/2016			6.12			
9/19/2016	5.59	5.73	6.12	5.78		
11/1/2016				5.62		
11/2/2016		5.67				
11/3/2016	5.39		6.07			
1/11/2017	5.48					
1/13/2017		5.79	6.41			
1/16/2017				5.72		
2/21/2017				5.67		
3/1/2017	5.41					
3/6/2017		5.63	6.34			
4/26/2017	5.4	5.66	6.32	5.56		
6/28/2017	5.36					
6/29/2017		5.85	6.47			
6/30/2017				5.72		
10/3/2017			6.56			
10/4/2017	5.32	5.83		5.87		
10/11/2017					6.4	
10/12/2017						5.43
11/20/2017					6.33	5.1
1/10/2018						4.97
1/11/2018					6.29	
2/19/2018						5.6
2/20/2018					7.22	
3/27/2018				5.83		
3/28/2018	5.34					
3/29/2018		5.93	6.75			
4/3/2018					6.87	5.84
6/5/2018			6.09			
6/6/2018		5.86				
6/11/2018	5.28			5.69		
6/28/2018					6.18	5.24
8/7/2018					6.08	5.18
9/24/2018					5.81	5.14
9/25/2018	4.86	5.84	6.67			
10/2/2018				5.39		
2/26/2019				5.77		
3/5/2019	5.26	6.07	7.22			
3/26/2019						5.3
3/27/2019					5.84	
4/1/2019				5.62		
4/2/2019			6.94			
4/3/2019	5.47	5.71				
8/21/2019					5.96	5.26
9/24/2019			6.87			
9/25/2019		5.86		5.69		
9/26/2019	5.2					

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019					5.81	5.22
2/11/2020	5.3					
2/12/2020		6	7.13	5.8	5.97	5.3
3/19/2020				6		
3/24/2020	5.33	5.86	6.35			5.29
3/25/2020					5.78	
9/23/2020	5.29					
9/24/2020		5.8	6.7	5.67	5.7	5.43
2/9/2021	5.43	5.86	6.95			
2/10/2021					5.8	5.19
2/11/2021				5.73		
3/1/2021				5.78		
3/3/2021	5.31	5.89				
3/4/2021			6.8		5.54	5.23
8/19/2021				5.43		
8/26/2021	4.4				6.91	
8/27/2021		5.57				
9/1/2021			6.65			
9/3/2021						5.01
2/8/2022					5.78	5.26
2/9/2022	5.28	5.91	6.84			
2/11/2022				5.59		
8/30/2022	5.18		6.58			
8/31/2022		5.38		5.87	5.3	4.53
2/7/2023	5.03	5.63	6.82		5.49	
2/8/2023				6.43		5.71
8/15/2023	5.2	7	6.84		5.78	5
8/16/2023				5.55		
2/20/2024		5.99	6.78	5.81	5.97	5.32
2/23/2024	5.3					
8/20/2024		6	6.6	6.07		
8/21/2024	5.29				6	5.38
2/25/2025	6.26	6.07	6.55	5.45	5.81	5.07

Time Series

Constituent: pH, Field (SU) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	5.75				
8/31/2016		6.01	7.15		
9/1/2016				6.19	
11/14/2016	5.59		6.96		
11/15/2016		5.91			
11/16/2016				6.05	
2/24/2017	5.49				
2/27/2017			6.79	6.01	
2/28/2017		5.85			
5/8/2017	5.58	5.91		6.1	
5/9/2017			6.9		
7/11/2017	5.58				
7/13/2017		5.8	6.77	6.07	
10/10/2017	5.49	5.76	6.9		
10/11/2017				5.93	
4/2/2018	6.3				
4/3/2018			6.44		
4/4/2018		5.77		6.01	
9/19/2018	5.48	5.77	6.47	6.09	
3/27/2019	5.83	6.1	7.18	6.2	
8/20/2019	5.58	5.78	6.48		
8/21/2019				5.82	
10/8/2019	5.59	5.84			
10/9/2019			6.55	5.96	
3/17/2020	5.57	5.9	6.69	5.99 (D)	
7/6/2020				6.89	
8/27/2020	4.88	5.75			5.8
8/28/2020			6.84	7.05	
9/22/2020	5.46	5.53			5.91
9/23/2020			6.57	6.81	
10/7/2020				7.06	5.87
11/12/2020				7.02	5.93
3/1/2021	5.48	5.76	6.5		5.84
3/2/2021				6.72	
8/19/2021	5.5	5.73	6.13		
8/20/2021			6.13		6.71
8/27/2021				6.83	
2/8/2022	5.4				
2/9/2022		5.73	6.15	6.98	5.99
8/31/2022	5.32	5.77	6.56	6.87	5.58
2/8/2023	5.22	5.6			
2/9/2023			6.47		
2/10/2023				7.32	6
8/15/2023	5.69	5.79	6.97	7.51	6.05
2/20/2024	5.62				
2/21/2024		5.82	6.35	7.51	5.74
8/20/2024	5.48				
8/21/2024		5.8	6.54	7.41	
8/22/2024					6.01
2/25/2025	5.52				
2/26/2025		5.78	6.63	6.85	5.97

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	<0.005					
9/12/2007	<0.005					
3/20/2008	<0.005					
8/27/2008	<0.005					
3/3/2009	<0.005					
11/18/2009	<0.005					
3/3/2010	<0.005					
9/8/2010	<0.005					
3/10/2011	<0.005					
9/8/2011	<0.005					
3/5/2012	<0.005					
9/10/2012	<0.005					
2/6/2013	<0.005					
8/12/2013	<0.005					
2/5/2014	<0.005					
8/5/2014	<0.005					
2/4/2015	<0.005					
8/3/2015	<0.005					
2/16/2016	<0.005					
6/1/2016		<0.005	<0.005			<0.005
6/2/2016					<0.005	
7/21/2016	<0.005					
7/25/2016			<0.005			<0.005
7/26/2016		<0.005			<0.005	
8/31/2016	<0.005					
9/13/2016		<0.005	<0.005			
9/14/2016				<0.005		<0.005
9/15/2016					<0.005	
11/1/2016		<0.005			<0.005	<0.005
11/4/2016			<0.005	<0.005		
11/28/2016	<0.005					
12/15/2016				<0.005		
1/11/2017		<0.005			<0.005	<0.005
1/16/2017			<0.005	<0.005		
2/22/2017	<0.005					
3/1/2017						<0.005
3/2/2017		<0.005	<0.005		<0.005	
3/3/2017				<0.005		
4/26/2017					<0.005	<0.005
4/27/2017		<0.005	<0.005			
4/28/2017				<0.005		
5/8/2017	<0.005					
5/26/2017				<0.005		
6/27/2017		<0.005	<0.005			
6/28/2017				<0.005	<0.005	<0.005
7/17/2017	<0.005					
10/16/2017	<0.005					
2/19/2018	<0.005					
3/27/2018			<0.005			
3/28/2018				<0.005	<0.005	<0.005
3/29/2018		<0.005				
8/6/2018	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/25/2019	<0.005					
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005
3/28/2019		<0.005	<0.005			
3/29/2019				<0.005		
4/1/2019					<0.005	<0.005
6/12/2019	<0.005					
8/19/2019	<0.005					
9/24/2019		<0.005	<0.005	<0.005		
9/25/2019					<0.005	<0.005
10/8/2019	<0.005					
2/10/2020		<0.005	<0.005			
2/11/2020				<0.005		<0.005
2/12/2020					<0.005	
3/17/2020	<0.005					
3/18/2020			<0.005			
3/19/2020		<0.005		<0.005	<0.005	<0.005
8/26/2020	<0.005					
9/22/2020	<0.005					
9/23/2020		<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021				<0.005	<0.005	<0.005
2/12/2021		<0.005	<0.005			
3/2/2021	<0.005					
3/3/2021		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005	<0.005		<0.005	
8/20/2021	<0.005					
8/27/2021				<0.005		<0.005
2/8/2022	<0.005					
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2022	<0.005	<0.005		<0.005		
8/31/2022			<0.005		<0.005	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005		
2/8/2023					<0.005	<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
8/16/2023						<0.005
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005
2/25/2025		<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 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.005	<0.005	<0.005	0.0011 (J)		
6/6/2016						<0.005
6/7/2016					0.001 (J)	
7/26/2016	0.0009 (J)	<0.005	0.0009 (J)	0.0016 (J)		
7/27/2016					0.0012 (J)	<0.005
9/14/2016	<0.005	<0.005	<0.005			
9/15/2016				0.0014 (J)		
9/16/2016					0.0015 (J)	
9/19/2016						<0.005
11/2/2016	<0.005	<0.005		<0.005		
11/3/2016					0.0015 (J)	<0.005
11/4/2016			<0.005			
1/10/2017				0.0012 (J)		
1/11/2017					0.0014 (J)	<0.005
1/12/2017		<0.005	<0.005			
1/13/2017	<0.005					
3/1/2017						<0.005
3/2/2017					0.0017 (J)	
3/6/2017	<0.005					
3/7/2017		<0.005	<0.005			
3/8/2017				<0.005		
4/26/2017				<0.005		<0.005
5/1/2017	<0.005	<0.005				
5/2/2017			<0.005		<0.005	
6/27/2017		<0.005	<0.005			
6/28/2017						<0.005
6/29/2017	<0.005				<0.005	
6/30/2017				<0.005		
3/27/2018				<0.005		
3/28/2018					<0.005	<0.005
3/29/2018	<0.005	<0.005	<0.005			
6/6/2018		<0.005				
6/7/2018	<0.005		<0.005			<0.005
6/11/2018					<0.005	
9/25/2018					<0.005	<0.005
9/26/2018	<0.005	<0.005	<0.005			
2/26/2019				<0.005		
3/4/2019	<0.005	<0.005	<0.005			
3/5/2019					<0.005	
3/6/2019						<0.005
3/29/2019				0.0019 (J)		
4/2/2019					<0.005	
4/3/2019	<0.005	<0.005	<0.005			<0.005
9/24/2019		<0.005	<0.005			
9/25/2019	<0.005			<0.005	<0.005	
9/26/2019						<0.005
2/11/2020					<0.005	<0.005
2/12/2020	<0.005	<0.005	<0.005	<0.005		
3/18/2020				<0.005		
3/24/2020		<0.005	<0.005		<0.005	<0.005
3/25/2020	<0.005					
9/22/2020	<0.005	<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
9/23/2020					<0.005	<0.005
9/25/2020				<0.005		
2/8/2021		<0.005	<0.005			
2/9/2021	<0.005				<0.005	<0.005
2/10/2021				<0.005		
3/2/2021		<0.005	<0.005	<0.005		
3/3/2021	0.0019 (J)				<0.005	<0.005
8/19/2021				<0.005		
8/26/2021	<0.005	<0.005	<0.005			
8/27/2021					<0.005	<0.005
2/9/2022					<0.005	<0.005
2/10/2022		<0.005	<0.005	0.0014 (J)		
2/11/2022	<0.005					
8/30/2022		<0.005	<0.005		<0.005	<0.005
8/31/2022	<0.005			<0.005		
2/7/2023		<0.005			<0.005	<0.005
2/8/2023				<0.005		
2/9/2023	<0.005		<0.005			
8/15/2023	<0.005	<0.005	<0.005	0.0014 (J)	<0.005	<0.005
2/20/2024	<0.005	<0.005	<0.005		<0.005	<0.005
2/23/2024				0.001 (J)		
8/20/2024	<0.005	<0.005	<0.005	0.0012 (J)	<0.005	<0.005
2/25/2025	<0.005	<0.005	<0.005	0.0014 (J)	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.005		
6/6/2016	<0.005					
6/7/2016		<0.005	0.00048 (J)			
7/25/2016				<0.005		
7/27/2016	<0.005	<0.005				
7/28/2016			<0.005			
9/16/2016	<0.005					
9/19/2016		<0.005	0.0014 (J)	<0.005		
11/1/2016				<0.005		
11/2/2016		<0.005				
11/3/2016	<0.005		<0.005			
1/11/2017	<0.005					
1/13/2017		<0.005	<0.005			
1/16/2017				<0.005		
2/21/2017				<0.005		
3/1/2017	<0.005					
3/6/2017		<0.005	<0.005			
4/26/2017	<0.005	<0.005	<0.005	<0.005		
6/28/2017	<0.005					
6/29/2017		<0.005	<0.005			
6/30/2017				<0.005		
10/11/2017					<0.005	
10/12/2017						<0.005
11/20/2017					<0.005	0.0042 (J)
1/10/2018						0.0043 (J)
1/11/2018					<0.005	
2/19/2018						<0.005
2/20/2018					<0.005	
3/27/2018				<0.005		
3/28/2018	<0.005					
3/29/2018		<0.005	<0.005			
4/3/2018					<0.005	<0.005
6/5/2018			<0.005			
6/6/2018		<0.005				
6/11/2018	<0.005					
6/28/2018					<0.005	0.0032 (J)
8/7/2018					<0.005	0.0031 (J)
9/24/2018					0.0015 (J)	0.0026 (J)
9/25/2018	<0.005	<0.005	<0.005			
2/26/2019				<0.005		
3/5/2019	<0.005	<0.005	<0.005			
4/1/2019				<0.005		
4/2/2019			<0.005			
4/3/2019	<0.005	<0.005				
8/21/2019					<0.005	0.0024 (J)
9/24/2019			<0.005			
9/25/2019		<0.005		<0.005		
9/26/2019	<0.005					
10/9/2019					<0.005	0.0026 (J)
2/11/2020	<0.005					
2/12/2020		<0.005	<0.005	<0.005	<0.005	0.002 (J)
3/19/2020				<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/24/2020	<0.005	<0.005	<0.005			0.002 (J)
3/25/2020					<0.005	
9/23/2020	<0.005					
9/24/2020		<0.005	<0.005	<0.005	<0.005	0.0016 (J)
2/9/2021	<0.005	<0.005	<0.005			
2/10/2021					<0.005	<0.005
2/11/2021				<0.005		
3/1/2021				<0.005		
3/3/2021	<0.005	<0.005				
3/4/2021			<0.005		<0.005	<0.005
8/19/2021				<0.005		
8/26/2021	<0.005				<0.005	
8/27/2021		<0.005				
9/1/2021			<0.005			
9/3/2021						<0.005
2/8/2022					<0.005	0.0014 (J)
2/9/2022	<0.005	<0.005	<0.005			
2/11/2022				<0.005		
8/30/2022	<0.005		<0.005			
8/31/2022		<0.005		<0.005	<0.005	<0.005
2/7/2023	<0.005	<0.005	<0.005		<0.005	
2/8/2023				<0.005		<0.005
8/15/2023	<0.005	<0.005	<0.005		<0.005	<0.005
8/16/2023				<0.005		
2/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024	<0.005					
8/20/2024		<0.005	<0.005	<0.005		
8/21/2024	<0.005				<0.005	<0.005
2/25/2025	<0.005	<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 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	0.0017 (J)				
8/31/2016		<0.005	<0.005		
9/1/2016				<0.005	
11/14/2016	<0.005		<0.005		
11/15/2016		<0.005			
11/16/2016				<0.005	
2/24/2017	0.0011 (J)				
2/27/2017			<0.005	<0.005	
2/28/2017		<0.005			
5/8/2017	<0.005	<0.005		<0.005	
5/9/2017			<0.005		
7/11/2017	<0.005				
7/13/2017		<0.005	<0.005	<0.005	
10/10/2017	<0.005	<0.005	<0.005		
10/11/2017				<0.005	
4/2/2018	<0.005				
4/3/2018			<0.005		
4/4/2018		<0.005		<0.005	
9/19/2018	<0.005	<0.005	<0.005	<0.005	
8/20/2019	<0.005	<0.005	<0.005		
8/21/2019				<0.005	
7/6/2020				<0.005	
8/27/2020	<0.005	<0.005			<0.005
8/28/2020			<0.005	<0.005	
11/12/2020				<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		
8/20/2021					<0.005
8/27/2021				<0.005	
2/8/2022	<0.005				
2/9/2022		<0.005	<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023	<0.005	<0.005			
2/9/2023			<0.005		
2/10/2023				<0.005	<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005				
2/21/2024		<0.005	<0.005	<0.005	<0.005
8/20/2024	<0.005				
8/21/2024		<0.005	<0.005	<0.005	
8/22/2024					<0.005
2/25/2025	<0.005				
2/26/2025		<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 7:39 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		5	4.2			12
6/2/2016					5.8	
7/25/2016			3.7			8.4
7/26/2016		5.4			6.7	
8/31/2016	29					
9/13/2016		2.9	5.2			
9/14/2016				9.4		8.6
9/15/2016					6	
11/1/2016		3.9			4.9	8.9
11/4/2016			5	13		
11/28/2016	36					
12/15/2016				1.8		
1/11/2017		3.7			4.5	8.6
1/16/2017			7.9	11		
2/22/2017	43					
3/1/2017						9.3
3/2/2017		4.6	7.4		4.4	
3/3/2017				8.8		
4/26/2017					5.1	11
4/27/2017		5.2	7.4			
4/28/2017				10		
5/8/2017	60					
5/26/2017				12		
6/27/2017		5.9	6.4			
6/28/2017				11	5.4	12
7/17/2017	63					
10/3/2017		6.6	5.9	7.9		
10/4/2017					6.2	12
10/16/2017	62					
2/19/2018	64.6					
6/5/2018		6.4				
6/6/2018			4.4			
6/7/2018				8.8	6.7	
6/8/2018						9.6
8/6/2018	42.1					
10/1/2018		5.6	4	9.1	7.1	9.1
2/25/2019	42.1					
3/28/2019		8	4.3			
3/29/2019				9		
4/1/2019					7.2	8.5
6/12/2019	83.4					
9/24/2019		5.3	4.3	9.1		
9/25/2019					7	13.8
10/8/2019	128					
3/17/2020	98.6					
3/18/2020			5.3			
3/19/2020		10		12.4	9	12.9
9/22/2020	145					
9/23/2020		8.1	3.4	11.8	6.9	16.8
3/2/2021	156					
3/3/2021		9	4.4	10.6	7	9.6
8/19/2021		8.9	4.9		7.5	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/20/2021	121					
8/27/2021				16.7		18.2
2/8/2022	107					
2/9/2022		9.3	5.1	18	7.2	16
8/30/2022	101	10.2		20.1		
8/31/2022			4.8		6.9	13.9
2/7/2023	82.4	10.6	6.6	17.8		
2/8/2023					7.5	14.7
8/15/2023	74.2	9.6	4.6	17.2	6.8	
8/16/2023						20.3
2/20/2024	75	9.7	4.3	23.1	7	13.8
8/20/2024		12.2	4.9	21.3	7.7	13.7
2/25/2025		10.4	3.5	13.8	6.7	10.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	8	20	1.9	6.6		
6/6/2016						1.2
6/7/2016					4.4	
7/26/2016	7.7	20	1.8	6.1		
7/27/2016					4.7	1.7
9/14/2016	7.5	19	1.8			
9/15/2016				6.1		
9/16/2016					4.8	
9/19/2016						1.8
11/2/2016	8.2	20		6.3		
11/3/2016					5.3	0.69 (J)
11/4/2016			2			
1/10/2017				5.9		
1/11/2017					5.2	0.99 (J)
1/12/2017		19	1.9			
1/13/2017	8.1					
3/1/2017						1.8
3/2/2017					5	
3/6/2017	8					
3/7/2017		20	2.1			
3/8/2017				7		
4/26/2017				7		1.6
5/1/2017	8.4	20				
5/2/2017			2		5	
6/27/2017		18	2.1			
6/28/2017						1.7
6/29/2017	9.2				5.2	
6/30/2017				6.5		
10/3/2017		16	2.3			
10/4/2017					5.3	
10/5/2017	9.6			7.9		1.6
6/6/2018		8.3				
6/7/2018	8.5		2			0.68 (J)
6/8/2018				6.4		
6/11/2018					5.2	
9/25/2018					6.1	1
9/26/2018	10.2	7.9	2.3			
10/1/2018				6.8		
3/29/2019				7.3		
4/2/2019					5.1	
4/3/2019	8.5	7	2.1			0.82 (J)
9/24/2019		5.5	2.4			
9/25/2019	8.5			6.6	5.5	
9/26/2019						0.64 (J)
10/10/2019	9.2	<1	1.8		5.5	
3/18/2020				8.1		
3/24/2020		5.9	2.1		5.4	<1
3/25/2020	8.8					
9/22/2020	8.2	5.5	2.1			
9/23/2020					5.1	0.53 (J)
9/25/2020				6.1		
3/2/2021		2.6	2.3	6		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
3/3/2021	7.8				5.2	<1
8/19/2021				6.7		
8/26/2021	8.5	6	2.4			
8/27/2021					5.3	0.59 (J)
2/9/2022					4.8	0.51 (J)
2/10/2022		4.9	2.4	6.2		
2/11/2022	7.7					
8/30/2022		5.7	2.4		4.7	0.78 (J)
8/31/2022	8			5.8		
2/7/2023		5.2			4.9	0.78 (J)
2/8/2023				6.1		
2/9/2023	8.9		2.9			
8/15/2023	7.5	4.8	2.2	6	4.6	0.51 (J)
2/20/2024	8.5	5.1	2.5		4.6	<1
2/23/2024				7.1		
8/20/2024	8.7	4.3	2.6	7.6	4.6	0.74 (J)
2/25/2025	7.4	4.6	2.2	6.5	3.6	<1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				1.3		
6/6/2016	1.8					
6/7/2016		<1	5.2			
7/25/2016				1.2		
7/27/2016	1.9	0.08 (J)				
7/28/2016			5.1			
9/16/2016	1.7					
9/19/2016		0.08 (J)	4.8	1.2		
11/1/2016				1.3		
11/2/2016		0.1 (J)				
11/3/2016	1.9		5			
1/11/2017	1.7					
1/13/2017		0.1 (J)	4.3			
1/16/2017				1.4		
2/21/2017				1.4		
3/1/2017	1.6					
3/6/2017		<1	4.5			
4/26/2017	1.9	<1	4.9	1.4		
6/28/2017	1.5					
6/29/2017		0.15 (J)	5.5			
6/30/2017				1.5		
10/3/2017			5.8			
10/4/2017	1.7	0.14 (J)		1.4		
10/11/2017					20	
10/12/2017						17
11/20/2017					24	71
1/10/2018						66
1/11/2018					23	
2/19/2018						57.2
2/20/2018					20.6	
4/3/2018					24.5	49.4
6/5/2018			6.1			
6/6/2018		0.049 (J)				
6/11/2018	0.95 (J)			1.1		
6/28/2018					22	43.8
8/7/2018					20.7	40.5
9/24/2018					21.2	39.7
9/25/2018	1.5	0.13 (J)	7			
10/2/2018				1		
3/26/2019						34.3
3/27/2019					17.7	
4/1/2019				0.96 (J)		
4/2/2019			3.8			
4/3/2019	1.3	0.12 (J)				
9/24/2019			1			
9/25/2019		<1		0.81 (J)		
9/26/2019	1					
10/9/2019					14.85 (D)	27.75 (D)
10/10/2019		0.058 (J)	3.6			
3/19/2020				1.6		
3/24/2020	0.99 (J)	<1	3			25.2
3/25/2020					14.3	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/23/2020	1.1					
9/24/2020		<1	3.6	0.69 (J)	11.7	22.9
3/1/2021				0.88 (J)		
3/3/2021	1	<1				
3/4/2021			4.5		12	21.5
8/19/2021				1		
8/26/2021	1.2				19.2	
8/27/2021		<1				
9/1/2021			5			
9/3/2021						21.3
2/8/2022					14.6	17.9
2/9/2022	1.1	<1	3.9			
2/11/2022				2.8		
8/30/2022	1.3		3.2			
8/31/2022		<1		1.1	10.9	17.9
2/7/2023	1.2	<1	3.8		9.7	
2/8/2023				0.96 (J)		17.5
8/15/2023	0.88 (J)	<1	4.1		7.6	16.4
8/16/2023				0.9 (J)		
2/20/2024		<1	3.8	0.69 (J)	8.6	17.2
2/23/2024	0.79 (J)					
8/20/2024		<1	4	0.74 (J)		
8/21/2024	1.1				6.6	18.2
2/25/2025	0.59 (J)	<1	3.3	0.74 (J)	6.5	15.4

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	160				
8/31/2016		150	190		
9/1/2016				770	
11/14/2016	150		200		
11/15/2016		150			
11/16/2016				780	
2/24/2017	120				
2/27/2017			190	650	
2/28/2017		130			
5/8/2017	120	150		770	
5/9/2017			190		
7/11/2017	110				
7/13/2017		150	180	630	
10/10/2017	93	140	180		
10/11/2017				540	
4/2/2018	88.8				
4/3/2018			183		
4/4/2018		137		430	
9/19/2018	75	137	192	395	
3/27/2019	65.9	146	188	437	
10/8/2019	52.3	142			
10/9/2019			183 (D)	<1	
3/17/2020	71.6	121	161	439	
7/6/2020				385	
8/27/2020					144
8/28/2020				394	
9/22/2020	51.5	130			156
9/23/2020			170	430	
10/7/2020				427	156
11/12/2020				385	147
3/1/2021	51.6	119	159		139
3/2/2021				387	
8/19/2021	52.6	115	149		
8/20/2021					122
8/27/2021				423	
2/8/2022	50.9				
2/9/2022		121	164	415	119
8/31/2022	48	130	177	459	122
2/8/2023	50.5	130			
2/9/2023			193		
2/10/2023				517	114
8/15/2023	47.7	113	154	419	96.5
2/20/2024	51				
2/21/2024		124	170	511	98.9
8/20/2024	53.9				
8/21/2024		121	166	518	
8/22/2024					87.1
2/25/2025	48.3				
2/26/2025		112	161	463	86.6

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		120	54			150
6/2/2016					130	
7/25/2016			48			135
7/26/2016		94			141	
8/31/2016	209					
9/13/2016		105	67			
9/14/2016				152		127
9/15/2016					153	
11/1/2016		44			92	75
11/4/2016			60	148		
11/28/2016	102					
12/15/2016				191		
1/11/2017		107			159	148
1/16/2017			65	180		
2/22/2017	164					
3/1/2017						182
3/2/2017		98	61		117	
3/3/2017				156		
4/26/2017					181	92
4/27/2017		116	31			
4/28/2017				130		
5/8/2017	145					
5/26/2017				223		
6/27/2017		89	42			
6/28/2017				166	169	126
7/17/2017	185					
10/3/2017		119	58	153		
10/4/2017					141	147
10/16/2017	218					
2/19/2018	173					
6/5/2018		127				
6/6/2018			96			
6/7/2018				146	95	
6/8/2018						158
8/6/2018	158					
10/1/2018		117	60	155	165	138
2/25/2019	92					
3/28/2019		87	87			
3/29/2019				150		
4/1/2019					149	19 (J)
6/12/2019	226					
9/24/2019		124	54	146		
9/25/2019					157	159
10/8/2019	276					
3/17/2020	185					
3/18/2020			35			
3/19/2020		116		148	146	148
9/22/2020	281					
9/23/2020		108	15	161	157	155
3/2/2021	296					
3/3/2021		99	39	138	137	111
8/19/2021		105	44		144	

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/20/2021	254					
8/27/2021				150		155
2/8/2022	283					
2/9/2022		105	57	156	154	145
8/30/2022	244	116		153		
8/31/2022			46		141	137
2/7/2023	207	131	121	159		
2/8/2023					144	145
8/15/2023	230	121	65	157	231	
8/16/2023						148
2/20/2024	214	130	59	159	294	220
8/20/2024		140	67	184	164	179
2/25/2025		121	47	156	147	136

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	96	160	66	46		
6/6/2016						120
6/7/2016					28	
7/26/2016	92	177	78	54		
7/27/2016					74	94
9/14/2016	102	187	73			
9/15/2016				54		
9/16/2016					67	
9/19/2016						92
11/2/2016	115	181		71		
11/3/2016					41	104
11/4/2016			75			
1/10/2017				45		
1/11/2017					104	133
1/12/2017		202	86			
1/13/2017	67					
3/1/2017						119
3/2/2017					77	
3/6/2017	159					
3/7/2017		257	108			
3/8/2017				178		
4/26/2017				52		162
5/1/2017	107	165				
5/2/2017			103		142	
6/27/2017		189	73			
6/28/2017						98
6/29/2017	79				53	
6/30/2017				45		
10/3/2017		170	89			
10/4/2017					61	
10/5/2017	95			40		104
6/6/2018		151				
6/7/2018	90		142			68
6/8/2018				114		
6/11/2018					70	
9/25/2018					86	109
9/26/2018	116	144	86			
10/1/2018				50		
3/29/2019				63		
4/2/2019					72	
4/3/2019	111	142	83			89
9/24/2019		129	79			
9/25/2019	117			64	81	
9/26/2019						126
3/18/2020				57		
3/24/2020		139	68		71	91
3/25/2020	146					
9/22/2020	83	104	75			
9/23/2020					99	103
9/25/2020				54		
3/2/2021		52	67	67		
3/3/2021	80				57	95

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
8/19/2021				54		
8/26/2021	93	123	86			
8/27/2021					93	112
2/9/2022					81	103
2/10/2022		127	77	56		
2/11/2022	102					
8/30/2022		148	86		81	100
8/31/2022	92			51		
2/7/2023		180			78	96
2/8/2023				56		
2/9/2023	124		59			
8/15/2023	99	219	76	69	74	96
2/20/2024	140	639 (O)	137		77	129
2/23/2024				64		
8/20/2024	128	212	108	81	86	128
2/25/2025	105	146	83	64	93	110

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				36		
6/6/2016	58					
6/7/2016		38	60			
7/25/2016				50		
7/27/2016	35	74				
7/28/2016			81			
9/16/2016	35					
9/19/2016		45	68	35		
11/1/2016				<25		
11/2/2016		53				
11/3/2016	48		61			
1/11/2017	95					
1/13/2017		46	76			
1/16/2017				47		
2/21/2017				<25		
3/1/2017	79					
3/6/2017		164	167			
4/26/2017	36	34	50	55		
6/28/2017	45					
6/29/2017		68	94			
6/30/2017				42		
10/3/2017			149			
10/4/2017	45	54		31		
10/11/2017					68	
10/12/2017						74
11/20/2017					139	179
1/10/2018						140
1/11/2018					153	
2/19/2018						119
2/20/2018					87	
4/3/2018					85	106
6/5/2018			109			
6/6/2018		79				
6/11/2018	74			59		
6/28/2018					88	112
8/7/2018					89	103
9/24/2018					82	107
9/25/2018	63	73	122			
10/2/2018				57		
3/26/2019						90
3/27/2019					75	
4/1/2019				54		
4/2/2019			134			
4/3/2019	63	57				
9/24/2019			157			
9/25/2019		75		51		
9/26/2019	72					
10/9/2019					119	98
3/19/2020				47		
3/24/2020	59	76	117			84
3/25/2020					158	
9/23/2020	81					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/24/2020		69	113	51	170	77
3/1/2021				23		
3/3/2021	37	53				
3/4/2021			110		168	57
8/19/2021				50		
8/26/2021	31				249	
8/27/2021		67				
9/1/2021			137			
9/3/2021						88
2/8/2022					248	93
2/9/2022	60	72	131			
2/11/2022				66		
8/30/2022	52		122			
8/31/2022		62		33	242	92
2/7/2023	55	89	163		224	
2/8/2023				43		115
8/15/2023	81	62	126		225	83
8/16/2023				48		
2/20/2024		164	156	55	233	109
2/23/2024	52					
8/20/2024		75	143	69		
8/21/2024	79				235	94
2/25/2025	69	69	110	51	228	86

Time Series

Constituent: TDS (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	319				
8/31/2016		332	402		
9/1/2016				1240	
11/14/2016	280		445		
11/15/2016		356			
11/16/2016				1220	
2/24/2017	162				
2/27/2017			346	1060	
2/28/2017		483			
5/8/2017	194	296		1160	
5/9/2017			388		
7/11/2017	193				
7/13/2017		345	433	996	
10/10/2017	175	311	396		
10/11/2017				835	
4/2/2018	192				
4/3/2018			418		
4/4/2018		313		1470	
9/19/2018	186	326	413	702	
3/27/2019	170	302	383	641	
10/8/2019	172	324			
10/9/2019			432	809	
3/17/2020	165	283	391	733	
7/6/2020				793	
8/27/2020					349
8/28/2020				838	
9/22/2020	141	294			296
9/23/2020			404	832	
10/7/2020				842	336
11/12/2020				760	317
3/1/2021	145	276	379		265
3/2/2021				782	
8/19/2021	134	333	391		
8/20/2021					289
8/27/2021				810	
2/8/2022	151				
2/9/2022		311	400	846	278
8/31/2022	116	343	445	948	266
2/8/2023	141	337			
2/9/2023			394		
2/10/2023				995	228
8/15/2023	186	319	404	945	267
2/20/2024	159				
2/21/2024		309	418	1100	274
8/20/2024	155				
8/21/2024		320	442	1060	
8/22/2024					232
2/25/2025	147				
2/26/2025		309	456	1030	205

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
5/1/2007	<0.001					
3/20/2008	<0.001					
8/27/2008	<0.001					
3/3/2009	<0.001					
11/18/2009	<0.001					
3/3/2010	<0.001					
9/8/2010	<0.001					
3/10/2011	<0.001					
9/8/2011	<0.001					
3/5/2012	<0.001					
9/10/2012	<0.001					
2/6/2013	<0.001					
8/12/2013	<0.001					
2/5/2014	<0.001					
8/5/2014	<0.001					
2/4/2015	<0.001					
2/16/2016	<0.001					
6/1/2016		<0.001	<0.001			<0.001
6/2/2016					<0.001	
7/21/2016	<0.001					
7/25/2016			<0.001			<0.001
7/26/2016		<0.001			0.0001 (J)	
8/31/2016	<0.001					
9/13/2016		<0.001	<0.001			
9/14/2016				<0.001		<0.001
9/15/2016					<0.001	
11/1/2016		<0.001			<0.001	<0.001
11/4/2016			<0.001	<0.001		
11/28/2016	<0.001					
12/15/2016				<0.001		
1/11/2017		<0.001			<0.001	<0.001
1/16/2017			<0.001	<0.001		
2/22/2017	<0.001					
3/1/2017						<0.001
3/2/2017		<0.001	<0.001		<0.001	
3/3/2017				<0.001		
4/26/2017					<0.001	<0.001
4/27/2017		<0.001	<0.001			
4/28/2017				<0.001		
5/8/2017	6E-05 (J)					
5/26/2017				<0.001		
6/27/2017		<0.001	<0.001			
6/28/2017				<0.001	<0.001	<0.001
7/17/2017	6E-05 (J)					
10/16/2017	7E-05 (J)					
2/19/2018	<0.001					
3/27/2018			<0.001			
3/28/2018				<0.001	<0.001	<0.001
3/29/2018		<0.001				
8/6/2018	<0.001					
2/25/2019	<0.001					
2/27/2019		<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 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/12/2019	<0.001					
8/19/2019	5.5E-05 (J)					
10/8/2019	<0.001					
2/10/2020		<0.001	5.5E-05 (J)			
2/11/2020				<0.001		<0.001
2/12/2020					<0.001	
3/17/2020	<0.001					
3/18/2020			<0.001			
3/19/2020		<0.001		<0.001	<0.001	<0.001
8/26/2020	<0.001					
9/22/2020	<0.001					
9/23/2020		<0.001	<0.001	<0.001	<0.001	0.00016 (J)
2/10/2021				<0.001	<0.001	<0.001
2/12/2021		<0.001	<0.001			
3/2/2021	<0.001					
8/20/2021	<0.001					
2/8/2022	<0.001					
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2022	<0.001	<0.001		<0.001		
8/31/2022			<0.001		<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001		
2/8/2023					<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
8/16/2023						<0.001
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001
2/25/2025		<0.001	<0.001	<0.001	0.00043 (J)	0.00053 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
6/2/2016	<0.001	<0.001	<0.001	<0.001		
6/6/2016						<0.001
6/7/2016					<0.001	
7/26/2016	<0.001	<0.001	<0.001	<0.001		
7/27/2016					<0.001	<0.001
9/14/2016	<0.001	<0.001	<0.001			
9/15/2016				<0.001		
9/16/2016					<0.001	
9/19/2016						<0.001
11/2/2016	<0.001	<0.001		<0.001		
11/3/2016					<0.001	<0.001
11/4/2016			<0.001			
1/10/2017				<0.001		
1/11/2017					<0.001	<0.001
1/12/2017		<0.001	<0.001			
1/13/2017	<0.001					
3/1/2017						<0.001
3/2/2017					<0.001	
3/6/2017	<0.001					
3/7/2017		<0.001	<0.001			
3/8/2017				<0.001		
4/26/2017				<0.001		<0.001
5/1/2017	<0.001	<0.001				
5/2/2017			<0.001		<0.001	
6/27/2017		<0.001	<0.001			
6/28/2017						<0.001
6/29/2017	<0.001				<0.001	
6/30/2017				<0.001		
3/27/2018				<0.001		
3/28/2018					<0.001	<0.001
3/29/2018	<0.001	<0.001	<0.001			
2/26/2019				<0.001		
3/4/2019	<0.001	<0.001	<0.001			
3/5/2019					<0.001	
3/6/2019						<0.001
4/2/2019					<0.001	
4/3/2019	<0.001	<0.001	<0.001			<0.001
9/24/2019		<0.001	<0.001			
9/25/2019	<0.001				<0.001	
9/26/2019						<0.001
2/11/2020					<0.001	<0.001
2/12/2020	<0.001	<0.001	<0.001	8.9E-05 (J)		
3/18/2020				<0.001		
3/24/2020		<0.001	<0.001		<0.001	<0.001
3/25/2020	<0.001					
9/22/2020	<0.001	<0.001	<0.001			
9/23/2020					<0.001	<0.001
9/25/2020				<0.001		
2/8/2021		<0.001	<0.001			
2/9/2021	<0.001				<0.001	<0.001
2/10/2021				<0.001		
2/9/2022					<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)
2/10/2022		<0.001	<0.001	<0.001		
2/11/2022	<0.001					
8/30/2022		<0.001	<0.001		<0.001	<0.001
8/31/2022	<0.001			<0.001		
2/7/2023		<0.001			<0.001	<0.001
2/8/2023				<0.001		
2/9/2023	<0.001		<0.001			
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001	<0.001		<0.001	<0.001
2/23/2024				<0.001		
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/25/2025	<0.001	<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 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/2/2016				<0.001		
6/6/2016	<0.001					
6/7/2016		<0.001	<0.001			
7/25/2016				<0.001		
7/27/2016	<0.001	<0.001				
7/28/2016			<0.001			
9/16/2016	<0.001					
9/19/2016		<0.001	<0.001	<0.001		
11/1/2016				<0.001		
11/2/2016		<0.001				
11/3/2016	<0.001		<0.001			
1/11/2017	<0.001					
1/13/2017		<0.001	<0.001			
1/16/2017				<0.001		
2/21/2017				<0.001		
3/1/2017	<0.001					
3/6/2017		<0.001	<0.001			
4/26/2017	<0.001	<0.001	<0.001	<0.001		
6/28/2017	<0.001					
6/29/2017		<0.001	<0.001			
6/30/2017				<0.001		
10/11/2017					<0.001	
10/12/2017						<0.001
11/20/2017					<0.001	<0.001
1/10/2018						<0.001
1/11/2018					<0.001	
2/19/2018						<0.001
2/20/2018					<0.001	
3/27/2018				<0.001		
3/28/2018	<0.001					
3/29/2018		<0.001	<0.001			
4/3/2018					<0.001	<0.001
6/28/2018					<0.001	<0.001
8/7/2018					<0.001	<0.001
9/24/2018					<0.001	<0.001
2/26/2019				<0.001		
3/5/2019	<0.001	<0.001	<0.001			
4/2/2019			<0.001			
4/3/2019	<0.001	<0.001				
8/21/2019					<0.001	<0.001
9/24/2019			<0.001			
9/25/2019		<0.001				
9/26/2019	<0.001					
2/11/2020	<0.001					
2/12/2020		<0.001	<0.001	<0.001	<0.001	<0.001
3/19/2020				<0.001		
3/24/2020	<0.001	<0.001	<0.001			<0.001
3/25/2020					<0.001	
9/23/2020	<0.001					
9/24/2020		<0.001	<0.001	<0.001	<0.001	<0.001
2/9/2021	<0.001	<0.001	<0.001			
2/10/2021					<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/2021				<0.001		
2/8/2022					<0.001	<0.001
2/9/2022	<0.001	<0.001	<0.001			
2/11/2022				<0.001		
8/30/2022	<0.001		<0.001			
8/31/2022		<0.001		<0.001	<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001		<0.001	
2/8/2023				<0.001		<0.001
8/15/2023	<0.001	<0.001	<0.001		<0.001	<0.001
8/16/2023				<0.001		
2/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024	<0.001					
8/20/2024		<0.001	<0.001	<0.001		
8/21/2024	<0.001				<0.001	<0.001
2/25/2025	<0.001	<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 5/20/2025 7:40 PM

Plant Yates Client: Southern Company Data: Yates AP-1

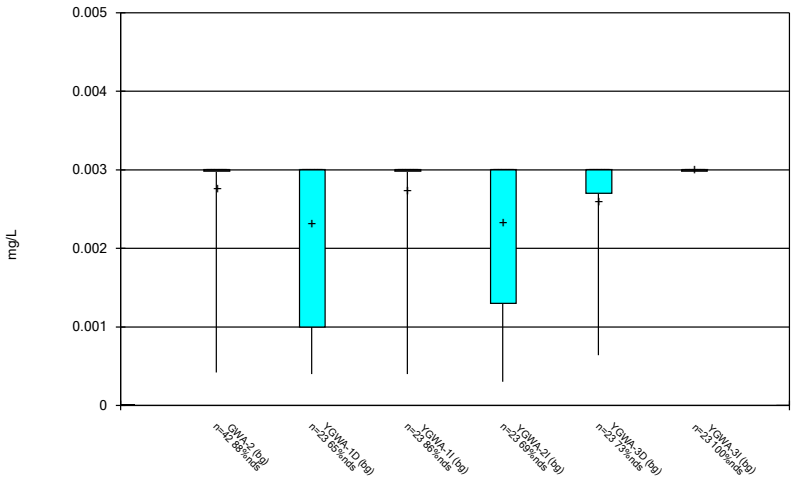
	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/30/2016	<0.001				
8/31/2016		<0.001	<0.001		
9/1/2016				<0.001	
11/14/2016	<0.001		<0.001		
11/15/2016		<0.001			
11/16/2016				<0.001	
2/24/2017	<0.001				
2/27/2017			<0.001	<0.001	
2/28/2017		<0.001			
5/8/2017	<0.001	<0.001		<0.001	
5/9/2017			<0.001		
7/11/2017	<0.001				
7/13/2017		<0.001	<0.001	<0.001	
10/10/2017	<0.001	<0.001	<0.001		
10/11/2017				<0.001	
4/2/2018	<0.001				
4/3/2018			<0.001		
4/4/2018		<0.001		<0.001	
9/19/2018	<0.001	<0.001	<0.001	<0.001	
8/20/2019	5.8E-05 (J)	<0.001	<0.001		
8/21/2019				<0.001	
10/8/2019	8.4E-05 (J)	<0.001			
10/9/2019			<0.001	<0.001	
3/17/2020	<0.001	8E-05 (J)	<0.001	<0.001	
7/6/2020				7.3E-05 (J)	
8/27/2020	<0.001	<0.001			<0.001
8/28/2020			<0.001	<0.001	
11/12/2020				<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001		
8/20/2021					<0.001
8/27/2021				<0.001	
2/8/2022	<0.001				
2/9/2022		<0.001	<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023	<0.001	<0.001			
2/9/2023			<0.001		
2/10/2023				<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001				
2/21/2024		<0.001	<0.001	<0.001	<0.001
8/20/2024	<0.001				
8/21/2024		<0.001	<0.001	<0.001	
8/22/2024					<0.001
2/25/2025	<0.001				
2/26/2025		<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

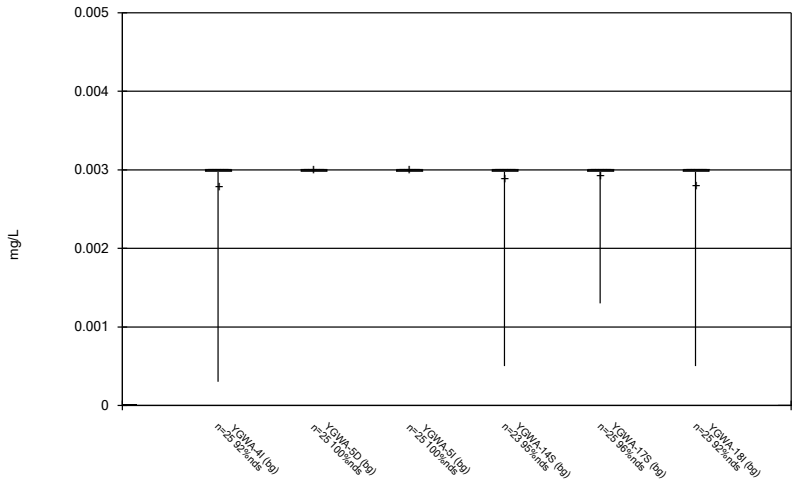
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

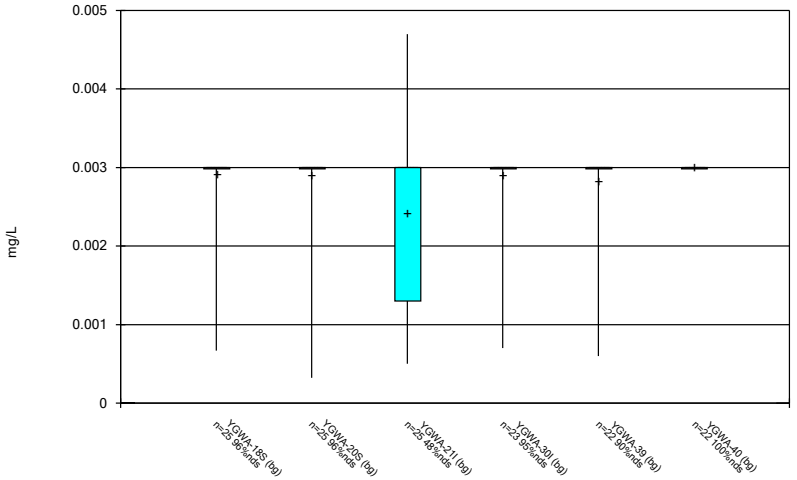
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

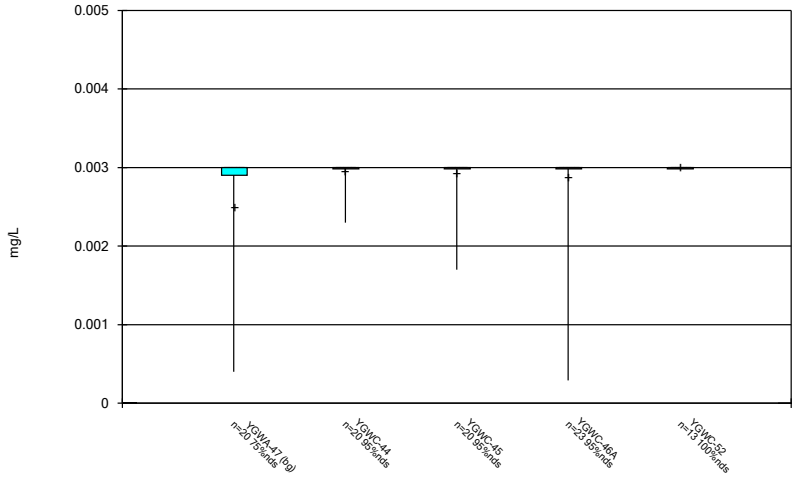
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

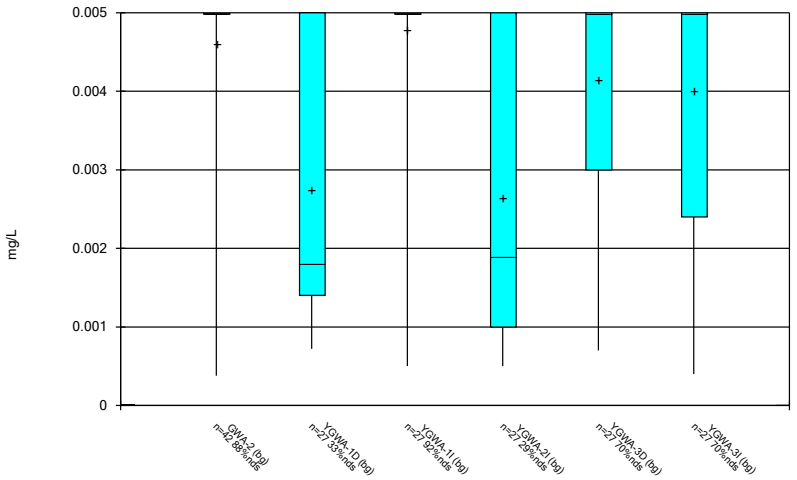
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

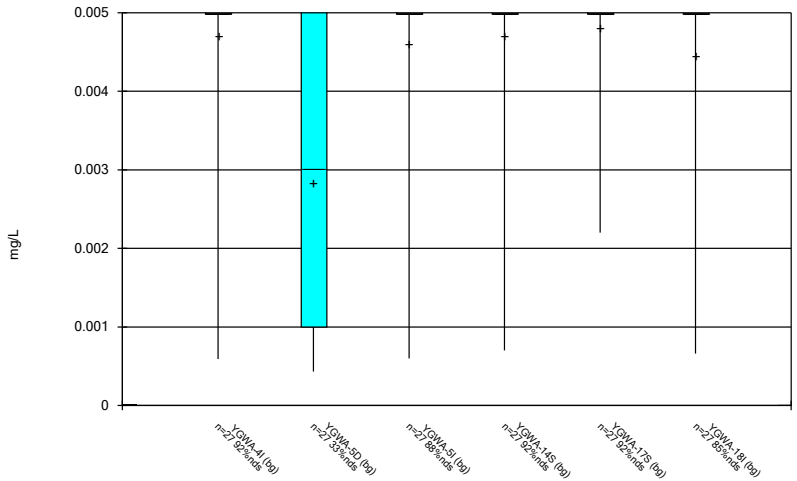
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

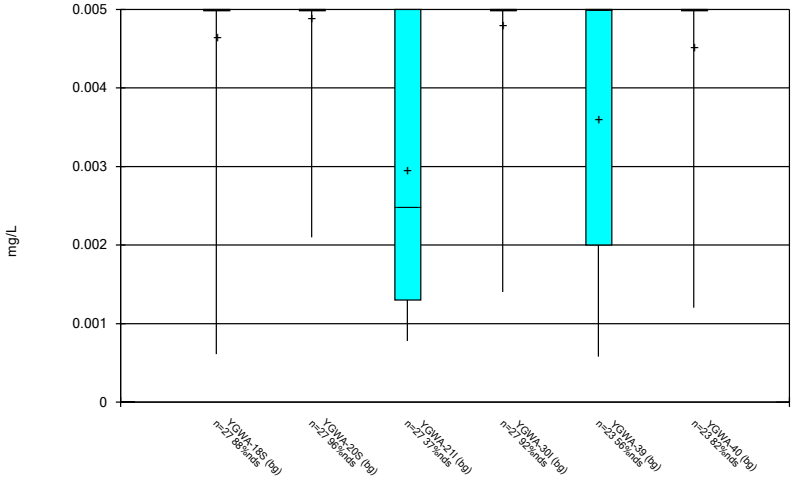
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

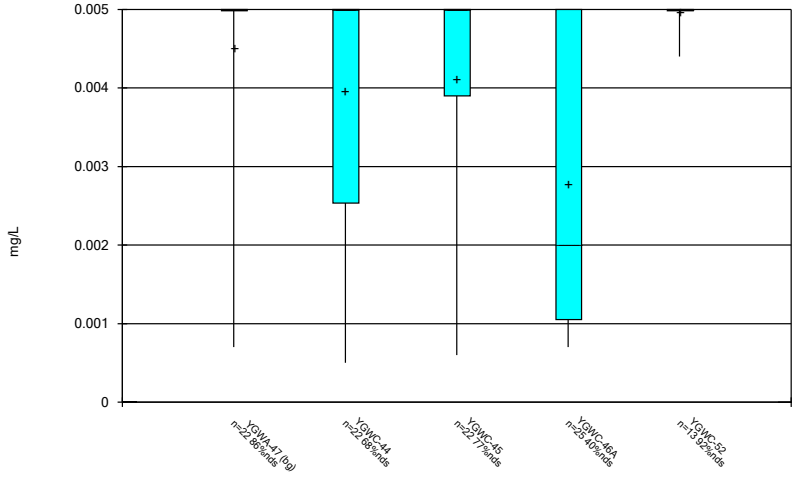
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

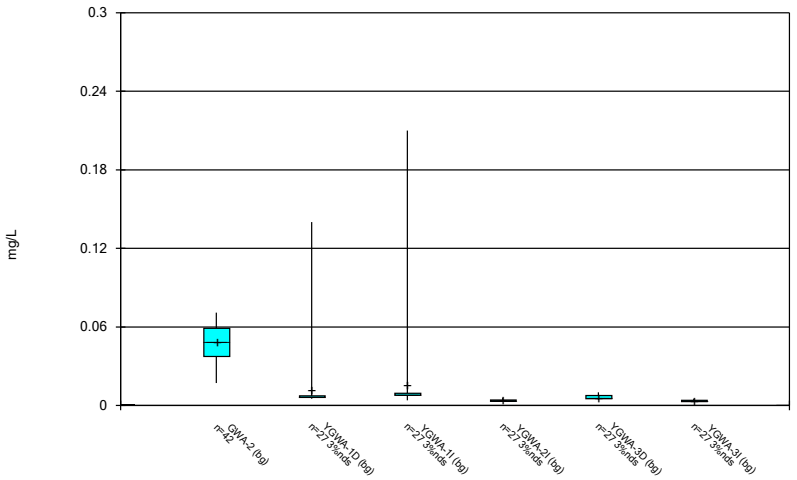
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

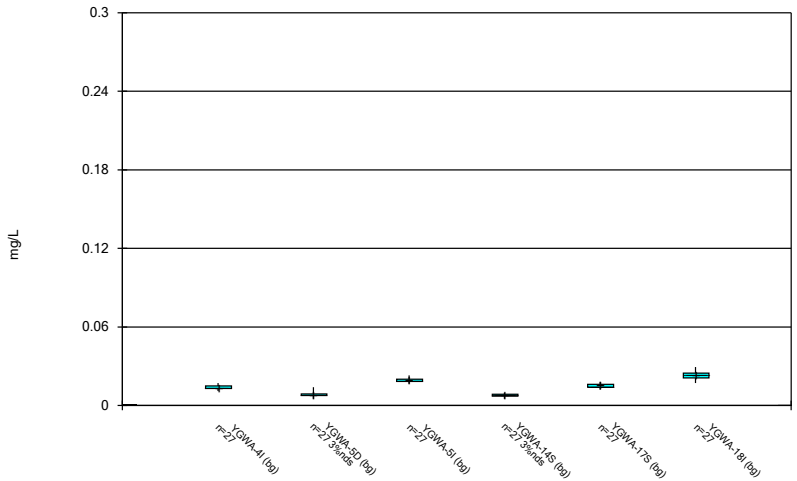
Box & Whiskers Plot



Constituent: Barium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

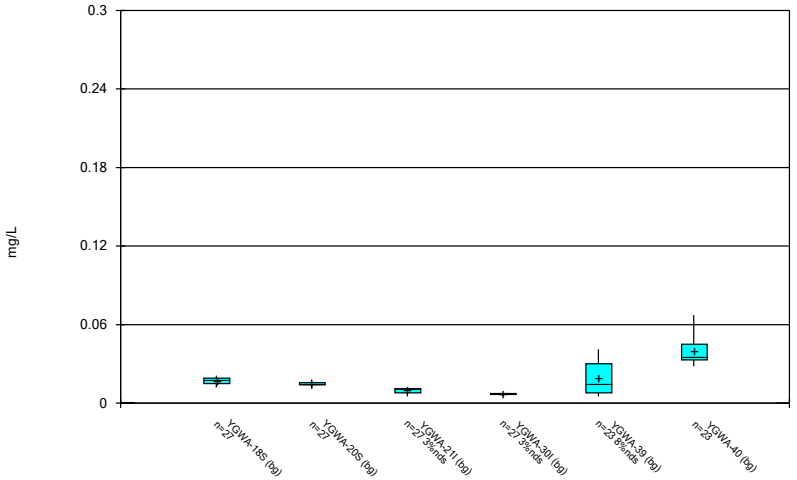
Box & Whiskers Plot



Constituent: Barium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

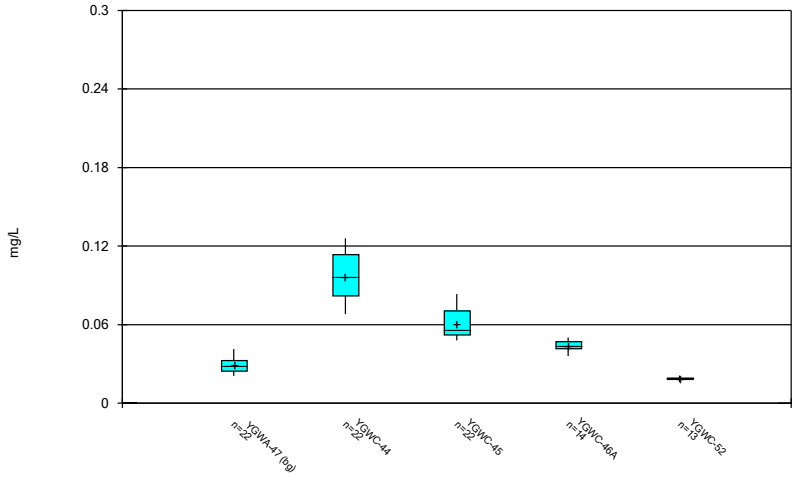
Box & Whiskers Plot



Constituent: Barium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

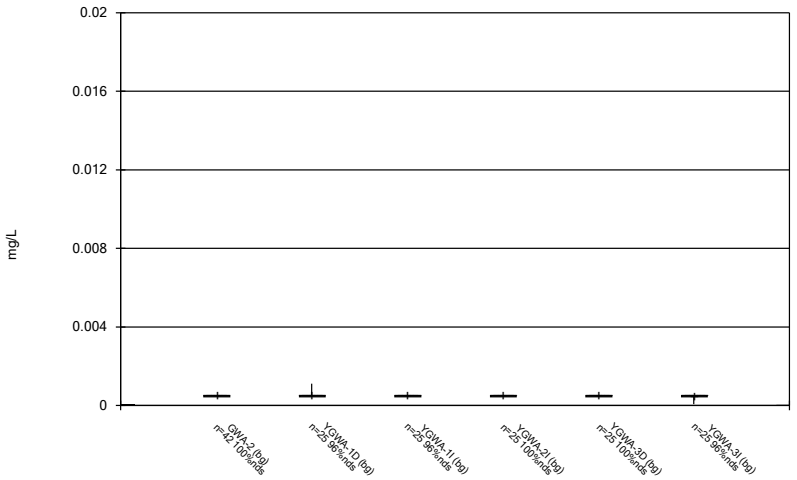
Box & Whiskers Plot



Constituent: Barium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

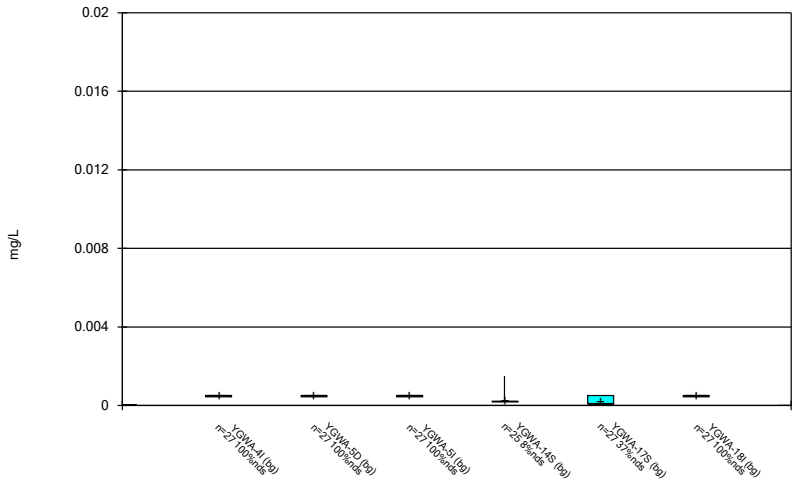
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

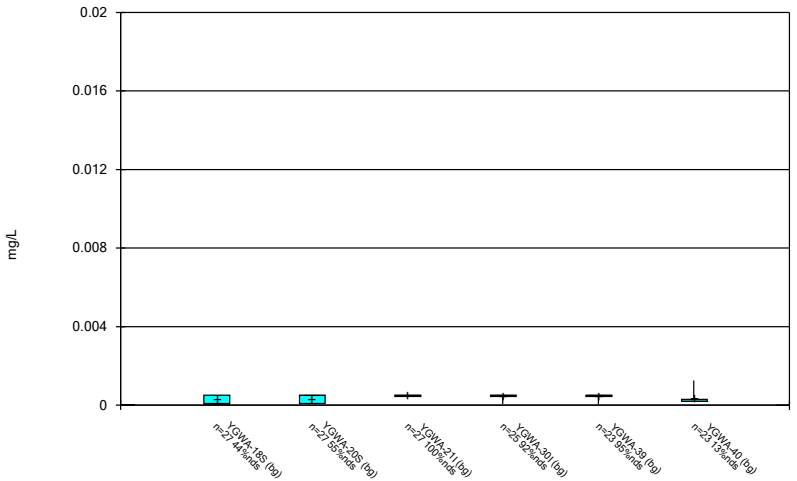
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

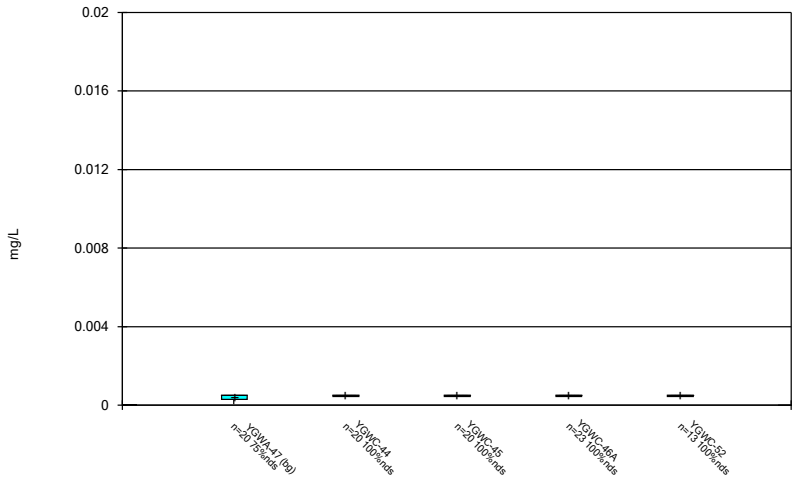
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

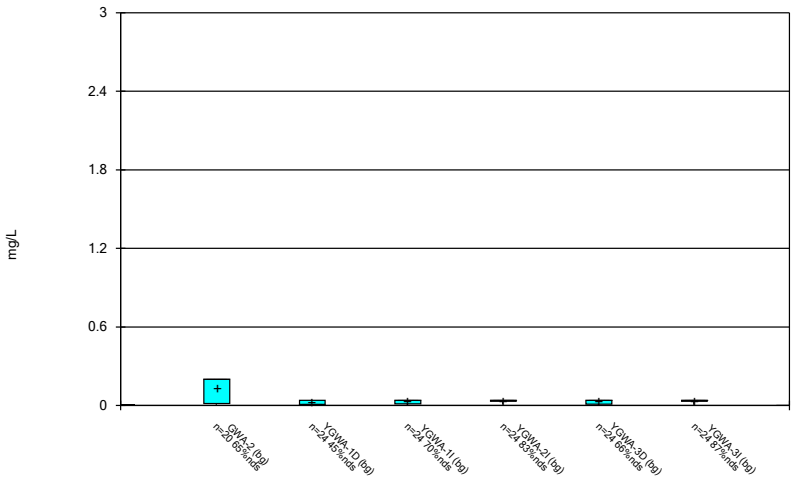
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

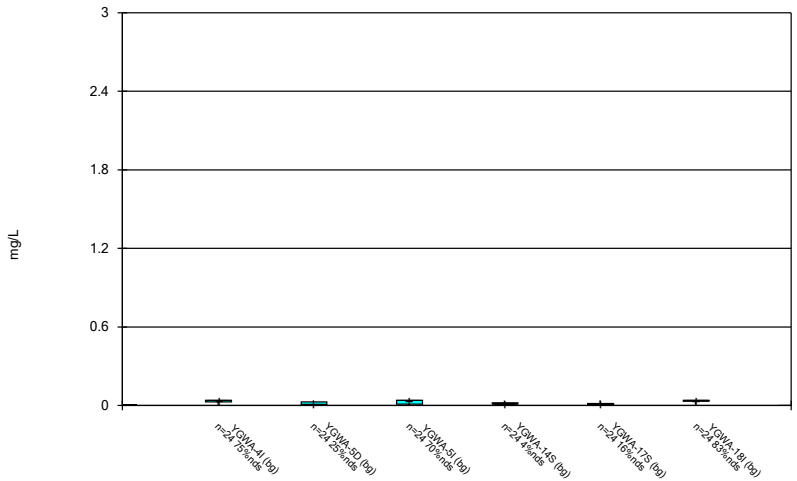


Constituent: Boron Analysis Run 5/20/2025 7:41 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

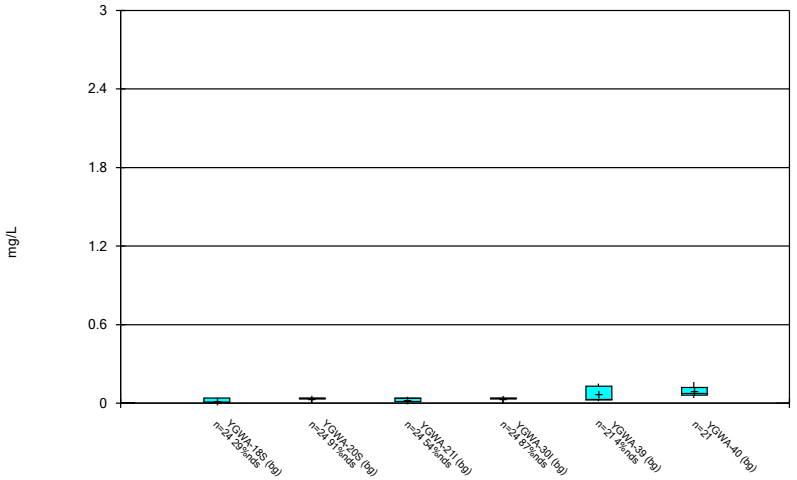


Constituent: Boron Analysis Run 5/20/2025 7:41 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

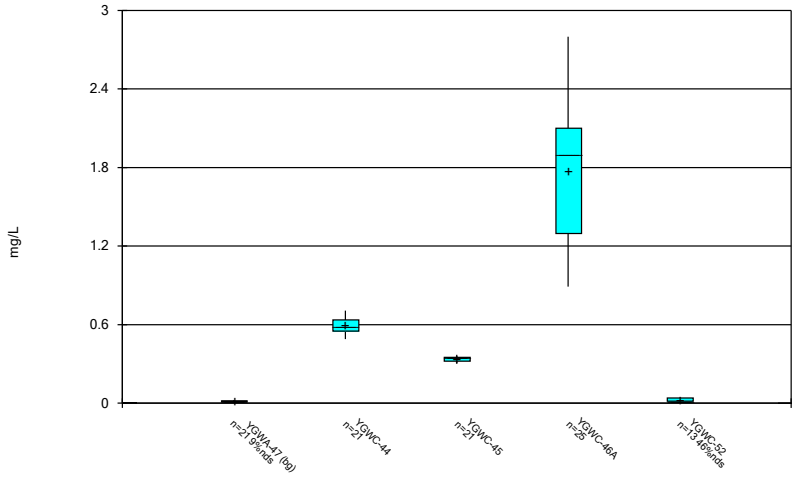


Constituent: Boron Analysis Run 5/20/2025 7:41 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

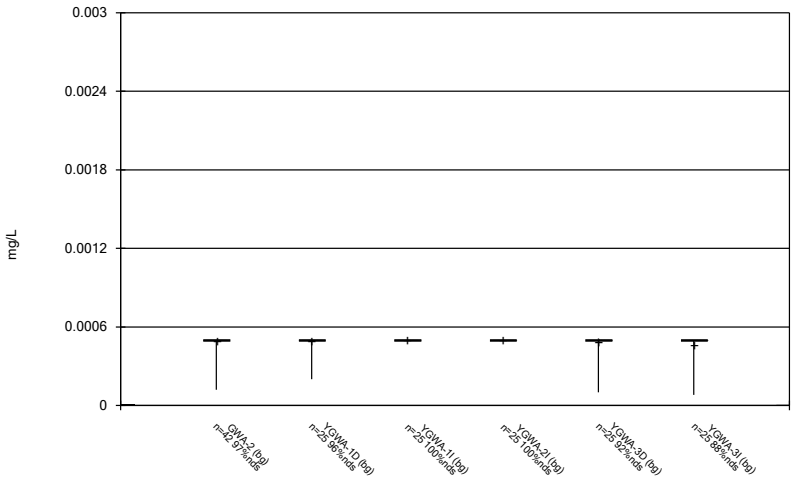


Constituent: Boron Analysis Run 5/20/2025 7:41 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

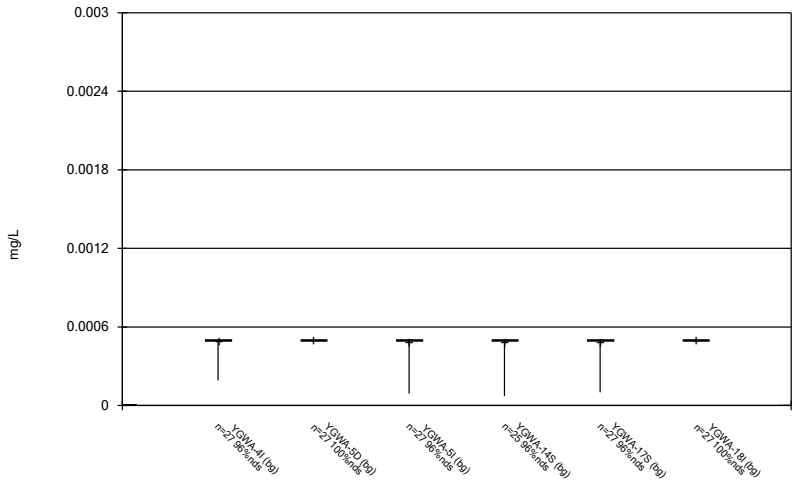
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

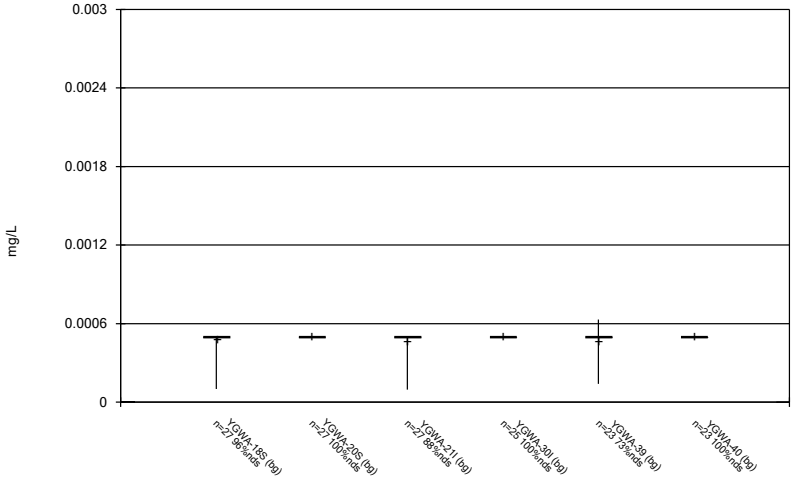
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

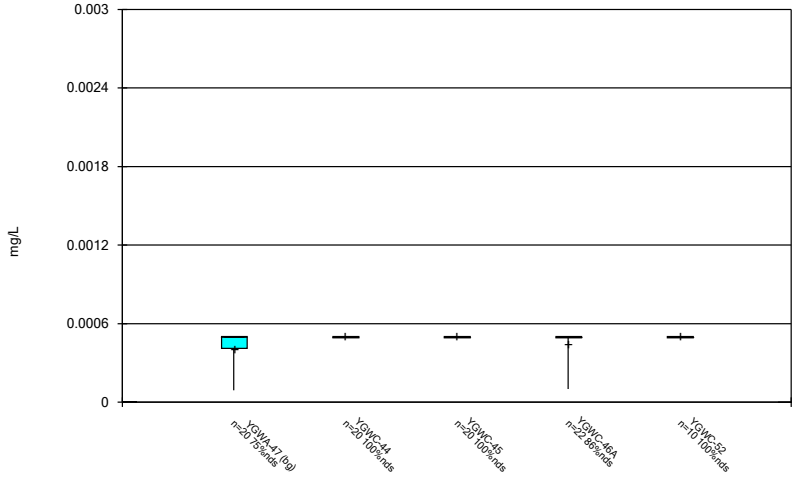
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/20/2025 7:41 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

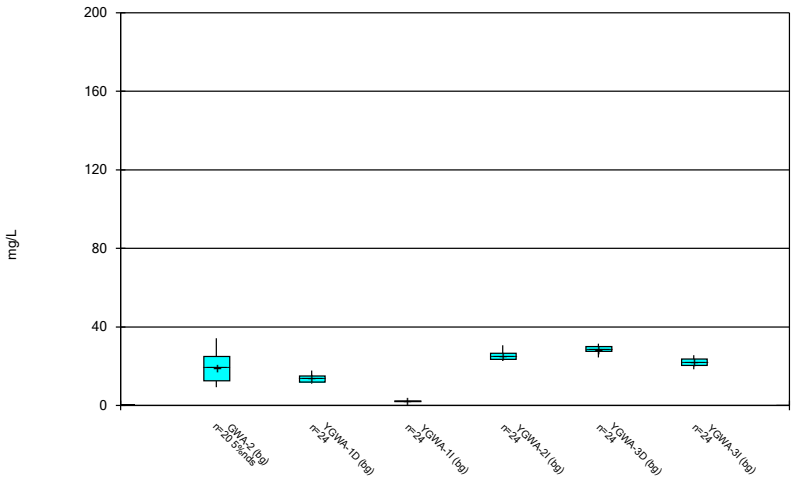
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

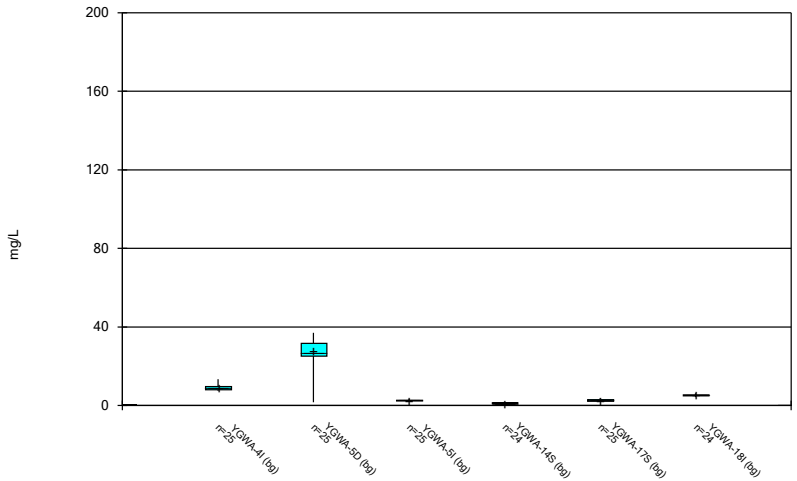
Box & Whiskers Plot



Constituent: Calcium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

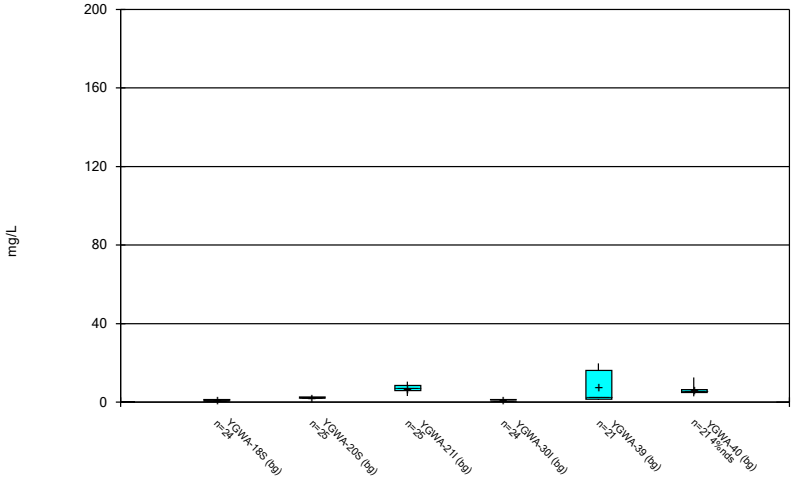
Box & Whiskers Plot



Constituent: Calcium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

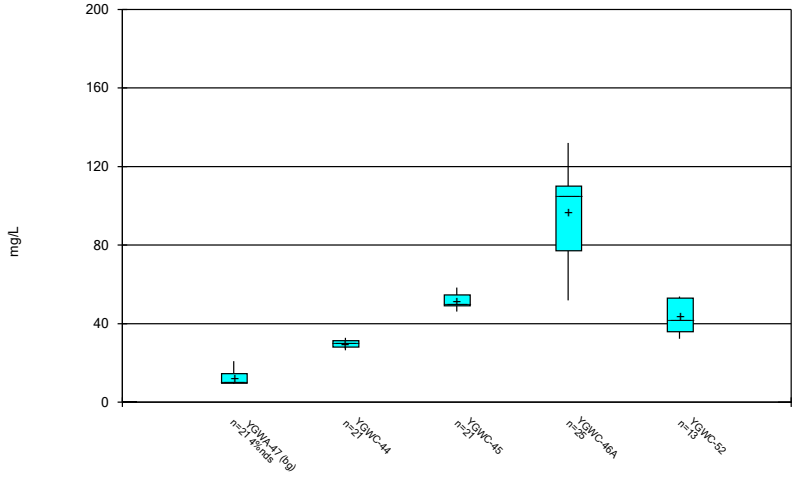
Box & Whiskers Plot



Constituent: Calcium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

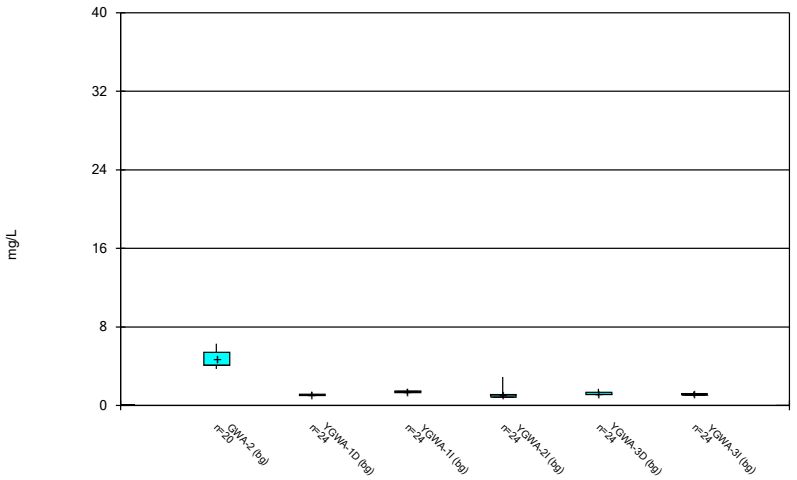
Box & Whiskers Plot



Constituent: Calcium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

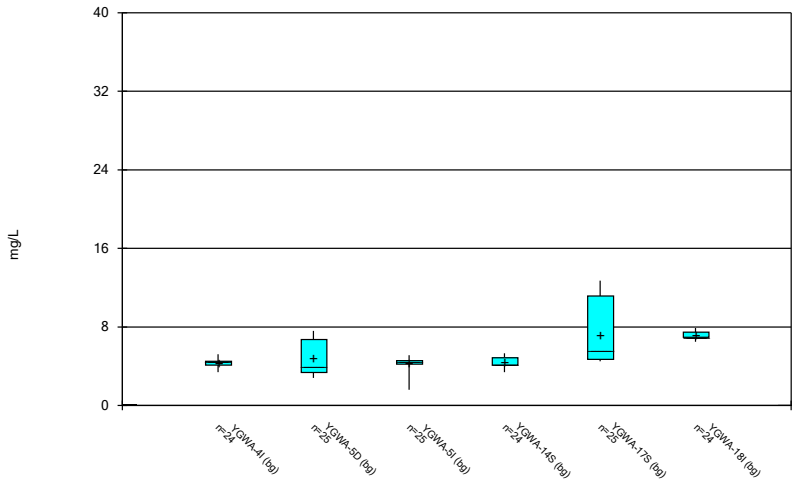
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

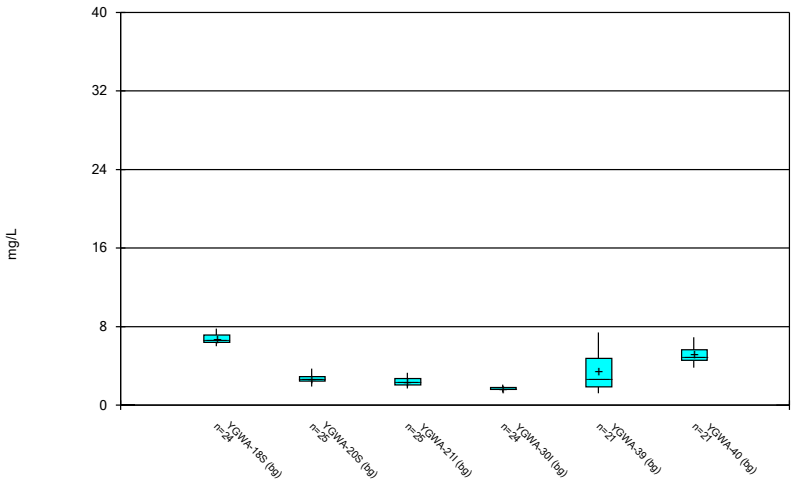
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

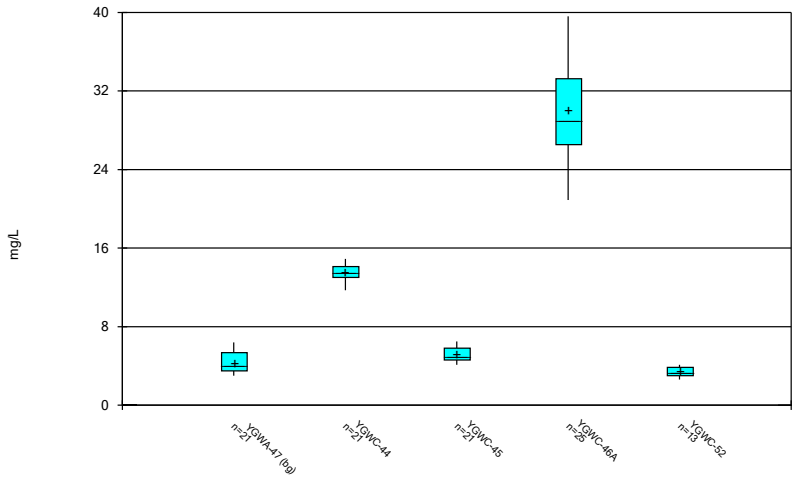
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

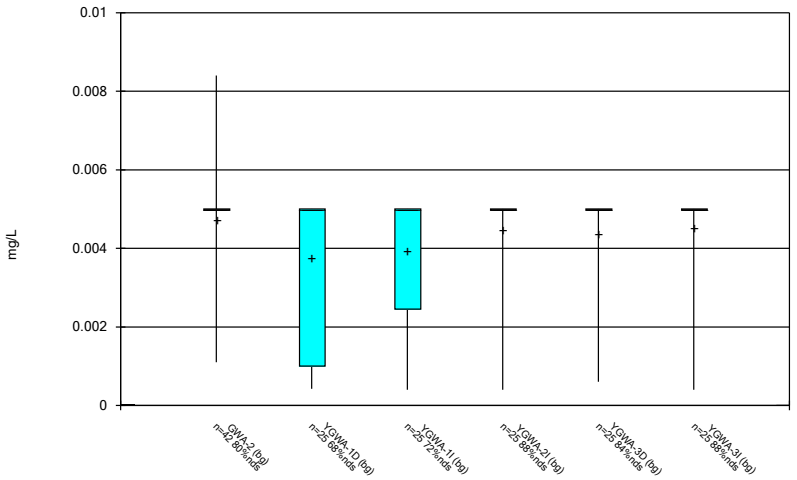
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

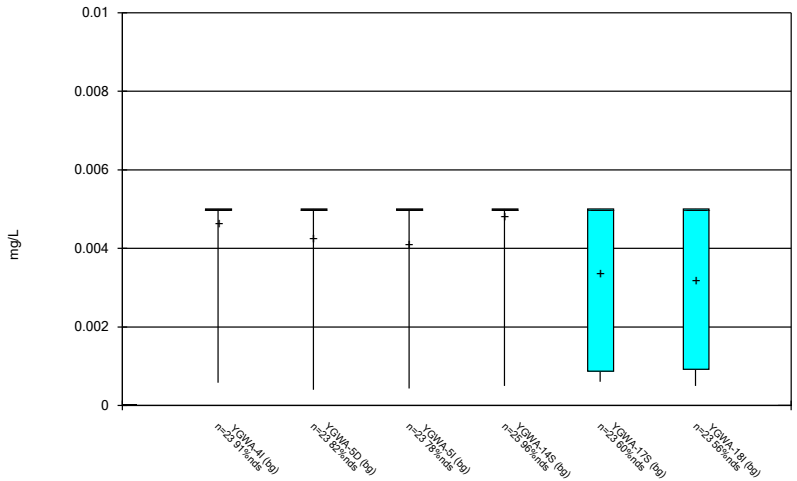
Box & Whiskers Plot



Constituent: Chromium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

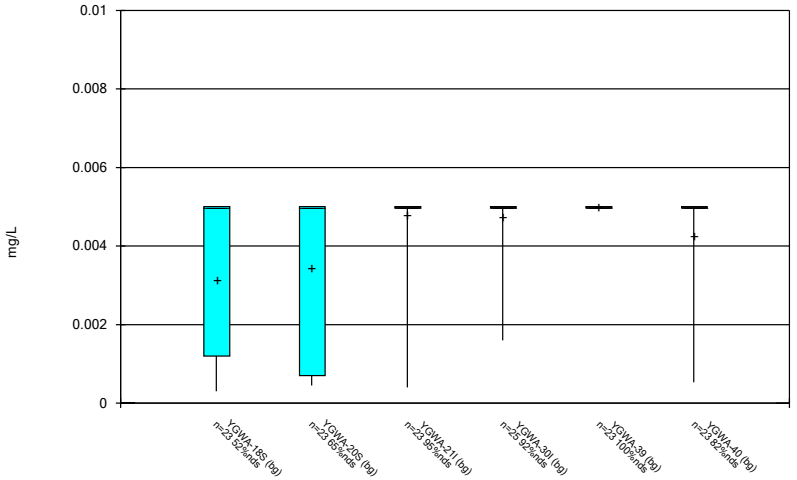
Box & Whiskers Plot



Constituent: Chromium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

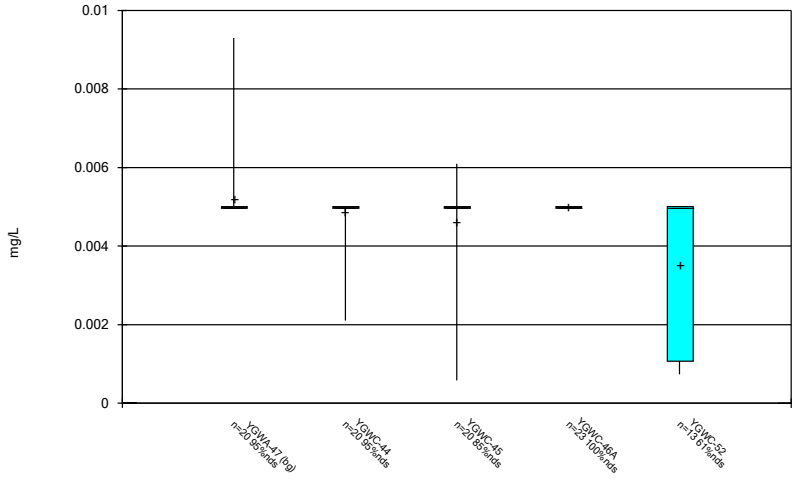
Box & Whiskers Plot



Constituent: Chromium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

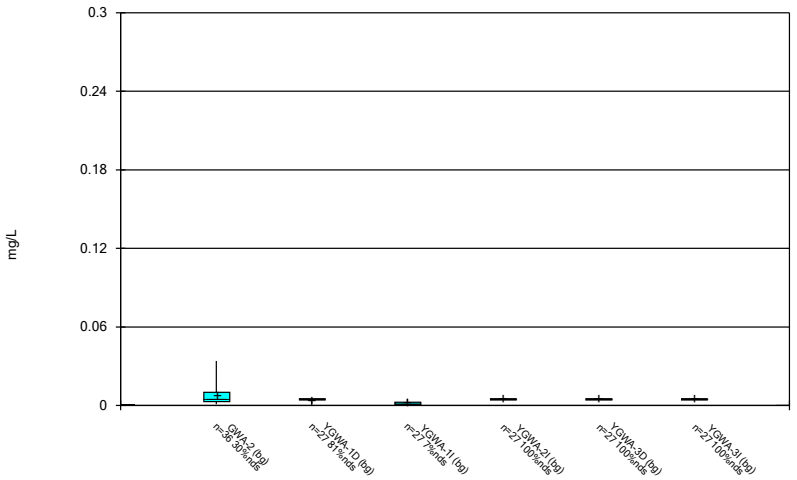
Box & Whiskers Plot



Constituent: Chromium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

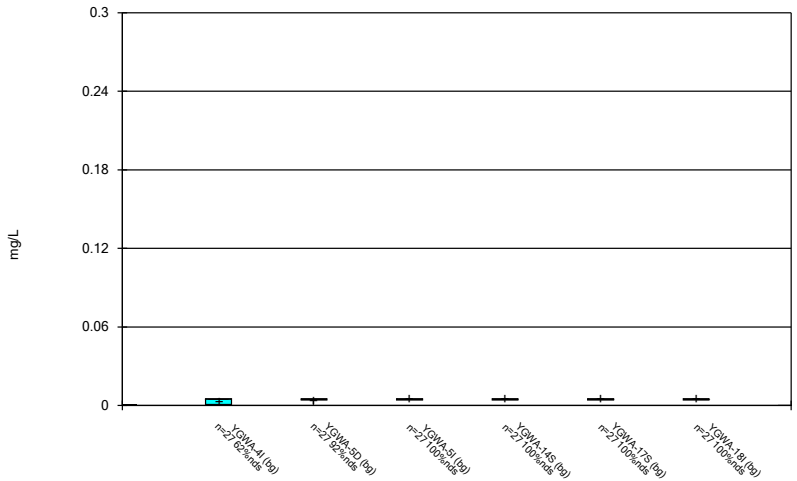


Constituent: Cobalt Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

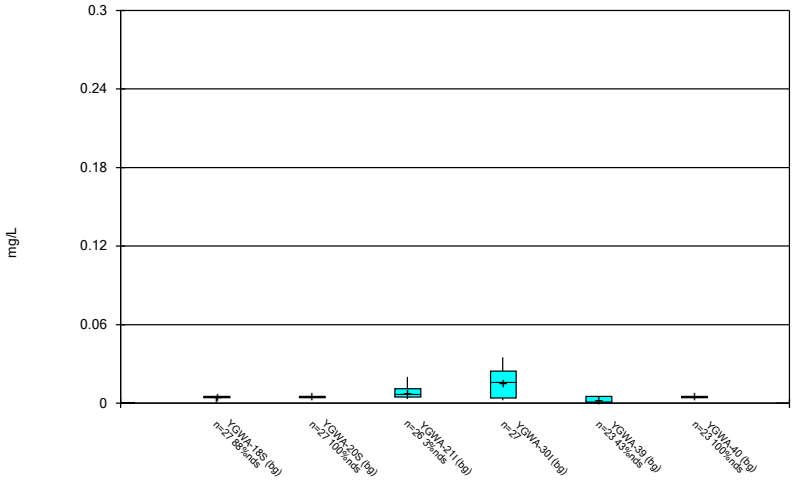


Constituent: Cobalt Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

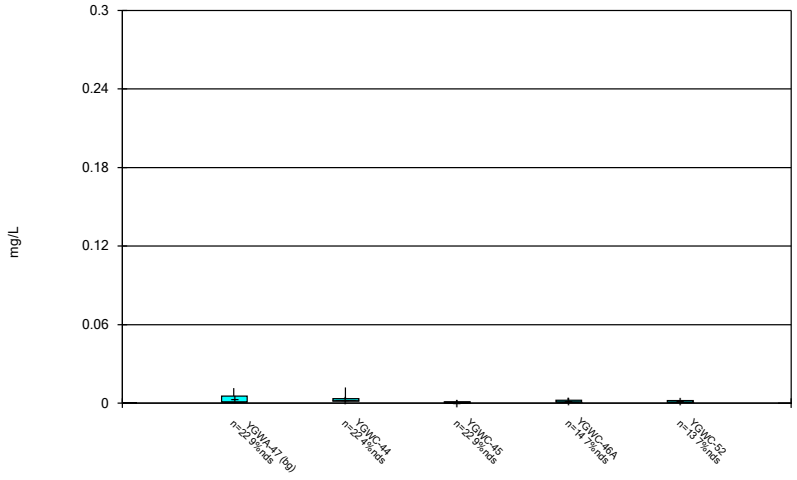


Constituent: Cobalt Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

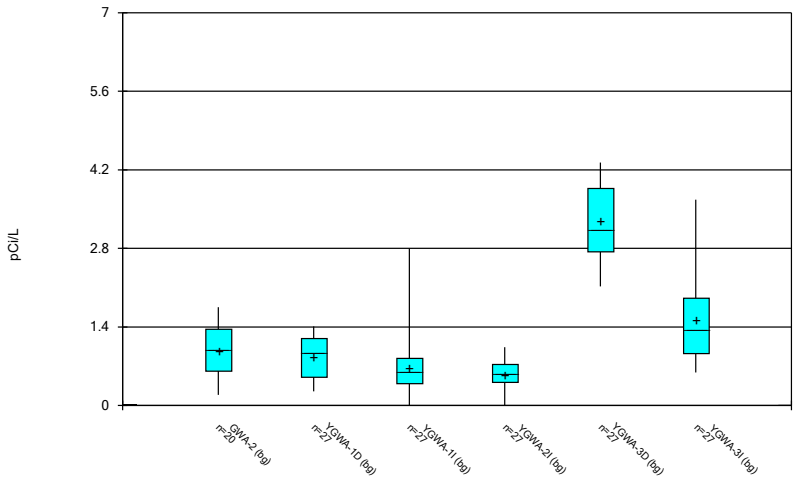


Constituent: Cobalt Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

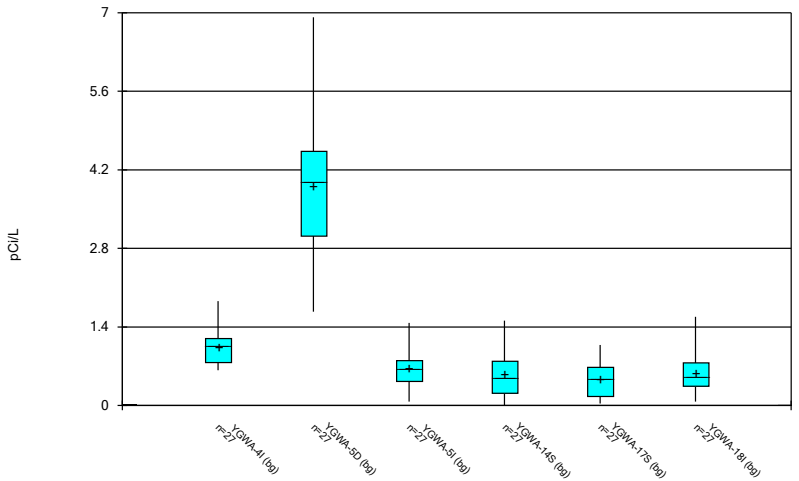
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

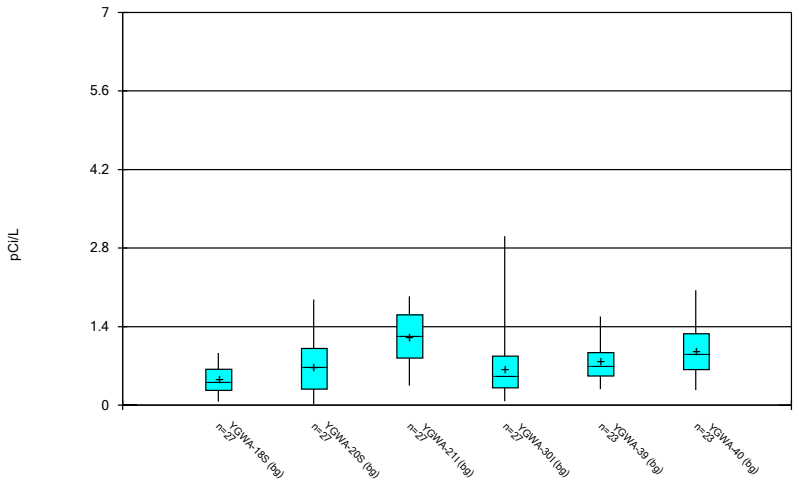
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

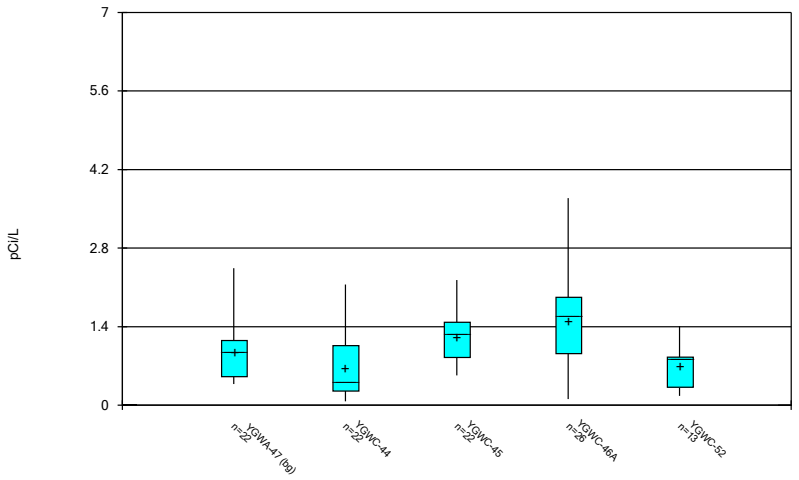
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

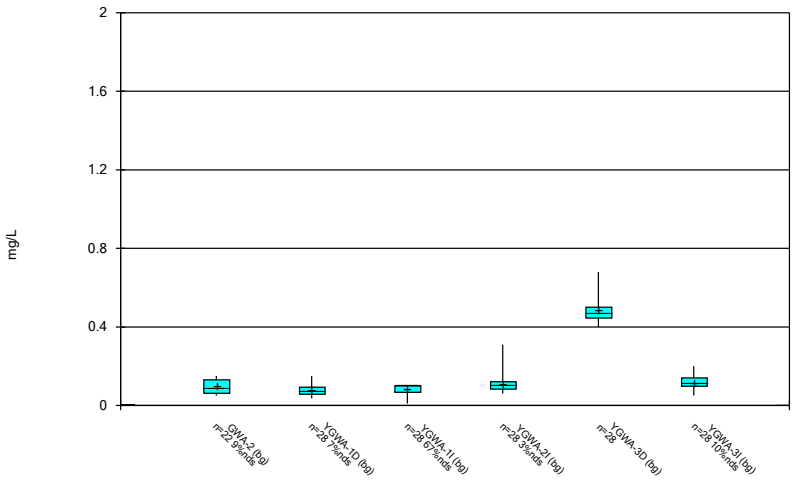
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

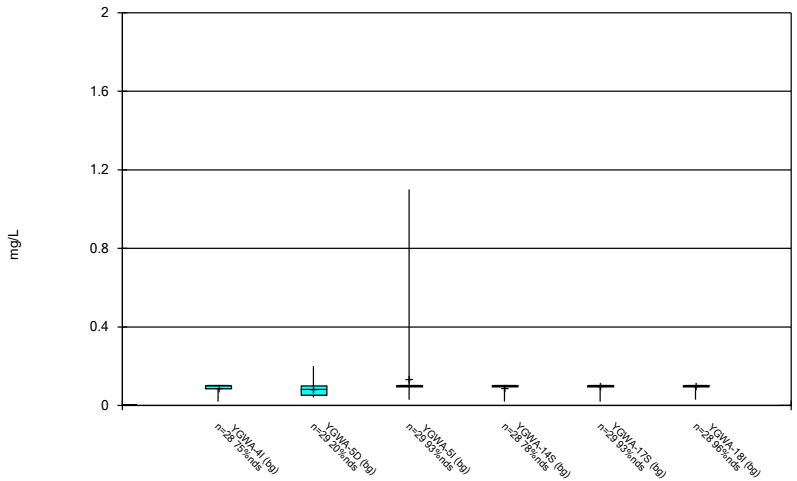
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

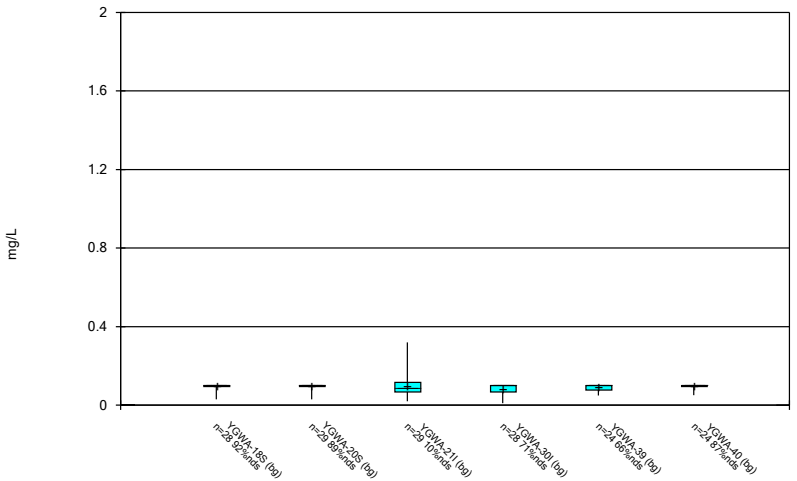
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

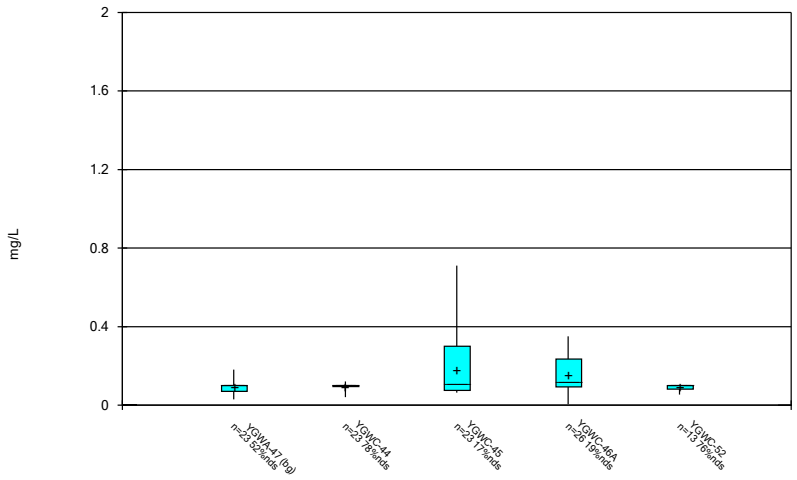
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

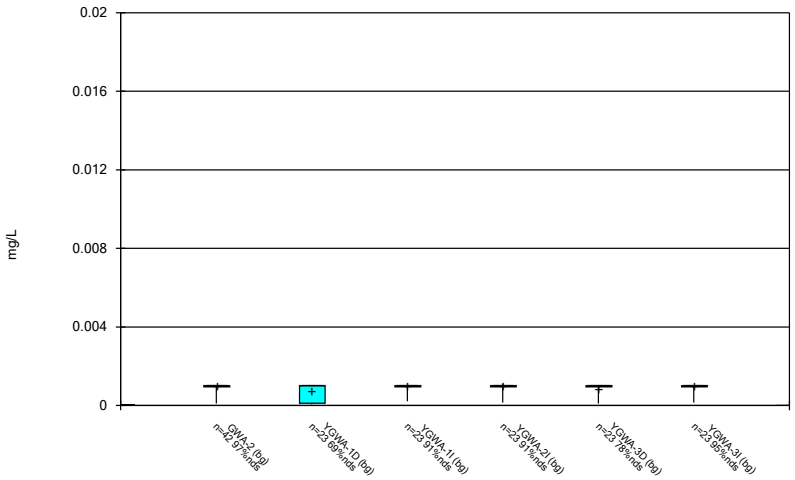
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

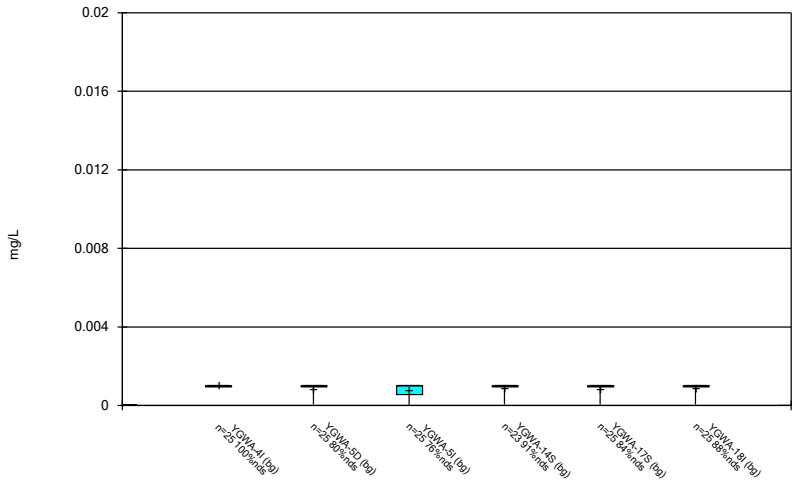


Constituent: Lead Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

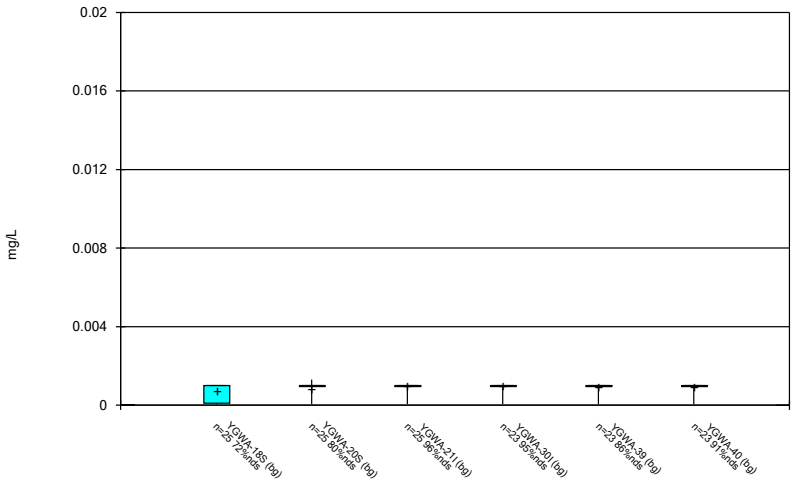


Constituent: Lead Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

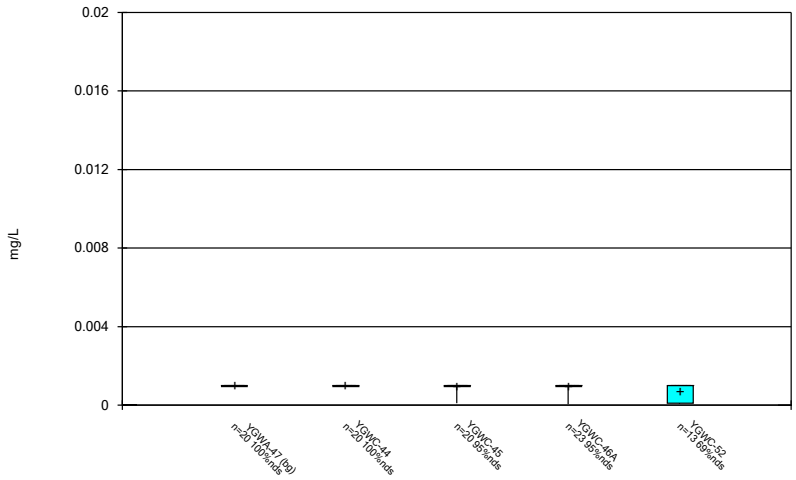


Constituent: Lead Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

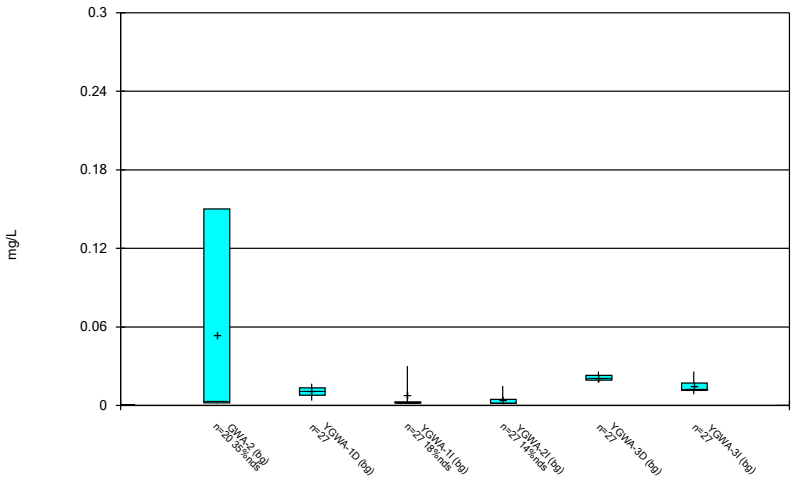


Constituent: Lead Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

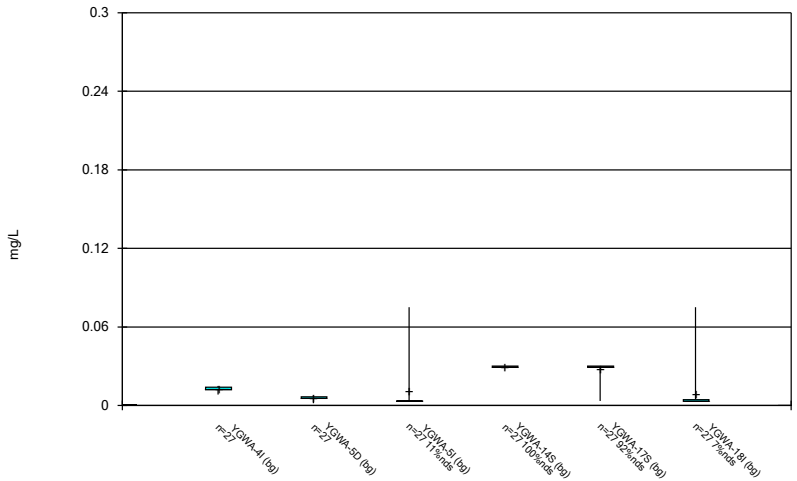


Constituent: Lithium Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

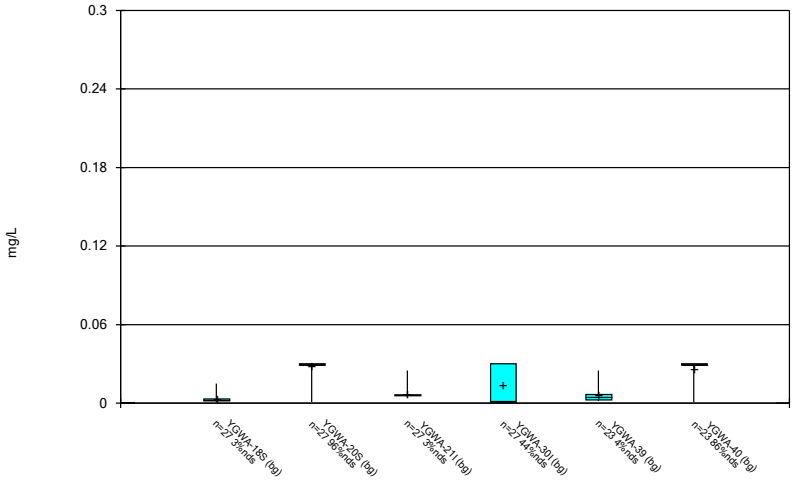


Constituent: Lithium Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

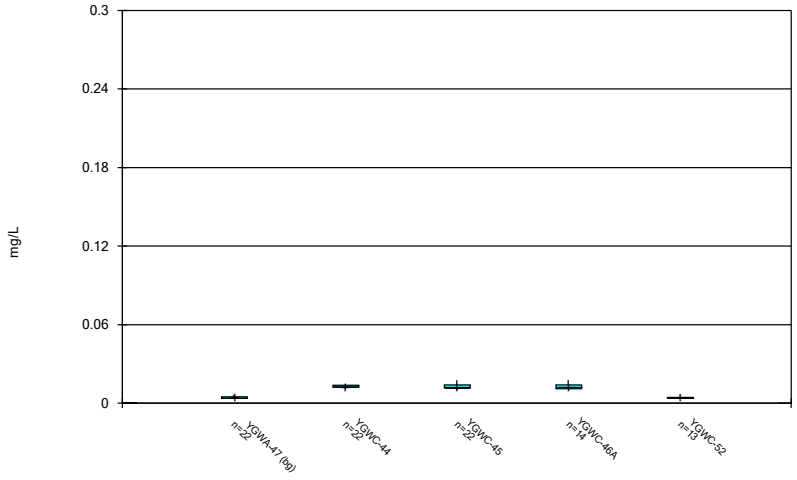


Constituent: Lithium Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

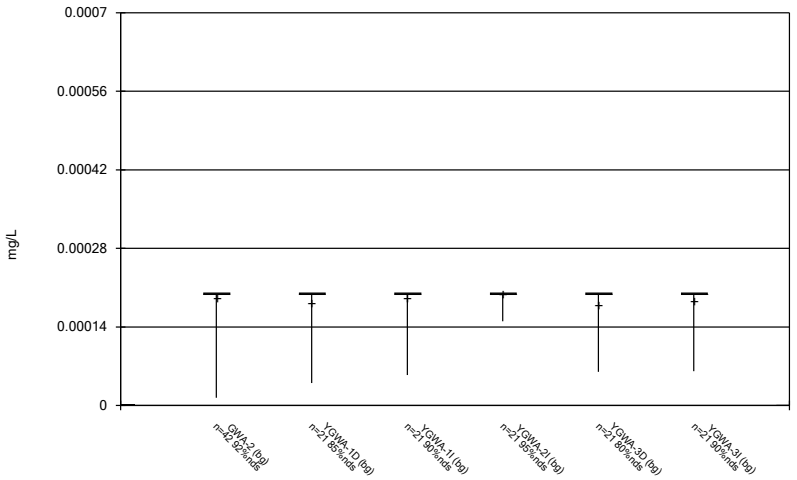


Constituent: Lithium Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

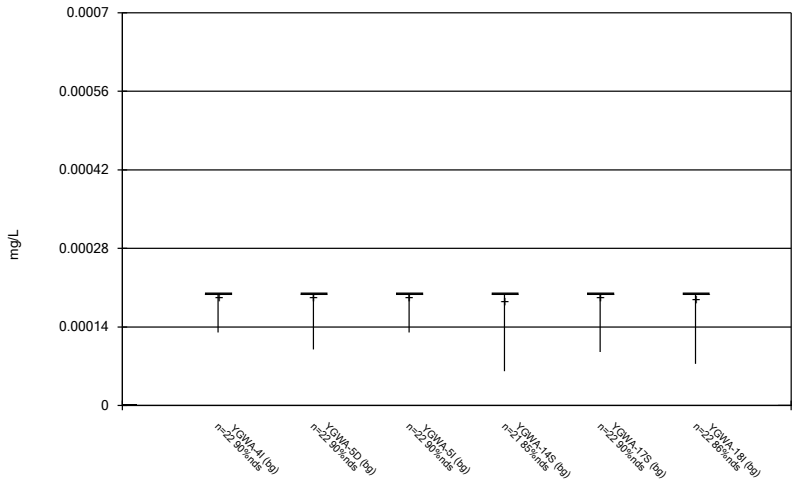
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

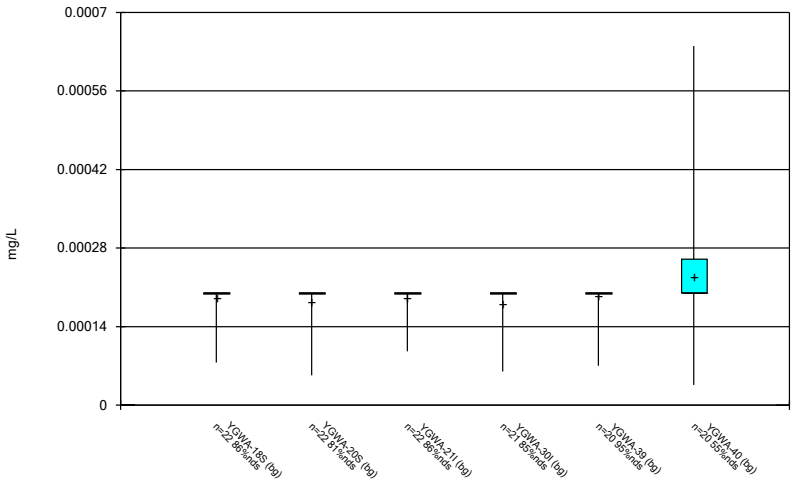
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

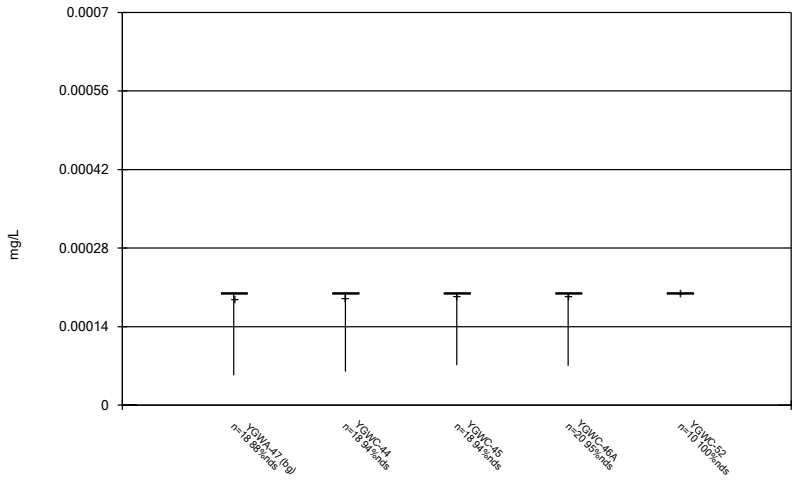
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

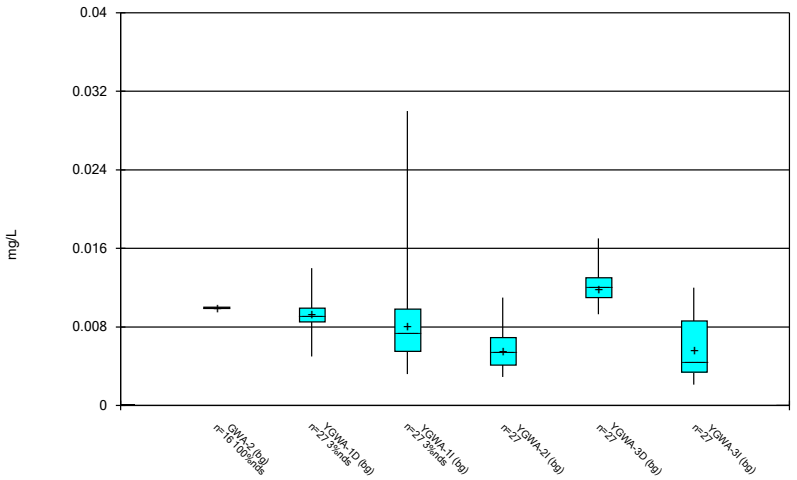
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

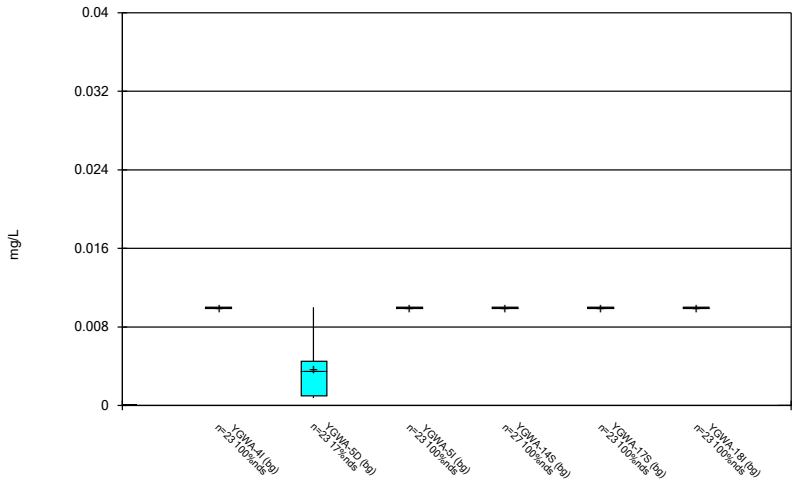
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

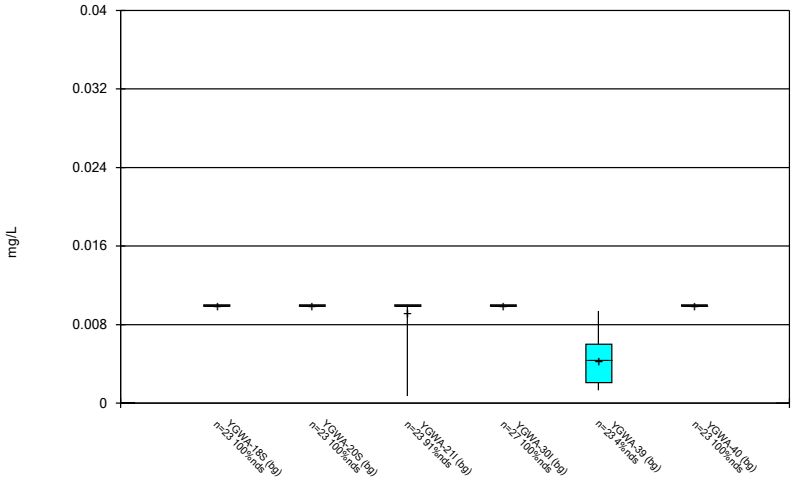
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

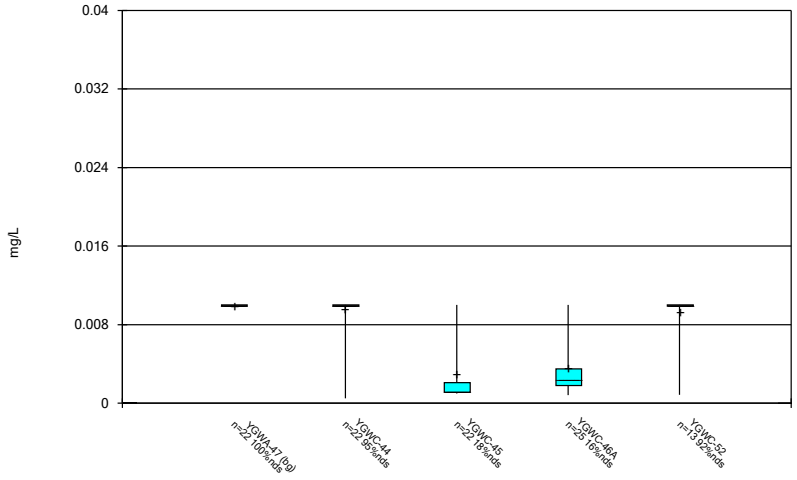
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

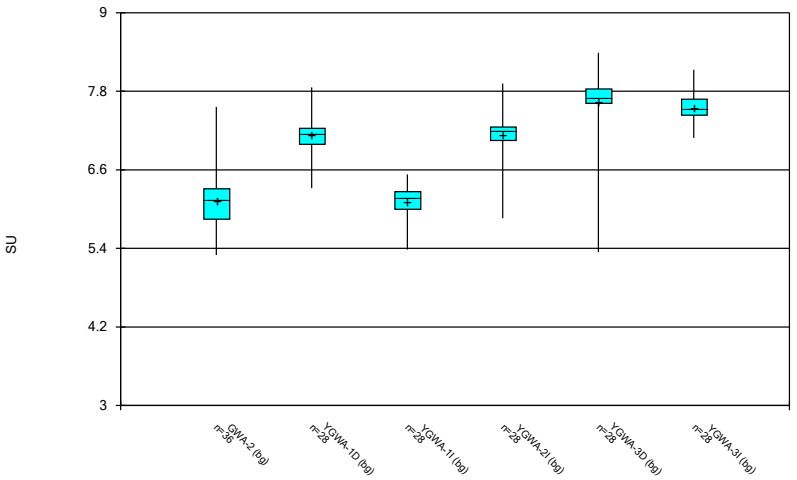
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

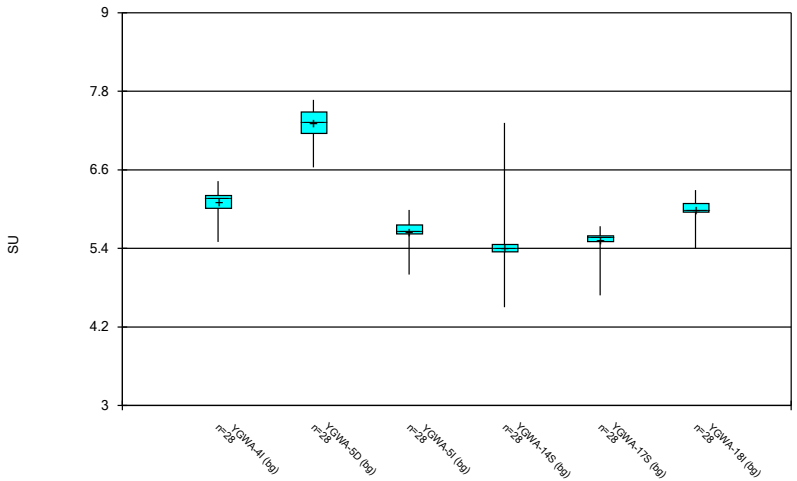
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

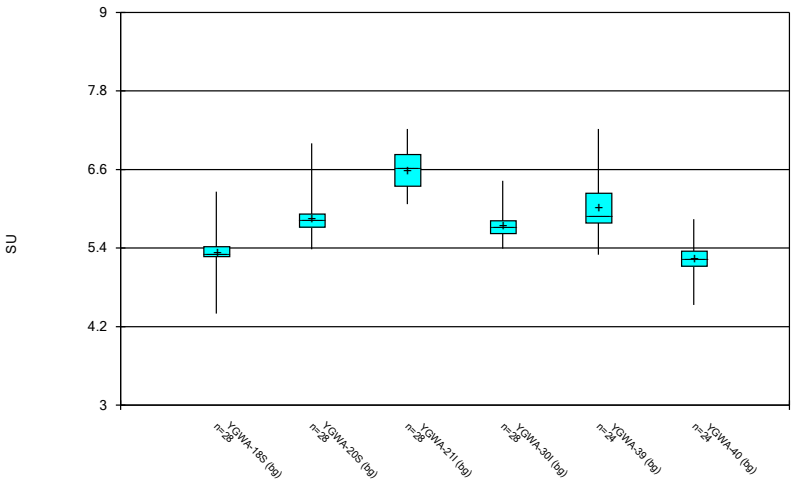
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

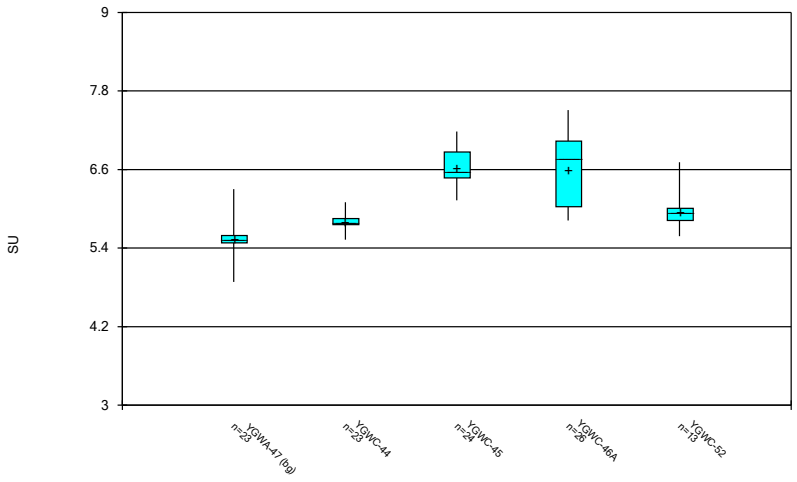
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

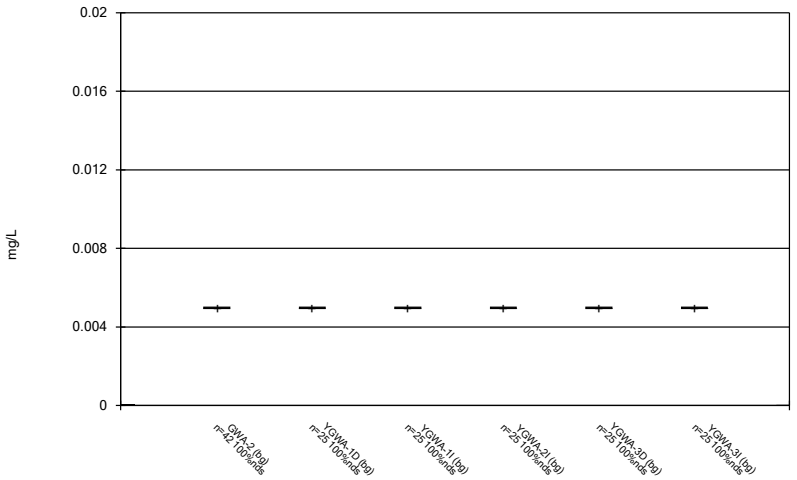
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

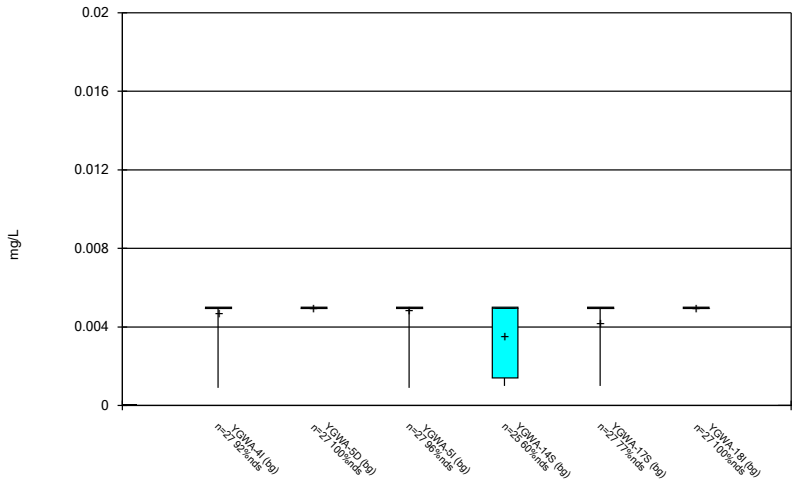
Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

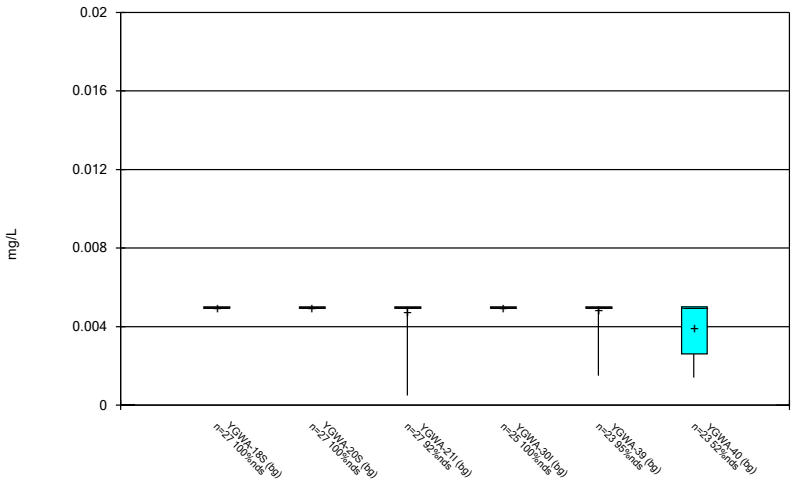
Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

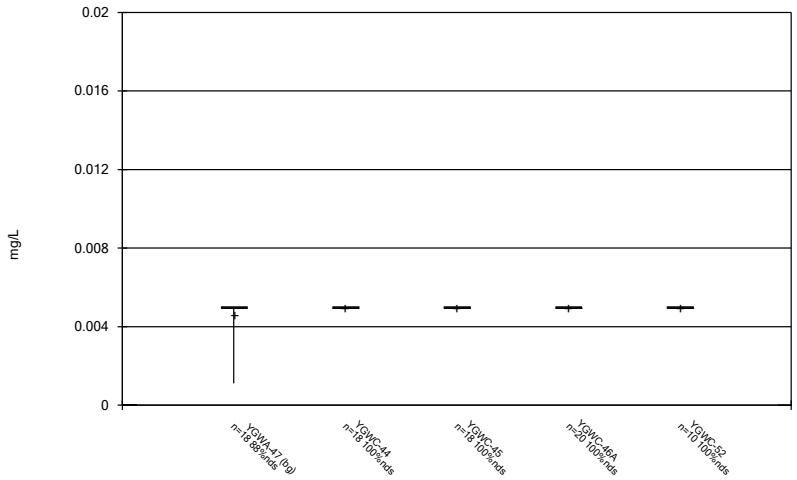
Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

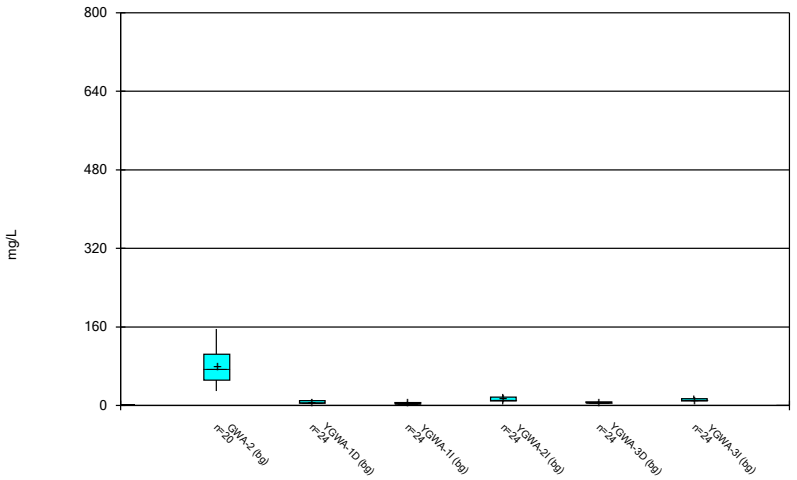
Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

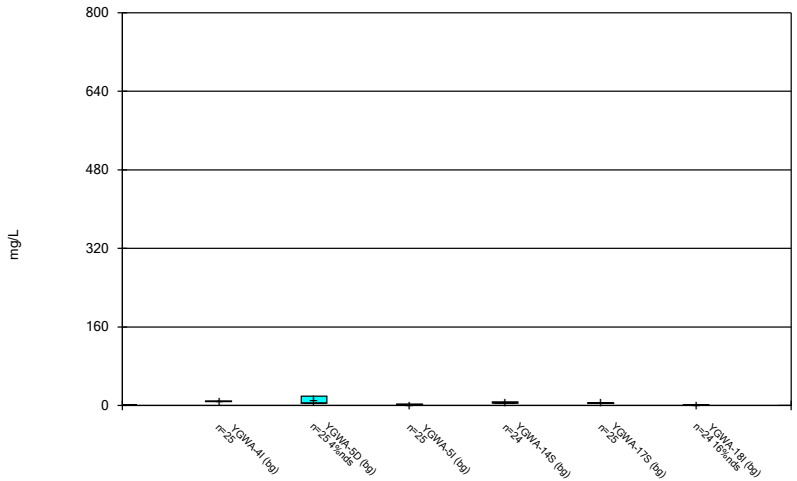


Constituent: Sulfate Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

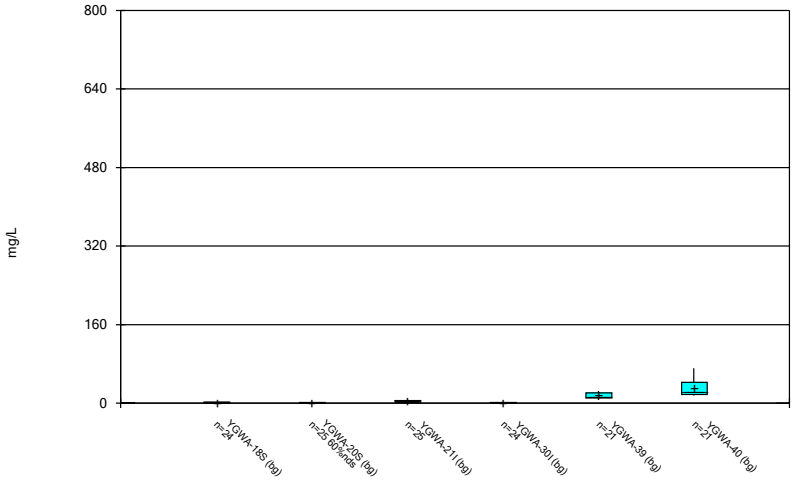


Constituent: Sulfate Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

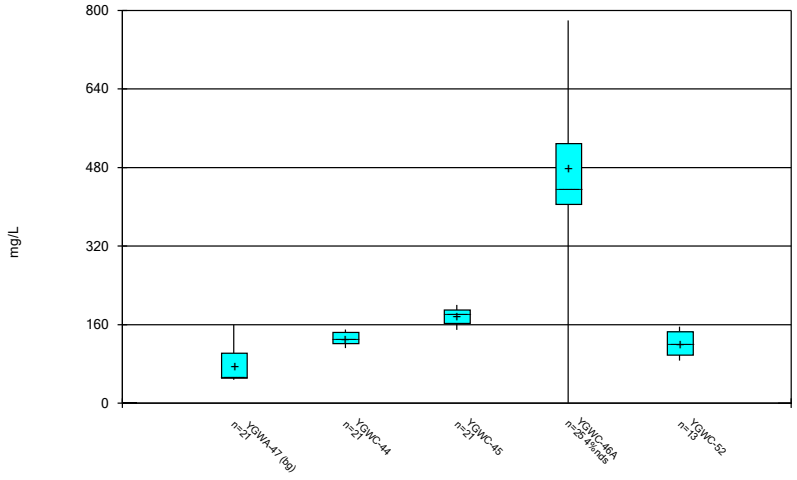


Constituent: Sulfate Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

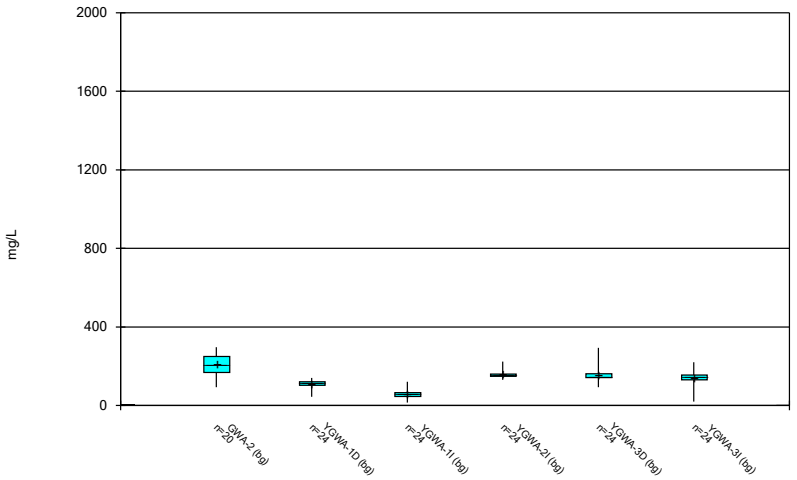


Constituent: Sulfate Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

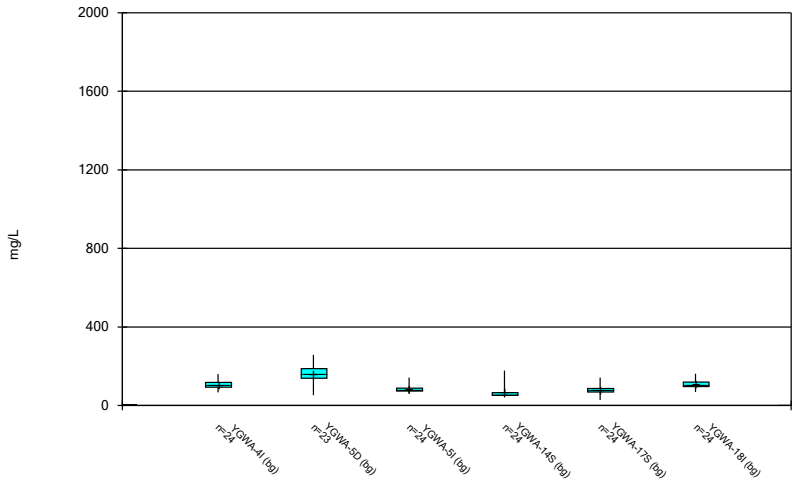


Constituent: TDS Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

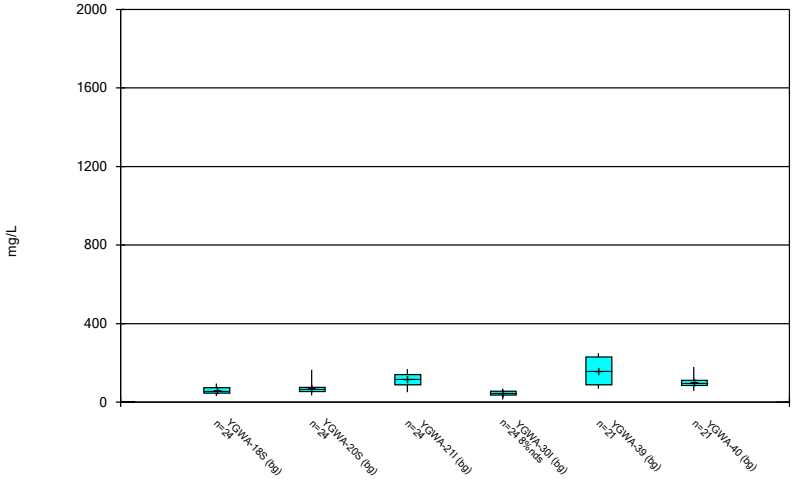


Constituent: TDS Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

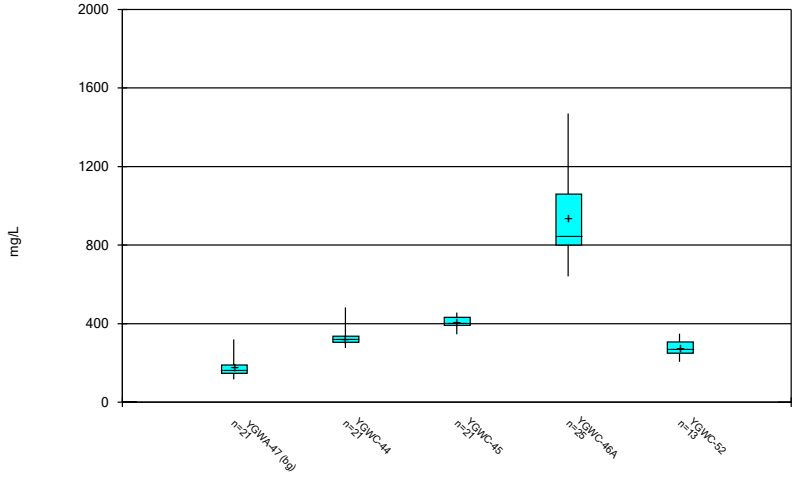


Constituent: TDS Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

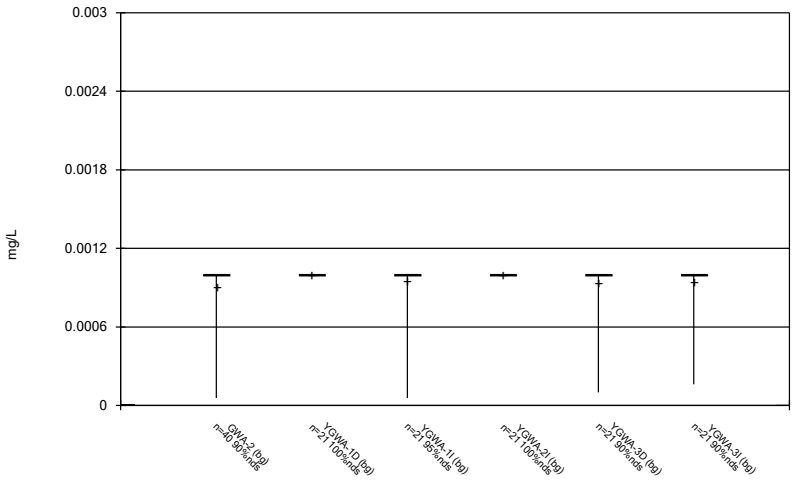


Constituent: TDS Analysis Run 5/20/2025 7:42 PM

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

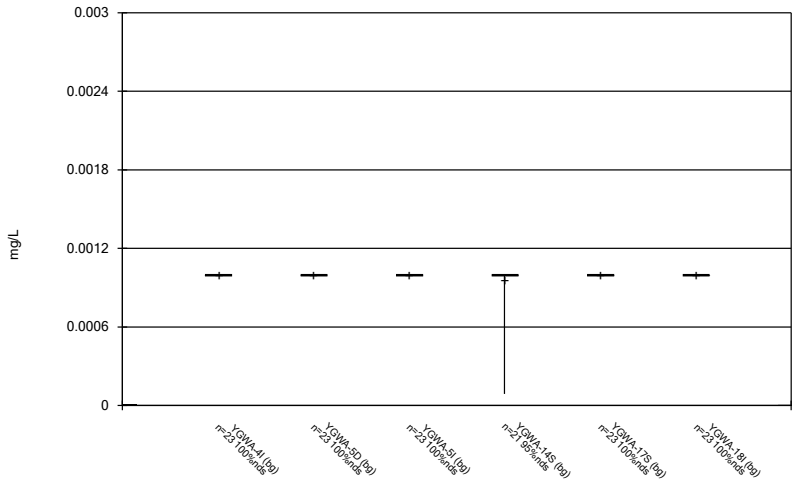
Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/20/2025 7:42 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

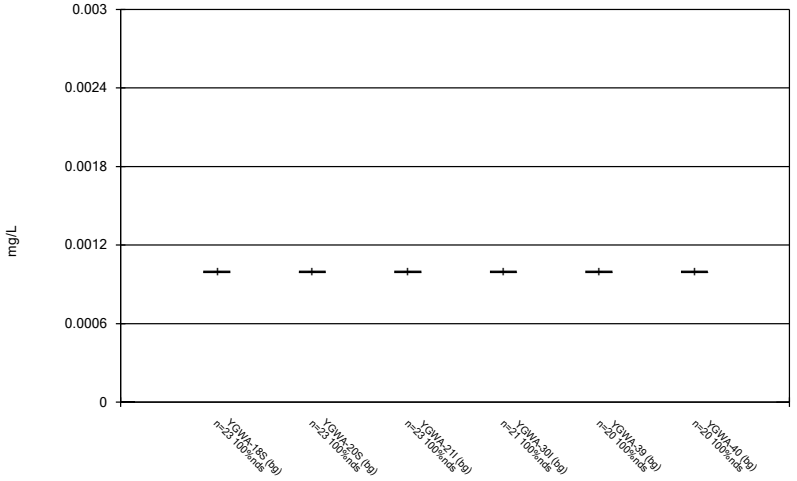
Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/20/2025 7:43 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

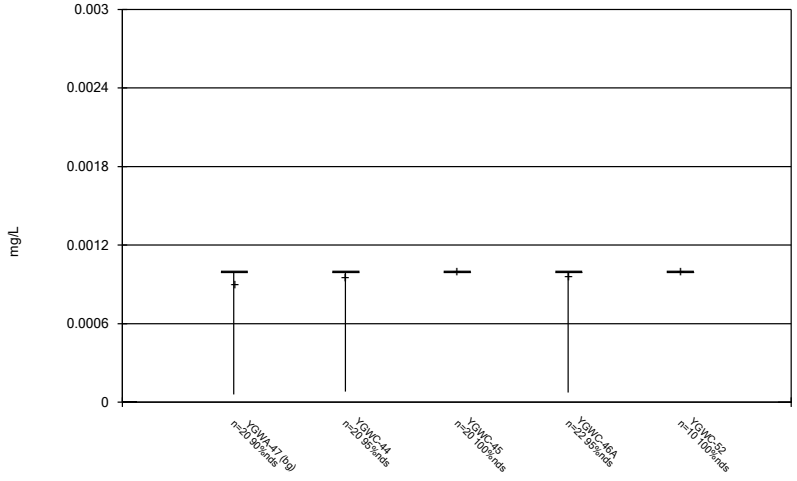
Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/20/2025 7:43 PM
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/20/2025 7:43 PM
Plant Yates Client: Southern Company Data: Yates AP-1

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 8:50 PM

	GWA-2 Cobalt (mg/L)	YGWA-21I Cobalt (mg/L)	YGWA-5D TDS (mg/L)
8/26/2020	0.2 (O)		
9/22/2020	0.16 (O)		
3/2/2021	0.21 (O)		
8/20/2021	0.074 (O)		
2/8/2022	0.072 (O)		
8/30/2022	0.075 (O)		
2/20/2024			639 (O)
2/25/2025		0.041 (o)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:04 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-44**	**0.16**	**n/a**	**2/26/2025**	**0.56**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-46A**	**0.16**	**n/a**	**2/26/2025**	**2.8**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**YGWC-45**	**37**	**n/a**	**2/26/2025**	**55.4**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-46A**	**37**	**n/a**	**2/26/2025**	**132**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-46A**	**12.7**	**n/a**	**2/26/2025**	**35.2**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-45**	**160**	**n/a**	**2/26/2025**	**161**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-46A**	**160**	**n/a**	**2/26/2025**	**463**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-45**	**319**	**n/a**	**2/26/2025**	**456**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-46A**	**319**	**n/a**	**2/26/2025**	**1030**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:04 AM

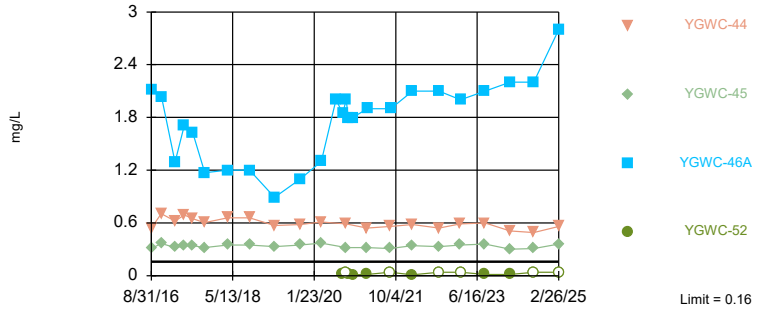
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-44**	**0.16**	**n/a**	**2/26/2025**	**0.56**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-45	0.16	n/a	2/26/2025	0.36J	No	443	n/a	n/a	51.92	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Boron (mg/L)	**YGWC-46A**	**0.16**	**n/a**	**2/26/2025**	**2.8**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004922**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-52	0.16	n/a	2/26/2025	0.04ND	No	443	n/a	n/a	51.92	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-44	37	n/a	2/26/2025	30.1	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-45**	**37**	**n/a**	**2/26/2025**	**55.4**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-46A**	**37**	**n/a**	**2/26/2025**	**132**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-52	37	n/a	2/26/2025	32.3	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-44	12.7	n/a	2/26/2025	11.7	No	448	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-45	12.7	n/a	2/26/2025	6.4	No	448	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-46A**	**12.7**	**n/a**	**2/26/2025**	**35.2**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-52	12.7	n/a	2/26/2025	2.6	No	448	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-44	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-45	1.1	n/a	2/26/2025	0.069J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-46A	1.1	n/a	2/26/2025	0.075J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-52	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
pH, Field (SU)	YGWC-44	8.39	4.4	2/26/2025	5.78	No	527	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-45	8.39	4.4	2/26/2025	6.63	No	527	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-46A	8.39	4.4	2/26/2025	6.85	No	527	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-52	8.39	4.4	2/26/2025	5.97	No	527	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-44	160	n/a	2/26/2025	112	No	449	n/a	n/a	4.454	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-45**	**160**	**n/a**	**2/26/2025**	**161**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-46A**	**160**	**n/a**	**2/26/2025**	**463**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-52	160	n/a	2/26/2025	86.6	No	449	n/a	n/a	4.454	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-44	319	n/a	2/26/2025	309	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
TDS (mg/L)	**YGWC-45**	**319**	**n/a**	**2/26/2025**	**456**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-46A**	**319**	**n/a**	**2/26/2025**	**1030**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004922**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	YGWC-52	319	n/a	2/26/2025	205	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: YGWC-44, YGWC-46A

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 443 background values. 51.92% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Boron Analysis Run 5/20/2025 11:03 AM View: Appendix III Interwell

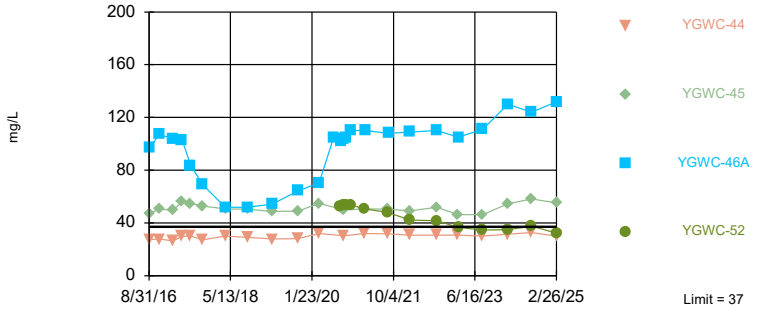
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-45, YGWC-46A

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 449 background values. 0.6682% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Calcium Analysis Run 5/20/2025 11:03 AM View: Appendix III Interwell

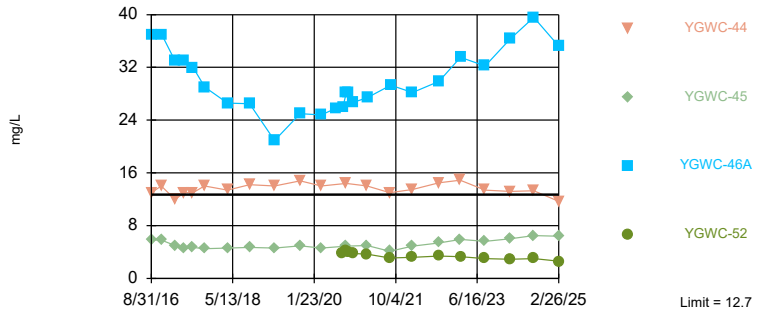
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-46A

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 448 background values. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Chloride Analysis Run 5/20/2025 11:03 AM View: Appendix III Interwell

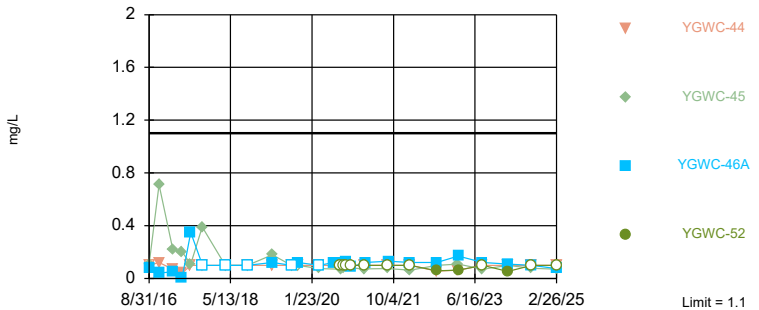
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 518 background values. 54.25% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Fluoride Analysis Run 5/20/2025 11:03 AM View: Appendix III Interwell

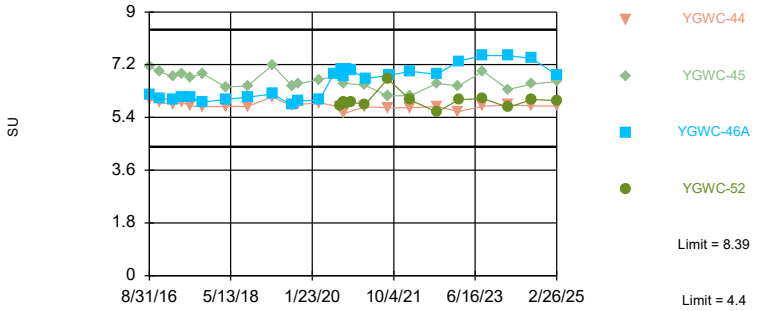
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 527 background values. Annual per-constituent alpha = 0.0007874. Individual comparison alpha = 0.00009844 (1 of 2). Comparing 4 points to limit.

Constituent: pH, Field Analysis Run 5/20/2025 11:03 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

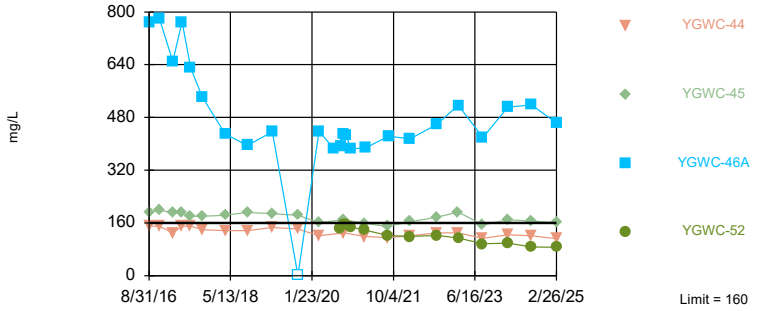
Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-45, YGWC-46A

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 449 background values. 4.454% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Sulfate Analysis Run 5/20/2025 11:03 AM View: Appendix III Interwell

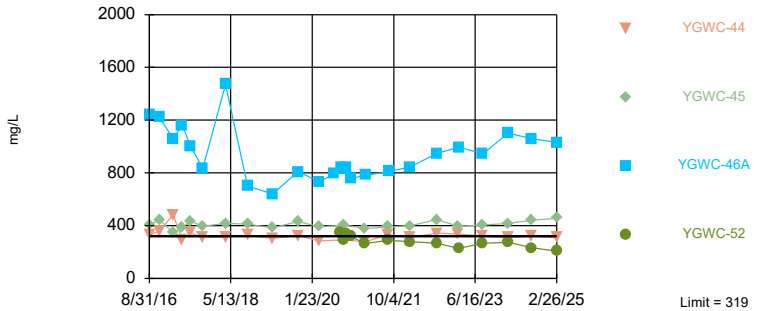
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-45, YGWC-46A

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 442 background values. 0.4525% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: TDS Analysis Run 5/20/2025 11:03 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
7/25/2016	<0.04	<0.04				<0.04			
7/26/2016			0.0055 (J)	0.0097 (J)	0.0177 (J)		0.0052 (J)	0.0047 (J)	<0.04
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	<0.04		<0.04						
9/14/2016		<0.04					0.0071 (J)	<0.04	0.01 (J)
9/15/2016				0.0102 (J)	0.0214 (J)				
9/16/2016									
9/19/2016						<0.04			
11/1/2016		<0.04	0.0086 (J)	<0.04		<0.04			
11/2/2016					0.0151 (J)		<0.04	<0.04	
11/3/2016									
11/4/2016	<0.04								<0.04
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					0.0198 (J)				
1/11/2017		<0.04	0.0074 (J)	<0.04					
1/12/2017							0.0076 (J)		<0.04
1/13/2017								<0.04	
1/16/2017	<0.04					<0.04			
2/21/2017						<0.04			
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		0.0063 (J)							
3/2/2017	<0.04		0.008 (J)	0.0084 (J)					
3/3/2017									
3/6/2017								<0.04	
3/7/2017							0.0089 (J)		<0.04
3/8/2017					0.0189 (J)				
4/26/2017		<0.04		<0.04	0.0161 (J)	<0.04			
4/27/2017	<0.04		0.0066 (J)						
4/28/2017									
5/1/2017							0.0061 (J)	<0.04	
5/2/2017									<0.04
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	0.006 (J)		0.0087 (J)				0.0079 (J)		<0.04
6/28/2017		<0.04		<0.04					
6/29/2017								<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)
6/30/2017					0.0173 (J)	<0.04			
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	0.0071 (J)		0.0072 (J)				0.0094 (J)		<0.04
10/4/2017		<0.04		<0.04		<0.04			
10/5/2017					0.0173 (J)			<0.04	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.0052 (J)						
6/6/2018	<0.04						0.0098 (J)		
6/7/2018				0.004 (J)				0.0045 (J)	<0.04
6/8/2018		<0.04			0.013 (J)				
6/11/2018						0.014 (J)			
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018							0.01 (J)	0.005 (J)	0.0057 (J)
10/1/2018	0.0049 (J)	<0.04	0.021 (J)	<0.04	0.015 (J)				
10/2/2018						<0.04			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.04		0.005 (J)						
3/29/2019					0.014 (J)				
4/1/2019		<0.04		<0.04		<0.04			
4/2/2019									
4/3/2019							0.0076 (J)	0.0055 (J)	0.0044 (J)
6/12/2019									
9/24/2019	0.0055 (J)		0.0064 (J)				0.01 (J)		0.0049 (J)
9/25/2019		<0.04		0.0054 (J)	0.018 (J)	<0.04		<0.04	
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	0.0087 (J)				0.02 (J)				
3/19/2020		0.0053 (J)	0.0085 (J)	0.0073 (J)		0.0052 (J)			
3/24/2020							0.011 (J)		0.0068 (J)
3/25/2020								0.011 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020							0.0079 (J)	<0.04	0.0053 (J)
9/23/2020	<0.04	0.0073 (J)	<0.04	0.012 (J)					
9/24/2020						0.0075 (J)			
9/25/2020					0.02 (J)				
10/7/2020									
11/12/2020									
3/1/2021						<0.04			
3/2/2021					0.017 (J)		0.0068 (J)		0.011 (J)
3/3/2021	<0.04	<0.04	<0.04	<0.04				0.0056 (J)	
3/4/2021									
8/19/2021	<0.04		<0.04	<0.04	0.018 (J)	<0.04			
8/20/2021									
8/26/2021							0.009 (J)	<0.04	<0.04
8/27/2021		<0.04							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04	0.01 (J)					
2/10/2022					0.02 (J)		0.011 (J)		<0.04
2/11/2022						<0.04		<0.04	
8/30/2022			<0.04				0.0098 (J)		<0.04
8/31/2022	<0.04	<0.04		<0.04	0.015 (J)	<0.04		<0.04	
2/7/2023	<0.04		<0.04				<0.04		
2/8/2023		<0.04		<0.04	0.015 (J)	<0.04			
2/9/2023								<0.04	<0.04
2/10/2023									
8/15/2023	0.0094 (J)		<0.04	<0.04	0.017 (J)		<0.04	<0.04	<0.04
8/16/2023		<0.04				<0.04			
2/20/2024	0.014 (J)	<0.04	0.015 (J)	<0.04		<0.04	<0.04	<0.04	<0.04
2/21/2024									
2/23/2024					0.037 (J)				
8/20/2024	<0.04	<0.04	<0.04	<0.04	0.014 (J)	<0.04	<0.04	<0.04	<0.04
8/21/2024									
8/22/2024									
2/25/2025	<0.04	<0.04	<0.04	<0.04	0.018 (J)	<0.04	0.0078 (J)	<0.04	<0.04
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	0.036 (J)	<0.04				
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)		0.008 (J)	<0.04				
7/28/2016			0.0096 (J)						
8/30/2016						0.0166 (J)			
8/31/2016							0.541	0.308	0.0315 (J)
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		0.0079 (J)		0.0086 (J)					
9/19/2016	<0.04		<0.04		<0.04				
11/1/2016									
11/2/2016					<0.04				
11/3/2016	<0.04	0.0082 (J)	<0.04	0.0077 (J)					
11/4/2016									
11/14/2016						0.0166 (J)		0.368	
11/15/2016							0.706		
11/16/2016									
11/28/2016									0.0095 (J)
12/15/2016									
1/10/2017									
1/11/2017	<0.04	0.0096 (J)		0.0092 (J)					
1/12/2017									
1/13/2017			<0.04		<0.04				
1/16/2017									
2/21/2017									
2/22/2017									<0.04
2/24/2017						0.0145 (J)			
2/27/2017								0.321	
2/28/2017							0.623		
3/1/2017	<0.04	0.0098 (J)							
3/2/2017				0.0095 (J)					
3/3/2017									
3/6/2017			<0.04		<0.04				
3/7/2017									
3/8/2017									
4/26/2017	<0.04	0.0091 (J)	<0.04		<0.04				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				<0.04					
5/8/2017						0.0141 (J)	0.69		0.0084 (J)
5/9/2017								0.338	
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							
6/29/2017			<0.04	0.0074 (J)	<0.04				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/30/2017									
7/11/2017						0.0131 (J)			
7/13/2017							0.649	0.34	
7/17/2017									0.0092 (J)
10/3/2017			<0.04						
10/4/2017		0.009 (J)		0.0077 (J)	<0.04				
10/5/2017	<0.04								
10/10/2017						0.0124 (J)	0.603	0.319	
10/11/2017									
10/12/2017									
10/16/2017									<0.04
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									<0.04
2/20/2018									
4/2/2018						0.013 (J)			
4/3/2018								0.35	
4/4/2018							0.66		
6/5/2018			0.0092 (J)						
6/6/2018					0.0049 (J)				
6/7/2018	<0.04								
6/8/2018									
6/11/2018		0.0093 (J)		0.01 (J)					
6/28/2018									
8/6/2018									<0.04
8/7/2018									
9/19/2018						0.012 (J)	0.66	0.35	
9/24/2018									
9/25/2018	0.0046 (J)	0.007 (J)	0.0054 (J)	0.0096 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									<0.04
3/26/2019									
3/27/2019						0.013 (J)	0.57	0.33	
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.011 (J)	0.0066 (J)					
4/3/2019	<0.04	0.0053 (J)			<0.04				
6/12/2019									<0.04
9/24/2019			0.018 (J)						
9/25/2019				0.0081 (J)	<0.04				
9/26/2019	0.0062 (J)	0.0072 (J)							
10/8/2019						0.012 (J)	0.58		<0.04
10/9/2019								0.35	
3/17/2020						0.023 (J)	0.61	0.37	0.0051 (J)
3/18/2020									
3/19/2020									
3/24/2020	0.0054 (J)	0.01 (J)	0.016 (J)	0.0092 (J)	<0.04				
3/25/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						0.0076 (J)	0.59		0.0079 (J)
9/23/2020	0.021 (J)	0.006 (J)		0.0066 (J)				0.32	
9/24/2020			0.013 (J)		0.0094 (J)				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						0.013 (J)	0.54	0.32	
3/2/2021									<0.04
3/3/2021	<0.04	0.0094 (J)		0.01 (J)	<0.04				
3/4/2021			0.0079 (J)						
8/19/2021						0.011 (J)	0.56	0.31	
8/20/2021									<0.04
8/26/2021		<0.04							
8/27/2021	<0.04			0.011 (J)	<0.04				
9/1/2021			<0.04						
9/3/2021									
2/8/2022						0.015 (J)			<0.04
2/9/2022	<0.04	<0.04	<0.04	0.0098 (J)	<0.04		0.58	0.34	
2/10/2022									
2/11/2022									
8/30/2022	<0.04	0.014 (J)	0.012 (J)	0.013 (J)					<0.04
8/31/2022					<0.04	0.0091 (J)	0.54	0.33	
2/7/2023	<0.04	<0.04	<0.04	0.014 (J)	<0.04				<0.04
2/8/2023						0.011 (J)	0.59		
2/9/2023								0.35	
2/10/2023									
8/15/2023	<0.04	<0.04	0.046 (J)	<0.04	<0.04	<0.04	0.6	0.36	<0.04
8/16/2023									
2/20/2024	<0.04		<0.04	<0.04	<0.04	0.023 (J)			0.017 (J)
2/21/2024							0.51	0.3	
2/23/2024		0.018 (J)							
8/20/2024	<0.04		<0.04	<0.04	<0.04	<0.04			
8/21/2024		<0.04					0.49	0.31	
8/22/2024									
2/25/2025	<0.04	<0.04	0.0066 (J)	0.0093 (J)	<0.04	0.014 (J)			
2/26/2025							0.56	0.36 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	2.12				
9/13/2016					
9/14/2016		<0.04			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		<0.04			
11/14/2016					
11/15/2016					
11/16/2016	2.03				
11/28/2016					
12/15/2016		0.0107 (J)			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		<0.04			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	1.29				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		<0.04			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		<0.04			
5/1/2017					
5/2/2017					
5/8/2017	1.71				
5/9/2017					
5/26/2017		<0.04			
6/27/2017					
6/28/2017		<0.04			
6/29/2017					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	1.62				
7/17/2017					
10/3/2017		<0.04			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	1.17		0.0135 (J)		
10/12/2017				0.0401	
10/16/2017					
11/20/2017			0.0251 (J)	0.156	
1/10/2018				0.15	
1/11/2018			0.0255 (J)		
2/19/2018				0.15	
2/20/2018			<0.04		
4/2/2018					
4/3/2018			0.033 (J)	0.12	
4/4/2018	1.2				
6/5/2018					
6/6/2018					
6/7/2018		<0.04			
6/8/2018					
6/11/2018					
6/28/2018			0.053	0.16	
8/6/2018					
8/7/2018			0.024 (J)	0.12	
9/19/2018	1.2				
9/24/2018			0.028 (J)	0.099	
9/25/2018					
9/26/2018					
10/1/2018		<0.04			
10/2/2018					
2/25/2019					
3/26/2019				0.096	
3/27/2019	0.89		0.017 (J)		
3/28/2019					
3/29/2019		0.0065 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		0.0076 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	1.1		0.017 (J)	0.079	
3/17/2020	1.3				
3/18/2020					
3/19/2020		0.0073 (J)			
3/24/2020				0.088 (J)	
3/25/2020			0.043 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	2				
8/27/2020					0.014 (J)
8/28/2020	1.85 (D)				
9/22/2020					<0.04
9/23/2020	2	<0.04			
9/24/2020			0.037 (J)	0.087 (J)	
9/25/2020					
10/7/2020	1.8				0.018 (J)
11/12/2020	1.8				0.012 (J)
3/1/2021					0.015 (J)
3/2/2021	1.9				
3/3/2021		<0.04			
3/4/2021			0.033 (J)	0.078	
8/19/2021					
8/20/2021					<0.04
8/26/2021			0.095		
8/27/2021	1.9	<0.04			
9/1/2021					
9/3/2021				0.077	
2/8/2022			0.13	0.074	
2/9/2022	2.1	<0.04			0.0089 (J)
2/10/2022					
2/11/2022					
8/30/2022		<0.04			
8/31/2022	2.1		0.14	0.062	<0.04
2/7/2023		<0.04	0.13		
2/8/2023				0.057	
2/9/2023					
2/10/2023	2				<0.04
8/15/2023	2.1	<0.04	0.15 (J)	0.052 (J)	0.014 (J)
8/16/2023					
2/20/2024		<0.04	0.12	0.056	
2/21/2024	2.2				0.015 (J)
2/23/2024					
8/20/2024		<0.04			
8/21/2024	2.2		0.13	0.061	
8/22/2024					<0.04
2/25/2025		<0.04	0.13	0.061	
2/26/2025	2.8				<0.04

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
6/1/2016	2.5	21	12						
6/2/2016				28	8.8	33	1.3	2.4	1.3
6/6/2016									
6/7/2016									
7/25/2016	2.16	20.3					1.17		
7/26/2016			11	24.5	7.69	32.3		2.12	1.24
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	2.21		11.8						
9/14/2016		19.7			8.49	31		2.18	
9/15/2016				27					1.17
9/16/2016									
9/19/2016							1.05		
11/1/2016		18.4	11	25.6			1.14		
11/2/2016					7.83	30.9			1.23
11/3/2016									
11/4/2016	2.67							2.17 (J)	
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017									1.24
1/11/2017		20.3	11.2	27.5					
1/12/2017						35.7		2.37	
1/13/2017					8.08				
1/16/2017	2.45						1.23		
2/21/2017							1.25		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		18.6							
3/2/2017	2.57		11	27.5					
3/3/2017									
3/6/2017					8.64				
3/7/2017						32.7		2.34	
3/8/2017									1.21
4/26/2017		25.6		30.4			1.03		1.14
4/27/2017	2.38		11.1						
4/28/2017									
5/1/2017					13.4	37			
5/2/2017								2.17	
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	2.36		13.8			36.5		2.13	
6/28/2017		23.9		29.8					
6/29/2017					8.81				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
6/30/2017							1.13		1.24
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	2.21		14			30.9		2.15	
10/4/2017		22.1		29.7			1.09		
10/5/2017					9.29				1.11
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			15.2 (J)						
6/6/2018	2.3					26.2			
6/7/2018				29.1	8.2			2.3	
6/8/2018		21.9 (J)							1.1
6/11/2018							1.1		
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					9.5 (J)	25.8		2.3	
10/1/2018	1.8	19.7	15.1	26.9					0.99
10/2/2018							1.1		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	2.2		13.3 (J)						
3/29/2019									1.1
4/1/2019		20.4 (J)		30.1			1.3		
4/2/2019									
4/3/2019					8.4	24.7 (J)		2.8	
6/12/2019									
9/24/2019	2.3		15.8			25.8		2.5	
9/25/2019		22.4		29.5	9.5		1.1		1.1
9/26/2019									
10/8/2019									
10/9/2019									
10/10/2019					9.9	24.2		2.4	
3/17/2020									
3/18/2020	2.1								1.1
3/19/2020		21.9	15	31.5			1.2		
3/24/2020						26.1		2.5	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
3/25/2020					10.5				
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020					9.6	27.2		2.6	
9/23/2020	1.8	23.6	14.1	28.6					
9/24/2020							1.1		
9/25/2020									1.3
10/7/2020									
11/12/2020									
3/1/2021							1.2		
3/2/2021						1.6		2.6	1.2
3/3/2021	1.8	20.6	14.1	29.8	7.7				
3/4/2021									
8/19/2021	2		14.2	28.1			1.2		1.2
8/20/2021									
8/26/2021					7.6	25.2		2.5	
8/27/2021		24.7							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	2.1	23.7	14.9	30.3					
2/10/2022						24.8		2.5	1.3
2/11/2022					7.5		1.5		
8/30/2022			14.9			24.8		2.5	
8/31/2022	1.9	23.5		28.7	8.9		1.3		1.3
2/7/2023	2.2		15			26.6			
2/8/2023		23.3		28.9			1.3		1.5
2/9/2023					9.6			2.8	
2/10/2023									
8/15/2023	1.8		13.5	27.4	7.8	25		2.6	1.3
8/16/2023		24.9					1.4		
2/20/2024	2.2	23.7	15.3	30.7	9.9	27.2	1.3	2.7	
2/21/2024									
2/23/2024									1.6
8/20/2024	1.9	23.4	17.7	30	9.1	29.1	1.4	3.2	1.3
8/21/2024									
8/22/2024									
2/25/2025	1.8	21.2	16.4	27.9	8.1	25.9	1.4	2.8	1.3
2/26/2025									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			2.3	2.2	3.7				
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2.08	2					
7/28/2016					3.15				
8/30/2016						20.9			
8/31/2016							27.3	46.7	9.31
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.5			1.97					
9/19/2016		4.76	1.97		3.17				
11/1/2016									
11/2/2016			2.13						
11/3/2016	1.31	5.25		1.99	3.4				
11/4/2016									
11/14/2016						18.6		50.6	
11/15/2016							27.8		
11/16/2016									
11/28/2016									9.47
12/15/2016									
1/10/2017									
1/11/2017	1.25	4.74		2.28					
1/12/2017									
1/13/2017			2.45		4.98				
1/16/2017									
2/21/2017									
2/22/2017									10.4
2/24/2017						16.1			
2/27/2017								49.4	
2/28/2017							26.4		
3/1/2017	1.26	5.37							
3/2/2017				2.15					
3/3/2017									
3/6/2017			2.48		6.28				
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28	2.3		6.65				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				1.95					
5/8/2017						14.6	29.9		14.2
5/9/2017								56	
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							
6/29/2017			2.54	2.02	6.04				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/30/2017									
7/11/2017						14.3			
7/13/2017							30.2	54.8	
7/17/2017									14.1
10/3/2017					8.28				
10/4/2017	1.1		2.25	2.03					
10/5/2017		5.28							
10/10/2017						12.1	27.2	52.8	
10/11/2017									
10/12/2017									
10/16/2017									13.6
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									<25
2/20/2018									
4/2/2018						<25			
4/3/2018								50.6	
4/4/2018							30.1		
6/5/2018					9.1				
6/6/2018			2.3						
6/7/2018		4.8							
6/8/2018									
6/11/2018	1.4			2.1					
6/28/2018									
8/6/2018									11.4 (J)
8/7/2018									
9/19/2018						11.1 (J)	29.2	50.5	
9/24/2018									
9/25/2018	1	4.6	2.3	2.1	10.4 (J)				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									12.7 (J)
3/26/2019									
3/27/2019						10.8 (J)	27.9	48.8	
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				2.5	8.8				
4/3/2019	1.2	5.3	2.9						
6/12/2019									18.9
9/24/2019					7.7				
9/25/2019			2.4	2.6					
9/26/2019	1.085 (D)	5.075 (D)							
10/8/2019						9.7	28.1		28.3
10/9/2019								48.95 (D)	
10/10/2019			2.6	2.4	5.6				
3/17/2020						14.8	31.9	54.8	24.3
3/18/2020									
3/19/2020									
3/24/2020	1	5.3	2.6	2.7	6				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
3/25/2020									
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						10.1	30.4		31
9/23/2020	0.91 (J)	5.2		2.6				50	
9/24/2020			2.6		7.8				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						10.3	31.9	50.7	
3/2/2021									34.2
3/3/2021	0.96 (J)	5.2	2.4	2.5					
3/4/2021					8.7				
8/19/2021						9.6	31.7	50.4	
8/20/2021									26.5
8/26/2021	0.98 (J)								
8/27/2021		5.1	2.4	2.7					
9/1/2021					9.5				
9/3/2021									
2/8/2022						9.4			25.6
2/9/2022	0.87 (J)	5.1	2.3	2.8	9.8		30.8	49.3	
2/10/2022									
2/11/2022									
8/30/2022	0.77 (J)	5.7		3	7.3				23.5
8/31/2022			2.4			9.6	30.8	51.8	
2/7/2023	0.79 (J)	5.5	2.4	2.9	7.5				22.3
2/8/2023						9.2	30.9		
2/9/2023								46.2	
2/10/2023									
8/15/2023	0.8 (J)	5.1	2.2	2.9	6.1	9.6	30	46.3	20.3
8/16/2023									
2/20/2024		5.6	2.5	3.2	7	10.3			22.8
2/21/2024							31.6	54.5	
2/23/2024	0.84 (J)								
8/20/2024		5.9	2.8	3.5	6.9	10			
8/21/2024	0.96 (J)						32.8	58.3	
8/22/2024									
2/25/2025	0.88 (J)	5.3	2.6	3	6	9.9			
2/26/2025							30.1	55.4	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	96.8				
9/13/2016					
9/14/2016		23.5			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		23.7			
11/14/2016					
11/15/2016					
11/16/2016	107				
11/28/2016					
12/15/2016		23.1			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		23.3			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	104				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		25.1			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		30.7			
5/1/2017					
5/2/2017					
5/8/2017	103				
5/9/2017					
5/26/2017		26.2			
6/27/2017					
6/28/2017		26.1			
6/29/2017					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	83.7				
7/17/2017					
10/3/2017		26.7			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	69		2.74		
10/12/2017				2.9	
10/16/2017					
11/20/2017			1.81	10.4	
1/10/2018				10.2	
1/11/2018			1.54		
2/19/2018				<25	
2/20/2018			1.7		
4/2/2018					
4/3/2018			1.4	6.3	
4/4/2018	51.9				
6/5/2018					
6/6/2018					
6/7/2018		25			
6/8/2018					
6/11/2018					
6/28/2018			1.4	6.7	
8/6/2018					
8/7/2018			1.2	6.3	
9/19/2018	51.9				
9/24/2018			1.1	5.7	
9/25/2018					
9/26/2018					
10/1/2018		25			
10/2/2018					
2/25/2019					
3/26/2019				5.6	
3/27/2019	54.2		1.5		
3/28/2019					
3/29/2019		23.5 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		26.4			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	64.2		2.4 (D)	5.05 (D)	
10/10/2019					
3/17/2020	70.4				
3/18/2020					
3/19/2020		27.4			
3/24/2020				4.8	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/25/2020			2.7		
7/6/2020	105				
8/27/2020					52.3
8/28/2020	102				
9/22/2020					53.5
9/23/2020	104	26.3			
9/24/2020			3.7	4.4	
9/25/2020					
10/7/2020	105				53.8
11/12/2020	110				53.6
3/1/2021					50.6
3/2/2021	110				
3/3/2021		25.6			
3/4/2021			8.2	4.6	
8/19/2021					
8/20/2021					47.9
8/26/2021			14.1		
8/27/2021	108	22.6			
9/1/2021					
9/3/2021				5.6	
2/8/2022			15.2	6	
2/9/2022	109	23.4			42.2
2/10/2022					
2/11/2022					
8/30/2022		25.4			
8/31/2022	110		16.3	6.2	41.8
2/7/2023		25.6	16.1		
2/8/2023				5.9	
2/9/2023					
2/10/2023	105				36.7
8/15/2023	111	23.2	17.2	5.3	34.6
8/16/2023					
2/20/2024		28.2	16.9	5.6	
2/21/2024	130				35
2/23/2024					
8/20/2024		30.4			
8/21/2024	124		19.7	6	
8/22/2024					37.6
2/25/2025		27.3	17.3	4.8	
2/26/2025	132				32.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
6/1/2016	1.6	1.3	1.3						
6/2/2016				1.4	3.7	7.2	1.9	4.3	4.1
6/6/2016									
6/7/2016									
7/25/2016	1.4	1.3					1.7		
7/26/2016			1.2	1.6	3.6	6.6		4.4	4
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	1.3		1.1						
9/14/2016		1.3			3.4	6.6		3.8	
9/15/2016				1.5					4.2
9/16/2016									
9/19/2016							1.6		
11/1/2016		1.4	1.3	1.7			1.8		
11/2/2016					4.5	7.6			4.9
11/3/2016									
11/4/2016	1.6							4.8	
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017									4.1
1/11/2017		1.1	1.1	1.2					
1/12/2017						6.8		3.8	
1/13/2017					4.2				
1/16/2017	1.4						1.7		
2/21/2017							1.7		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		1.1							
3/2/2017	1.3		1	1.2					
3/3/2017									
3/6/2017					3.6				
3/7/2017						6.8		4.5	
3/8/2017									4.2
4/26/2017		1.1		1.2			1.7		4.1
4/27/2017	1.3		1						
4/28/2017									
5/1/2017					4.3	7.2			
5/2/2017								4.6	
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	1.4		1.1			7		4.3	
6/28/2017		1.2		1.3					
6/29/2017					4.2				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
6/30/2017							1.8		3.7
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	1.7		1.1			6.5		4.2	
10/4/2017		1.2		1.5			1.8		
10/5/2017					4.7				3.8
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			1.1						
6/6/2018	1.4					4.7			
6/7/2018				1.2	4.4			4.5	
6/8/2018		1.2							3.4
6/11/2018							2		
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					4.8	4.8		5.1	
10/1/2018	1.4	1.2	1.1	1.5					3.8
10/2/2018							1.8		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	1.5		1.4						
3/29/2019									4.2
4/1/2019		1.1		1.2			1.7		
4/2/2019									
4/3/2019					4.3	4		4.2	
6/12/2019									
9/24/2019	1.3		1.1			3.7		4.5	
9/25/2019		1.1		1.1	4.5		1.6		4.8
9/26/2019									
10/8/2019									
10/9/2019									
10/10/2019						4.3		1.6	
3/17/2020									
3/18/2020	1.4								5.2
3/19/2020		1.1	1.1	1.2			1.8		
3/24/2020						3.5		4.3	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
3/25/2020					3.9				
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020					4.5	3.6		4.2	
9/23/2020	1.2	1	0.99 (J)	1.1					
9/24/2020							1.5		
9/25/2020									5.3
10/7/2020									
11/12/2020									
3/1/2021							1.6		
3/2/2021						3.2		4.3	4.9
3/3/2021	1.2	0.99 (J)	0.96 (J)	1.1	4.1 (J)				
3/4/2021									
8/19/2021	1.3		1.1	1.1			1.6		5
8/20/2021									
8/26/2021					4.4	3.4		4.3	
8/27/2021		1.1							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1.3	1.1	1	1.1					
2/10/2022						3.2		4.4	4.7
2/11/2022					4.1		2.1		
8/30/2022			1.3			3.5		4.4	
8/31/2022	1.5	1.3		1.3	4.4		1.8		4.6
2/7/2023	1.5		1.3			3.3			
2/8/2023		1.1		1.2			1.6		4.9
2/9/2023					4.5			5	
2/10/2023									
8/15/2023	1.4		1.1	1.1	4.4	3.1		4.1	4.1
8/16/2023		1.1					1.5		
2/20/2024	1.2	1.1	1	1.1	4.6	3.2	1.4	4.8	
2/21/2024									
2/23/2024									4.8
8/20/2024	1.3	1	1	1.1	5.2	3.4	1.4	4.8	4.5
8/21/2024									
8/22/2024									
2/25/2025	1.1	0.9 (J)	0.9 (J)	0.94 (J)	4.5	2.8	1.3	4.4	4.1
2/26/2025									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			1.9	4.5	2.8				
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	1.9	4.5					
7/28/2016					2.6				
8/30/2016						5.2			
8/31/2016							13	5.8	4
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1			4.5					
9/19/2016		7	1.9		2.4				
11/1/2016									
11/2/2016			2.6						
11/3/2016	7.4	7.5		5.4	2.9				
11/4/2016									
11/14/2016						6.4		5.8	
11/15/2016							14		
11/16/2016									
11/28/2016									4.2
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5		4.7					
1/12/2017									
1/13/2017			2.3		2.5				
1/16/2017									
2/21/2017									
2/22/2017									3.7
2/24/2017						5.5			
2/27/2017								5	
2/28/2017							12		
3/1/2017	6	6.9							
3/2/2017				4.8					
3/3/2017									
3/6/2017			1.9		2.1				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7	2		2.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				4.6					
5/8/2017						5.8	13		4.2
5/9/2017								4.6	
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							
6/29/2017			2.6	4.5	2.8				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/30/2017									
7/11/2017						5.8			
7/13/2017							13	4.7	
7/17/2017									3.8
10/3/2017					2.2				
10/4/2017	6.8		2.6	4.7					
10/5/2017		7							
10/10/2017						5.9	14	4.5	
10/11/2017									
10/12/2017									
10/16/2017									4.2
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									4.3
2/20/2018									
4/2/2018						4.8			
4/3/2018								4.6	
4/4/2018							13.4		
6/5/2018					1.7				
6/6/2018			2.7						
6/7/2018		6.8							
6/8/2018									
6/11/2018	6.8			4.9					
6/28/2018									
8/6/2018									3.8
8/7/2018									
9/19/2018						4	14.2	4.7	
9/24/2018									
9/25/2018	7.8	7.9	3.6	5.6	2.2				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									4.1
3/26/2019									
3/27/2019						4.3	14	4.6	
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				4.8	2.5				
4/3/2019	6.3	6.9	3.1						
6/12/2019									4.7
9/24/2019					3.1				
9/25/2019			2.8	5.7					
9/26/2019	7.1	7							
10/8/2019						4.4	14.8		5.1
10/9/2019								4.95 (D)	
10/10/2019			3.7	5.8	3.3				
3/17/2020						4.1	14	4.6	4.8
3/18/2020									
3/19/2020									
3/24/2020	6.8	7	2.7	5	2.8				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
3/25/2020									
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						4.2	14.4		4.2
9/23/2020	7.2	7.2		6.6				4.9	
9/24/2020			2.7		2				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						3.7	14	5	
3/2/2021									4.1
3/3/2021	7.2	7	2.7	7.1					
3/4/2021					1.8				
8/19/2021						3.5	13	4.1	
8/20/2021									5.2
8/26/2021	7.3								
8/27/2021		7.4	2.8	8.5					
9/1/2021					1.8				
9/3/2021									
2/8/2022						3.2			5.7
2/9/2022	7	7.5	2.8	10.9	1.7		13.5	4.9	
2/10/2022									
2/11/2022									
8/30/2022	7	7.9		12	2.4				6.3
8/31/2022			2.9			3.5	14.5	5.4	
2/7/2023	6.4	7.4	2.9	11.4	2.4				6.1
2/8/2023						3.5	14.9		
2/9/2023								5.9	
2/10/2023									
8/15/2023	6.7	7.3	2.8	11.6	2.3	3.5	13.4	5.6	5.6
8/16/2023									
2/20/2024		7.6	2.9	12.2	2.3	3.2			6.1
2/21/2024							13.2	6	
2/23/2024	6.6								
8/20/2024		7.8	3	12.7	2.3	3.6			
8/21/2024	7.4						13.3	6.5	
8/22/2024									
2/25/2025	6.5	7	2.6	11.4	2	3			
2/26/2025							11.7	6.4	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	37				
9/13/2016					
9/14/2016		1.1			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		1.4			
11/14/2016					
11/15/2016					
11/16/2016	37				
11/28/2016					
12/15/2016		2.9			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		0.98			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	33				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		1.1			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		0.91			
5/1/2017					
5/2/2017					
5/8/2017	33				
5/9/2017					
5/26/2017		0.93			
6/27/2017					
6/28/2017		1			
6/29/2017					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	32				
7/17/2017					
10/3/2017		1.2			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	29		2.4		
10/12/2017				3.8	
10/16/2017					
11/20/2017			1.8	4.4	
1/10/2018				4.6	
1/11/2018			1.6		
2/19/2018				4.6	
2/20/2018			2		
4/2/2018					
4/3/2018			3.3	5.9	
4/4/2018	26.6				
6/5/2018					
6/6/2018					
6/7/2018		1			
6/8/2018					
6/11/2018					
6/28/2018			2.1	5	
8/6/2018					
8/7/2018			1.2	4.3	
9/19/2018	26.5				
9/24/2018			1.3	4.9	
9/25/2018					
9/26/2018					
10/1/2018		1.1			
10/2/2018					
2/25/2019					
3/26/2019				4.4	
3/27/2019	20.9		1.4		
3/28/2019					
3/29/2019		1.2			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		0.95 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	25		2.05 (D)	5.05 (D)	
10/10/2019					
3/17/2020	24.8				
3/18/2020					
3/19/2020		0.97 (J)			
3/24/2020				4.7	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/25/2020			1.9		
7/6/2020	25.8				
8/27/2020					3.9
8/28/2020	25.9				
9/22/2020					4.1
9/23/2020	28.1	0.88 (J)			
9/24/2020			2.7	5	
9/25/2020					
10/7/2020	28.2				4
11/12/2020	26.7				3.8
3/1/2021					3.7
3/2/2021	27.4				
3/3/2021		0.86 (J)			
3/4/2021			4.9	4.9	
8/19/2021					
8/20/2021					3.1
8/26/2021			7.2		
8/27/2021	29.3	0.99 (J)			
9/1/2021					
9/3/2021				5.5	
2/8/2022			7.4	6.2	
2/9/2022	28.2	1 (J)			3.2
2/10/2022					
2/11/2022					
8/30/2022		1.2			
8/31/2022	29.9		6.7	6.3	3.4
2/7/2023		1.1	5.6		
2/8/2023				6.9	
2/9/2023					
2/10/2023	33.5				3.3
8/15/2023	32.2	0.93 (J)	4.5	5.6	3
8/16/2023					
2/20/2024		0.96 (J)	4.6	5.7	
2/21/2024	36.3				2.9
2/23/2024					
8/20/2024		0.91 (J)			
8/21/2024	39.6		4	5.4	
8/22/2024					3
2/25/2025		0.77 (J)	3.5	4.5	
2/26/2025	35.2				2.6

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	<0.1	0.12 (J)	0.15 (J)						
6/2/2016				<0.1	<0.1	<0.1	<0.1	0.62	0.11 (J)
6/6/2016									
6/7/2016									
7/25/2016	0.06 (J)		0.14 (J)				0.06 (J)		
7/26/2016		0.08 (J)		0.02 (J)	<0.1	<0.1		0.49	0.05 (J)
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	<0.1	0.11 (J)							
9/14/2016			0.18 (J)		<0.1	<0.1			0.04 (J)
9/15/2016				<0.1				0.54	
9/16/2016									
9/19/2016							<0.1		
11/1/2016		0.1 (J)	0.15 (J)				0.07 (J)	0.68	
11/2/2016				0.04 (J)		0.07 (J)			0.2 (J)
11/3/2016									
11/4/2016	0.07 (J)				<0.1				
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017				<0.1					
1/11/2017		0.05 (J)	0.09 (J)					0.49	
1/12/2017					<0.1				0.04 (J)
1/13/2017						<0.1			
1/16/2017	0.03 (J)						<0.1		
2/21/2017							0.05 (J)		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			0.2 (J)						
3/2/2017	0.06 (J)	0.09 (J)						0.48	
3/3/2017									
3/6/2017						0.05 (J)			
3/7/2017					0.03 (J)				0.09 (J)
3/8/2017				0.04 (J)					
4/26/2017			0.08 (J)	<0.1			<0.1	0.48	
4/27/2017	0.01 (J)	0.04 (J)							
4/28/2017									
5/1/2017						<0.1			0.04 (J)
5/2/2017					<0.1				
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	0.06 (J)	0.06 (J)			<0.1				0.09 (J)
6/28/2017			0.12 (J)					0.47	
6/29/2017						0.02 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/30/2017				<0.1			0.01 (J)		
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	<0.1	0.07 (J)			<0.1				0.05 (J)
10/4/2017			0.1 (J)				<0.1	0.47	
10/5/2017				<0.1		<0.1			
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018	<0.1			<0.1			<0.1		
3/28/2018			<0.1					0.56	
3/29/2018		<0.1			<0.1	<0.1			<0.1
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		0.055 (J)							
6/6/2018	<0.1								0.15 (J)
6/7/2018					<0.1	<0.1		0.48	
6/8/2018			0.2 (J)	<0.1					
6/11/2018							<0.1		
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					<0.1	<0.1			<0.1
10/1/2018	<0.1	<0.1	<0.1	<0.1				0.44	
10/2/2018							<0.1		
2/25/2019									
2/26/2019				<0.1			<0.1		
2/27/2019	<0.1	0.052 (J)	0.13 (J)					0.53	
3/4/2019					<0.1	<0.1			0.19 (J)
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.1	0.036 (J)							
3/29/2019				<0.1					
4/1/2019			0.1 (J)				<0.1	0.45	
4/2/2019									
4/3/2019					<0.1	<0.1			0.047 (J)
6/12/2019									
8/19/2019									
8/20/2019									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
8/21/2019									
9/24/2019	<0.1	0.063 (J)			<0.1				0.05 (J)
9/25/2019			0.1 (J)	<0.1		<0.1	<0.1	0.46	
9/26/2019									
10/8/2019									
10/9/2019									
10/10/2019					1.1				0.16 (J)
2/10/2020	<0.1	0.061 (J)							
2/11/2020			0.094 (J)						
2/12/2020				<0.1	<0.1	<0.1	<0.1	0.4	<0.1
3/17/2020									
3/18/2020	<0.1			<0.1					
3/19/2020		0.064 (J)	0.11 (J)				<0.1	0.51	
3/24/2020					<0.1				<0.1
3/25/2020						<0.1			
7/6/2020									
8/26/2020									
8/27/2020									
8/28/2020									
9/22/2020					<0.1	<0.1			0.056 (J)
9/23/2020	<0.1	0.058 (J)	0.098 (J)					0.47	
9/24/2020							<0.1		
9/25/2020				<0.1					
10/7/2020									
11/12/2020									
2/8/2021					<0.1				0.055 (J)
2/9/2021						<0.1			
2/10/2021			<0.1	<0.1				0.43	
2/11/2021							<0.1		
2/12/2021	<0.1	0.068 (J)							
3/1/2021							<0.1		
3/2/2021				<0.1	<0.1				<0.1
3/3/2021	<0.1	0.078 (J)	0.1			<0.1		0.44	
3/4/2021									
8/19/2021	<0.1	0.074 (J)		<0.1			<0.1	0.47	
8/20/2021									
8/26/2021					<0.1	<0.1			0.061 (J)
8/27/2021			0.12						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.1	0.057 (J)	0.097 (J)					0.43	
2/10/2022				<0.1	<0.1				0.055 (J)
2/11/2022						<0.1	<0.1		
8/30/2022		0.093 (J)			<0.1				0.085 (J)
8/31/2022	0.065 (J)		0.13	0.053 (J)		0.061 (J)	0.06 (J)	0.42	
2/7/2023	0.071 (J)	0.093 (J)							0.082 (J)
2/8/2023			0.16	0.059 (J)			0.064 (J)	0.56	
2/9/2023					<0.1	0.067 (J)			
2/10/2023									
8/15/2023	<0.1	0.057 (J)		<0.1	<0.1	<0.1		0.42	<0.1
8/16/2023			0.11				<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
2/20/2024	<0.1	0.086 (J)	0.12		<0.1	0.059 (J)	0.051 (J)	0.45	0.076 (J)
2/21/2024									
2/23/2024				<0.1					
8/20/2024	<0.1	0.066 (J)	0.12	<0.1	<0.1	<0.1	<0.1	0.45	0.058 (J)
8/21/2024									
8/22/2024									
2/25/2025	0.06 (J)	0.094 (J)	0.14	0.052 (J)	<0.1	0.061 (J)	0.062 (J)	0.45	0.082 (J)
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-45	GWA-2 (bg)	YGWC-44
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1	<0.1					
7/28/2016					0.02 (J)				
8/30/2016						0.09 (J)			
8/31/2016							0.11 (J)	0.14 (J)	<0.1
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	<0.1			<0.1					
9/19/2016		<0.1	<0.1		0.02 (J)				
11/1/2016									
11/2/2016			<0.1						
11/3/2016	<0.1	<0.1		<0.1	0.07 (J)				
11/4/2016									
11/14/2016						0.18 (J)	0.71		
11/15/2016									0.12 (J)
11/16/2016									
11/28/2016								0.12 (J)	
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1		<0.1					
1/12/2017									
1/13/2017			<0.1		<0.1				
1/16/2017									
2/21/2017									
2/22/2017								0.09 (J)	
2/24/2017						0.05 (J)			
2/27/2017							0.22 (J)		
2/28/2017									0.07 (J)
3/1/2017	0.03 (J)	0.03 (J)							
3/2/2017				0.04 (J)					
3/3/2017									
3/6/2017			0.04 (J)		0.09 (J)				
3/7/2017									
3/8/2017									
4/26/2017	<0.1	<0.1	<0.1		0.04 (J)				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				<0.1					
5/8/2017						0.03 (J)		0.05 (J)	0.04 (J)
5/9/2017							0.2 (J)		
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			0.03 (J)	0.02 (J)	0.05 (J)				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-45	GWA-2 (bg)	YGWC-44
6/30/2017									
7/11/2017						0.07 (J)			
7/13/2017							0.11 (J)		<0.1
7/17/2017								0.14 (J)	
10/3/2017					0.08 (J)				
10/4/2017	<0.1		<0.1	<0.1					
10/5/2017		<0.1							
10/10/2017						<0.1	0.39		<0.1
10/11/2017									
10/12/2017									
10/16/2017								0.12 (J)	
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<0.1	
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1		<0.1					
3/29/2018			<0.1		<0.1				
4/2/2018						<0.1			
4/3/2018							<0.1		
4/4/2018									<0.1
6/5/2018					0.13 (J)				
6/6/2018			<0.1						
6/7/2018		<0.1							
6/8/2018									
6/11/2018	<0.1			<0.1					
6/28/2018									
8/6/2018								0.087 (J)	
8/7/2018									
9/19/2018						<0.1	<0.1		<0.1
9/24/2018									
9/25/2018	<0.1	<0.1	<0.1	<0.1	0.029 (J)				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								0.14 (J)	
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019	<0.1		<0.1	<0.1	0.32				
3/6/2019		<0.1							
3/26/2019									
3/27/2019						0.081 (J)	0.18 (J)		<0.1
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				<0.1	0.12 (J)				
4/3/2019	<0.1	<0.1	<0.1						
6/12/2019								0.12 (J)	
8/19/2019								<0.1	
8/20/2019						<0.1	<0.1		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-45	GWA-2 (bg)	YGWC-44
8/21/2019									
9/24/2019					0.15 (J)				
9/25/2019			<0.1	<0.1					
9/26/2019	<0.1	<0.1							
10/8/2019						0.034 (J)		0.052 (J)	<0.1 (D)
10/9/2019							<0.1 (D)		
10/10/2019			0.099 (J)	<0.1	0.11 (J)				
2/10/2020									
2/11/2020	<0.1	<0.1		<0.1					
2/12/2020			<0.1		0.1 (J)				
3/17/2020						<0.1	0.076 (J)	0.053 (J)	<0.1
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0.1	<0.1	<0.1	0.081 (J)				
3/25/2020									
7/6/2020									
8/26/2020								0.068 (J)	
8/27/2020						<0.1			<0.1
8/28/2020							0.07 (J)		
9/22/2020						<0.1		0.058 (J)	<0.1
9/23/2020	<0.1	<0.1		<0.1			0.082 (J)		
9/24/2020			<0.1		0.079 (J)				
9/25/2020									
10/7/2020									
11/12/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	<0.1	<0.1	0.092 (J)				
2/10/2021									
2/11/2021									
2/12/2021									
3/1/2021						<0.1	0.073 (J)		<0.1
3/2/2021								0.073 (J)	
3/3/2021	<0.1	<0.1	<0.1	<0.1					
3/4/2021					0.091 (J)				
8/19/2021						<0.1	0.075 (J)		<0.1
8/20/2021								0.06 (J)	
8/26/2021	<0.1								
8/27/2021		<0.1	<0.1	<0.1					
9/1/2021					0.11				
9/3/2021									
2/8/2022						<0.1		0.064 (J)	
2/9/2022	<0.1	<0.1	<0.1	<0.1	0.1		0.063 (J)		<0.1
2/10/2022									
2/11/2022									
8/30/2022	<0.1	<0.1		<0.1	0.1			0.086 (J)	
8/31/2022			<0.1			0.065 (J)	0.1		0.055 (J)
2/7/2023	<0.1	<0.1	<0.1	<0.1	0.1			0.095 (J)	
2/8/2023						0.077 (J)			0.062 (J)
2/9/2023							0.11		
2/10/2023									
8/15/2023	<0.1	<0.1	<0.1	<0.1	0.061 (J)	<0.1	0.07 (J)	0.065 (J)	<0.1
8/16/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-45	GWA-2 (bg)	YGWC-44
2/20/2024		<0.1	<0.1	<0.1	0.083 (J)	0.073 (J)		0.094 (J)	
2/21/2024							0.099 (J)		<0.1
2/23/2024	<0.1								
8/20/2024		<0.1	<0.1	<0.1	0.062 (J)	<0.1			
8/21/2024	0.051 (J)						0.077 (J)		<0.1
8/22/2024									
2/25/2025	<0.1	<0.1	<0.1	<0.1	0.088 (J)	0.069 (J)			
2/26/2025							0.069 (J)		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	0.08 (J)				
9/13/2016					
9/14/2016		0.08 (J)			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		0.12 (J)			
11/14/2016					
11/15/2016					
11/16/2016	0.04 (J)				
11/28/2016					
12/15/2016		0.06 (J)			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		0.1 (J)			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	0.05 (J)				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		0.11 (J)			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		0.06 (J)			
5/1/2017					
5/2/2017					
5/8/2017	0.004 (J)				
5/9/2017					
5/26/2017		0.09 (J)			
6/27/2017					
6/28/2017		0.11 (J)			
6/29/2017					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	0.35				
7/17/2017					
10/3/2017		0.12 (J)			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	<0.1		<0.1		
10/12/2017				<0.1	
10/16/2017					
11/20/2017			<0.1	<0.1	
1/10/2018				<0.1	
1/11/2018			<0.1		
2/19/2018				<0.1	
2/20/2018			<0.1		
3/27/2018					
3/28/2018		0.31			
3/29/2018					
4/2/2018					
4/3/2018			<0.1	<0.1	
4/4/2018	<0.1				
6/5/2018					
6/6/2018					
6/7/2018		0.11 (J)			
6/8/2018					
6/11/2018					
6/28/2018			<0.1	<0.1	
8/6/2018					
8/7/2018			0.048 (J)	<0.1	
9/19/2018	<0.1				
9/24/2018			<0.1	<0.1	
9/25/2018					
9/26/2018					
10/1/2018		<0.1			
10/2/2018					
2/25/2019					
2/26/2019					
2/27/2019		0.12 (J)			
3/4/2019					
3/5/2019					
3/6/2019					
3/26/2019				<0.1	
3/27/2019	0.12 (J)		<0.1		
3/28/2019					
3/29/2019		0.13 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
8/19/2019					
8/20/2019					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
8/21/2019	<0.1		<0.1	<0.1	
9/24/2019		0.081 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	0.12 (J)		<0.1	<0.1	
10/10/2019					
2/10/2020					
2/11/2020		0.075 (J)			
2/12/2020			<0.1	<0.1	
3/17/2020	<0.1				
3/18/2020					
3/19/2020		0.093 (J)			
3/24/2020				<0.1	
3/25/2020			<0.1		
7/6/2020	0.12				
8/26/2020					
8/27/2020					<0.1
8/28/2020	0.12				
9/22/2020					<0.1
9/23/2020	0.12	0.08 (J)			
9/24/2020			<0.1	<0.1	
9/25/2020					
10/7/2020	0.13				<0.1
11/12/2020	0.084 (J)				<0.1
2/8/2021					
2/9/2021					
2/10/2021		0.094 (J)	<0.1	<0.1	
2/11/2021					
2/12/2021					
3/1/2021					<0.1
3/2/2021	0.12				
3/3/2021		0.085 (J)			
3/4/2021			<0.1	<0.1	
8/19/2021					
8/20/2021					<0.1
8/26/2021			0.063 (J)		
8/27/2021	0.13	0.12			
9/1/2021					
9/3/2021				<0.1	
2/8/2022			0.052 (J)	<0.1	
2/9/2022	0.12	0.094 (J)			<0.1
2/10/2022					
2/11/2022					
8/30/2022		0.12			
8/31/2022	0.12		0.065 (J)	0.05 (J)	0.059 (J)
2/7/2023		0.12	0.076 (J)		
2/8/2023				<0.1	
2/9/2023					
2/10/2023	0.17				0.063 (J)
8/15/2023	0.12	0.081 (J)	<0.1	<0.1	<0.1
8/16/2023					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
2/20/2024		0.1	0.063 (J)	<0.1	
2/21/2024	0.11				0.054 (J)
2/23/2024					
8/20/2024		0.085 (J)			
8/21/2024	0.1		0.083 (J)	0.06 (J)	
8/22/2024					<0.1
2/25/2025		0.12	0.078 (J)	0.053 (J)	
2/26/2025	0.075 (J)				<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13								
2/16/2016	5.64								
6/1/2016		7.72	6.33	7.46					
6/2/2016					5.75	5.46	5.75	7.67	6.36
6/6/2016									
6/7/2016									
7/25/2016		7.74	6.21		5.82				
7/26/2016				7.43		5.45	5.72	7.66	6.22
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	6.32								
9/1/2016									
9/13/2016			6.16	7.44					
9/14/2016		7.65					5.74	7.6	6.23
9/15/2016						5.45			
9/16/2016									
9/19/2016					5.78				
11/1/2016		7.7		7.24	5.62				
11/2/2016						5.41		7.35	6.08
11/3/2016									
11/4/2016			6.29				5.61		
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017						5.37			
1/11/2017		7.53		7.3					
1/12/2017							5.71	7.49	
1/13/2017									6.19
1/16/2017			6.29		5.72				
2/21/2017					5.67				
2/22/2017	6.21								
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		7.42							
3/2/2017			6.28	7.23					
3/3/2017									
3/6/2017									6.2

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
3/7/2017							5.66	7.43	
3/8/2017						5.41			
4/26/2017		7.4			5.56	5.02			
4/27/2017			6.09	6.99					
4/28/2017									
5/1/2017								7.22	6.21
5/2/2017							5.65		
5/8/2017	6.12								
5/9/2017									
5/26/2017									
6/27/2017			6.21	6.87			5.7	7.32	
6/28/2017		7.5							
6/29/2017									6.21
6/30/2017					5.72	5.39			
7/11/2017									
7/13/2017									
7/17/2017	6.03								
10/3/2017			5.98	6.81			5.79	7.48	
10/4/2017		7.45			5.87				
10/5/2017						5.49			6.16
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018			6.25		5.83	5.47			
3/28/2018		7.74							
3/29/2018				7.38			5.63	7.02	6.09
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018				7.16					
6/6/2018			6.17					7.43	
6/7/2018							5.63		6.12
6/8/2018		7.64				5.45			
6/11/2018					5.69				
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018							5.63	7.13	5.84
10/1/2018		7.47	5.9	6.8		5.39			
10/2/2018					5.39				
2/25/2019	6.51								
2/26/2019					5.77	5.46			
2/27/2019		7.54	5.8	6.84					

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
3/4/2019							5.75	7.46	6.18
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019			6.15	6.99					
3/29/2019						5.34			
4/1/2019		7.74			5.62				
4/2/2019									
4/3/2019							5.63	7.11	6.43
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
9/24/2019			6.23	7.07			5.6	6.93	
9/25/2019		7.47			5.69	5.19			6.2
9/26/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020			6.1	7.2					
2/11/2020		7.09							
2/12/2020					5.8	5.48	5.83	7.52	6.15
3/17/2020	6.14								
3/18/2020			6.19			5.38			
3/19/2020		7.31		7.03	6				
3/24/2020							5.81	7.34	
3/25/2020									6.26
5/6/2020	6.24								
7/6/2020									
8/26/2020	5.67								
8/27/2020									
8/28/2020									
9/22/2020	5.78						5.99	7.19	5.8
9/23/2020		7.37	6.01	7.15					
9/24/2020					5.67				
9/25/2020						5.44			
10/7/2020									
11/12/2020									
2/8/2021							5.67	7.66	
2/9/2021									6.06
2/10/2021		7.58				5.35			
2/11/2021					5.73				
2/12/2021			6.21	7.14					
3/1/2021					5.78				
3/2/2021	5.42					5.49	5.63	7.15	
3/3/2021		8.13	5.38	7.2					6.21
3/4/2021									
8/19/2021			6.38	6.32	5.43	7.32			
8/20/2021	5.86								
8/26/2021							5.51	7.16	5.82
8/27/2021		7.39							
9/1/2021									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
9/3/2021									
2/8/2022	5.83								
2/9/2022		7.66	6.24	7.12					
2/10/2022						4.5	5.14	6.99	
2/11/2022					5.59				5.95
8/30/2022	5.39			7.2			5	7.4	
8/31/2022		7.49	5.64		5.87	5.15			5.5
2/7/2023	5.94		6.53	7.86				6.64	
2/8/2023		7.73			6.43	5.39			
2/9/2023							5.9		6.23
2/10/2023									
8/15/2023	5.3		5.88	6.98		5.03	5.58	7.34	5.99
8/16/2023		7.39			5.55				
2/20/2024	6.07	7.59	6.42	7.06	5.81		5.78	7.56	6.21
2/21/2024									
2/23/2024						5.39			
8/20/2024		7.45	5.77	7.18	6.07	5.49	5.58	7.3	6.03
8/21/2024									
8/22/2024									
2/25/2025		7.55	6.02	7.18	5.45	5.16	5.77	7.4	5.98
2/26/2025									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	7.84								
6/6/2016		5.71	6.17						
6/7/2016				5.77	5.62	6.1			
7/25/2016									
7/26/2016	7.88								
7/27/2016		5.46	6.14	5.79	5.59				
7/28/2016						6.12			
8/30/2016							5.75		
8/31/2016								7.15	6.01
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016	7.74								
9/16/2016					5.58				
9/19/2016		5.59	6.04	5.73		6.12			
11/1/2016	7.75								
11/2/2016				5.67					
11/3/2016		5.39	5.97		5.59	6.07			
11/4/2016									
11/14/2016							5.59	6.96	
11/15/2016									5.91
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	7.66	5.48	6.05		5.59				
1/12/2017									
1/13/2017				5.79		6.41			
1/16/2017									
2/21/2017									
2/22/2017									
2/24/2017							5.49		
2/27/2017								6.79	
2/28/2017									5.85
3/1/2017		5.41	5.94						
3/2/2017	7.68				5.54				
3/3/2017									
3/6/2017				5.63		6.34			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44
3/7/2017									
3/8/2017									
4/26/2017	7.45	5.4	5.99	5.66		6.32			
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					5.47				
5/8/2017							5.58		5.91
5/9/2017								6.9	
5/26/2017									
6/27/2017									
6/28/2017	7.65	5.36	6						
6/29/2017				5.85	5.56	6.47			
6/30/2017									
7/11/2017							5.58		
7/13/2017								6.77	5.8
7/17/2017									
10/3/2017						6.56			
10/4/2017	7.49	5.32		5.83	5.57				
10/5/2017			6.11						
10/10/2017							5.49	6.9	5.76
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	7.91	5.34	6.1		5.59				
3/29/2018				5.93		6.75			
4/2/2018							6.3		
4/3/2018								6.44	
4/4/2018									5.77
6/5/2018						6.09			
6/6/2018				5.86					
6/7/2018	7.69		5.98						
6/8/2018									
6/11/2018		5.28			5.58				
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018							5.48	6.47	5.77
9/24/2018									
9/25/2018		4.86	5.81	5.84	5.59	6.67			
9/26/2018									
10/1/2018	7.39								
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019	7.55								

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44
3/4/2019									
3/5/2019		5.26		6.07	5.48	7.22			
3/6/2019			5.99						
3/26/2019									
3/27/2019							5.83	7.18	6.1
3/28/2019									
3/29/2019									
4/1/2019	7.87								
4/2/2019					5.74	6.94			
4/3/2019		5.47	6.29	5.71					
6/12/2019									
8/19/2019									
8/20/2019							5.58	6.48	5.78
8/21/2019									
9/24/2019						6.87			
9/25/2019	7.64			5.86	5.49				
9/26/2019		5.2	6.04						
10/8/2019							5.59		5.84
10/9/2019								6.55	
2/10/2020									
2/11/2020		5.3	6.07		5.58				
2/12/2020	7.83			6		7.13			
3/17/2020							5.57	6.69	5.9
3/18/2020									
3/19/2020	7.65								
3/24/2020		5.33	5.98	5.86	5.57	6.35			
3/25/2020									
5/6/2020									
7/6/2020									
8/26/2020									
8/27/2020							4.88		5.75
8/28/2020								6.84	
9/22/2020							5.46		5.53
9/23/2020	7.57	5.29	6.01		5.58			6.57	
9/24/2020				5.8		6.7			
9/25/2020									
10/7/2020									
11/12/2020									
2/8/2021									
2/9/2021		5.43	6.12	5.86	5.62	6.95			
2/10/2021	7.81								
2/11/2021									
2/12/2021									
3/1/2021							5.48	6.5	5.76
3/2/2021									
3/3/2021	8.39	5.31	5.89	5.89	5.52				
3/4/2021						6.8			
8/19/2021	5.34						5.5	6.13	5.73
8/20/2021								6.13	
8/26/2021		4.4							
8/27/2021			5.4	5.57	5.27				
9/1/2021						6.65			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44
9/3/2021									
2/8/2022							5.4		
2/9/2022	7.97	5.28	5.98	5.91	5.53	6.84		6.15	5.73
2/10/2022									
2/11/2022									
8/30/2022		5.18	5.89		4.68	6.58			
8/31/2022	7.65			5.38			5.32	6.56	5.77
2/7/2023		5.03	6	5.63	5.47	6.82			
2/8/2023	7.88						5.22		5.6
2/9/2023								6.47	
2/10/2023									
8/15/2023	7.69	5.2	5.82	7	5.54	6.84	5.69	6.97	5.79
8/16/2023									
2/20/2024	7.81		6.11	5.99	5.64	6.78	5.62		
2/21/2024								6.35	5.82
2/23/2024		5.3							
8/20/2024	7.59		5.74	6	5.45	6.6	5.48		
8/21/2024		5.29						6.54	5.8
8/22/2024									
2/25/2025	7.79	6.26	6	6.07	5.59	6.55	5.52		
2/26/2025								6.63	5.78

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
8/27/2008					
3/3/2009					
11/18/2009					
3/3/2010					
3/10/2011					
9/8/2011					
3/5/2012					
9/10/2012					
2/6/2013					
8/12/2013					
2/5/2014					
8/3/2015					
2/16/2016					
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	6.19				
9/13/2016		7.41			
9/14/2016					
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		7.12			
11/14/2016					
11/15/2016					
11/16/2016	6.05				
11/28/2016					
12/15/2016		7.24			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		7.24			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	6.01				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		7.22			
3/6/2017					

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		7.21			
5/1/2017					
5/2/2017					
5/8/2017	6.1				
5/9/2017					
5/26/2017		7.13			
6/27/2017					
6/28/2017		7.06			
6/29/2017					
6/30/2017					
7/11/2017					
7/13/2017	6.07				
7/17/2017					
10/3/2017		6.99			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	5.93		6.4		
10/12/2017				5.43	
10/16/2017					
11/20/2017			6.33	5.1	
1/10/2018				4.97	
1/11/2018			6.29		
2/19/2018				5.6	
2/20/2018			7.22		
3/27/2018					
3/28/2018		7.3			
3/29/2018					
4/2/2018					
4/3/2018			6.87	5.84	
4/4/2018	6.01				
6/5/2018					
6/6/2018					
6/7/2018		7.29			
6/8/2018					
6/11/2018					
6/28/2018			6.18	5.24	
8/6/2018					
8/7/2018			6.08	5.18	
9/19/2018	6.09				
9/24/2018			5.81	5.14	
9/25/2018					
9/26/2018					
10/1/2018		7.07			
10/2/2018					
2/25/2019					
2/26/2019					
2/27/2019		7.27			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/4/2019					
3/5/2019					
3/6/2019					
3/26/2019				5.3	
3/27/2019	6.2		5.84		
3/28/2019					
3/29/2019		7.06			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
8/19/2019					
8/20/2019					
8/21/2019	5.82		5.96	5.26	
9/24/2019		7.01			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	5.96		5.81	5.22	
2/10/2020					
2/11/2020		7.38			
2/12/2020			5.97	5.3	
3/17/2020	5.99 (D)				
3/18/2020					
3/19/2020		7.22			
3/24/2020				5.29	
3/25/2020			5.78		
5/6/2020					
7/6/2020	6.89				
8/26/2020					
8/27/2020					5.8
8/28/2020	7.05				
9/22/2020					5.91
9/23/2020	6.81	7.22			
9/24/2020			5.7	5.43	
9/25/2020					
10/7/2020	7.06				5.87
11/12/2020	7.02				5.93
2/8/2021					
2/9/2021					
2/10/2021		7.29	5.8	5.19	
2/11/2021					
2/12/2021					
3/1/2021					5.84
3/2/2021	6.72				
3/3/2021		7.92			
3/4/2021			5.54	5.23	
8/19/2021					
8/20/2021					6.71
8/26/2021			6.91		
8/27/2021	6.83	7.16			
9/1/2021					

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
9/3/2021				5.01	
2/8/2022			5.78	5.26	
2/9/2022	6.98	5.86			5.99
2/10/2022					
2/11/2022					
8/30/2022		7.04			
8/31/2022	6.87		5.3	4.53	5.58
2/7/2023		6.94	5.49		
2/8/2023				5.71	
2/9/2023					
2/10/2023	7.32				6
8/15/2023	7.51	6.96	5.78	5	6.05
8/16/2023					
2/20/2024		7.23	5.97	5.32	
2/21/2024	7.51				5.74
2/23/2024					
8/20/2024		6.91			
8/21/2024	7.41		6	5.38	
8/22/2024					6.01
2/25/2025		7.14	5.81	5.07	
2/26/2025	6.85				5.97

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
6/1/2016	4.2	12	5						
6/2/2016				5.8	8	20	1.3	1.9	6.6
6/6/2016									
6/7/2016									
7/25/2016	3.7	8.4					1.2		
7/26/2016			5.4	6.7	7.7	20		1.8	6.1
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	5.2		2.9						
9/14/2016		8.6			7.5	19		1.8	
9/15/2016				6					6.1
9/16/2016									
9/19/2016							1.2		
11/1/2016		8.9	3.9	4.9			1.3		
11/2/2016					8.2	20			6.3
11/3/2016									
11/4/2016	5							2	
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017									5.9
1/11/2017		8.6	3.7	4.5					
1/12/2017						19		1.9	
1/13/2017					8.1				
1/16/2017	7.9						1.4		
2/21/2017							1.4		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		9.3							
3/2/2017	7.4		4.6	4.4					
3/3/2017									
3/6/2017					8				
3/7/2017						20		2.1	
3/8/2017									7
4/26/2017		11		5.1			1.4		7
4/27/2017	7.4		5.2						
4/28/2017									
5/1/2017					8.4	20			
5/2/2017								2	
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	6.4		5.9			18		2.1	
6/28/2017		12		5.4					
6/29/2017					9.2				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
6/30/2017							1.5		6.5
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	5.9		6.6			16		2.3	
10/4/2017		12		6.2			1.4		
10/5/2017					9.6				7.9
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			6.4						
6/6/2018	4.4					8.3			
6/7/2018				6.7	8.5			2	
6/8/2018		9.6							6.4
6/11/2018							1.1		
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					10.2	7.9		2.3	
10/1/2018	4	9.1	5.6	7.1					6.8
10/2/2018							1		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	4.3		8						
3/29/2019									7.3
4/1/2019		8.5		7.2			0.96 (J)		
4/2/2019									
4/3/2019					8.5	7		2.1	
6/12/2019									
9/24/2019	4.3		5.3			5.5		2.4	
9/25/2019		13.8		7	8.5		0.81 (J)		6.6
9/26/2019									
10/8/2019									
10/9/2019									
10/10/2019					9.2	<1		1.8	
3/17/2020									
3/18/2020	5.3								8.1
3/19/2020		12.9	10	9			1.6		
3/24/2020						5.9		2.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
3/25/2020					8.8				
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020					8.2	5.5		2.1	
9/23/2020	3.4	16.8	8.1	6.9					
9/24/2020							0.69 (J)		
9/25/2020									6.1
10/7/2020									
11/12/2020									
3/1/2021							0.88 (J)		
3/2/2021						2.6		2.3	6
3/3/2021	4.4	9.6	9	7	7.8				
3/4/2021									
8/19/2021	4.9		8.9	7.5			1		6.7
8/20/2021									
8/26/2021					8.5	6		2.4	
8/27/2021		18.2							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	5.1	16	9.3	7.2					
2/10/2022						4.9		2.4	6.2
2/11/2022					7.7		2.8		
8/30/2022			10.2			5.7		2.4	
8/31/2022	4.8	13.9		6.9	8		1.1		5.8
2/7/2023	6.6		10.6			5.2			
2/8/2023		14.7		7.5			0.96 (J)		6.1
2/9/2023					8.9			2.9	
2/10/2023									
8/15/2023	4.6		9.6	6.8	7.5	4.8		2.2	6
8/16/2023		20.3					0.9 (J)		
2/20/2024	4.3	13.8	9.7	7	8.5	5.1	0.69 (J)	2.5	
2/21/2024									
2/23/2024									7.1
8/20/2024	4.9	13.7	12.2	7.7	8.7	4.3	0.74 (J)	2.6	7.6
8/21/2024									
8/22/2024									
2/25/2025	3.5	10.9	10.4	6.7	7.4	4.6	0.74 (J)	2.2	6.5
2/26/2025									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			<1	4.4	5.2				
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	0.08 (J)	4.7					
7/28/2016					5.1				
8/30/2016						160			
8/31/2016							150	190	29
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.7			4.8					
9/19/2016		1.8	0.08 (J)		4.8				
11/1/2016									
11/2/2016			0.1 (J)						
11/3/2016	1.9	0.69 (J)		5.3	5				
11/4/2016									
11/14/2016						150		200	
11/15/2016							150		
11/16/2016									
11/28/2016									36
12/15/2016									
1/10/2017									
1/11/2017	1.7	0.99 (J)		5.2					
1/12/2017									
1/13/2017			0.1 (J)		4.3				
1/16/2017									
2/21/2017									
2/22/2017									43
2/24/2017						120			
2/27/2017								190	
2/28/2017							130		
3/1/2017	1.6	1.8							
3/2/2017				5					
3/3/2017									
3/6/2017			<1		4.5				
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6	<1		4.9				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5					
5/8/2017						120	150		60
5/9/2017								190	
5/26/2017									
6/27/2017									
6/28/2017	1.5	1.7							
6/29/2017			0.15 (J)	5.2	5.5				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/30/2017									
7/11/2017						110			
7/13/2017							150	180	
7/17/2017									63
10/3/2017					5.8				
10/4/2017	1.7		0.14 (J)	5.3					
10/5/2017		1.6							
10/10/2017						93	140	180	
10/11/2017									
10/12/2017									
10/16/2017									62
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									64.6
2/20/2018									
4/2/2018						88.8			
4/3/2018								183	
4/4/2018							137		
6/5/2018					6.1				
6/6/2018			0.049 (J)						
6/7/2018		0.68 (J)							
6/8/2018									
6/11/2018	0.95 (J)			5.2					
6/28/2018									
8/6/2018									42.1
8/7/2018									
9/19/2018						75	137	192	
9/24/2018									
9/25/2018	1.5	1	0.13 (J)	6.1	7				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									42.1
3/26/2019									
3/27/2019						65.9	146	188	
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				5.1	3.8				
4/3/2019	1.3	0.82 (J)	0.12 (J)						
6/12/2019									83.4
9/24/2019					1				
9/25/2019			<1	5.5					
9/26/2019	1	0.64 (J)							
10/8/2019						52.3	142		128
10/9/2019								183 (D)	
10/10/2019			0.058 (J)	5.5	3.6				
3/17/2020						71.6	121	161	98.6
3/18/2020									
3/19/2020									
3/24/2020	0.99 (J)	<1	<1	5.4	3				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
3/25/2020									
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						51.5	130		145
9/23/2020	1.1	0.53 (J)		5.1				170	
9/24/2020			<1		3.6				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						51.6	119	159	
3/2/2021									156
3/3/2021	1	<1	<1	5.2					
3/4/2021					4.5				
8/19/2021						52.6	115	149	
8/20/2021									121
8/26/2021	1.2								
8/27/2021		0.59 (J)	<1	5.3					
9/1/2021					5				
9/3/2021									
2/8/2022						50.9			107
2/9/2022	1.1	0.51 (J)	<1	4.8	3.9		121	164	
2/10/2022									
2/11/2022									
8/30/2022	1.3	0.78 (J)		4.7	3.2				101
8/31/2022			<1			48	130	177	
2/7/2023	1.2	0.78 (J)	<1	4.9	3.8				82.4
2/8/2023						50.5	130		
2/9/2023								193	
2/10/2023									
8/15/2023	0.88 (J)	0.51 (J)	<1	4.6	4.1	47.7	113	154	74.2
8/16/2023									
2/20/2024		<1	<1	4.6	3.8	51			75
2/21/2024							124	170	
2/23/2024	0.79 (J)								
8/20/2024		0.74 (J)	<1	4.6	4	53.9			
8/21/2024	1.1						121	166	
8/22/2024									
2/25/2025	0.59 (J)	<1	<1	3.6	3.3	48.3			
2/26/2025							112	161	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	770				
9/13/2016					
9/14/2016		9.4			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		13			
11/14/2016					
11/15/2016					
11/16/2016	780				
11/28/2016					
12/15/2016		1.8			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		11			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	650				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		8.8			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		10			
5/1/2017					
5/2/2017					
5/8/2017	770				
5/9/2017					
5/26/2017		12			
6/27/2017					
6/28/2017		11			
6/29/2017					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	630				
7/17/2017					
10/3/2017		7.9			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	540		20		
10/12/2017				17	
10/16/2017					
11/20/2017			24	71	
1/10/2018				66	
1/11/2018			23		
2/19/2018				57.2	
2/20/2018			20.6		
4/2/2018					
4/3/2018			24.5	49.4	
4/4/2018	430				
6/5/2018					
6/6/2018					
6/7/2018		8.8			
6/8/2018					
6/11/2018					
6/28/2018			22	43.8	
8/6/2018					
8/7/2018			20.7	40.5	
9/19/2018	395				
9/24/2018			21.2	39.7	
9/25/2018					
9/26/2018					
10/1/2018		9.1			
10/2/2018					
2/25/2019					
3/26/2019				34.3	
3/27/2019	437		17.7		
3/28/2019					
3/29/2019		9			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		9.1			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	<1		14.85 (D)	27.75 (D)	
10/10/2019					
3/17/2020	439				
3/18/2020					
3/19/2020		12.4			
3/24/2020				25.2	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/25/2020			14.3		
7/6/2020	385				
8/27/2020					144
8/28/2020	394				
9/22/2020					156
9/23/2020	430	11.8			
9/24/2020			11.7	22.9	
9/25/2020					
10/7/2020	427				156
11/12/2020	385				147
3/1/2021					139
3/2/2021	387				
3/3/2021		10.6			
3/4/2021			12	21.5	
8/19/2021					
8/20/2021					122
8/26/2021			19.2		
8/27/2021	423	16.7			
9/1/2021					
9/3/2021				21.3	
2/8/2022			14.6	17.9	
2/9/2022	415	18			119
2/10/2022					
2/11/2022					
8/30/2022		20.1			
8/31/2022	459		10.9	17.9	122
2/7/2023		17.8	9.7		
2/8/2023				17.5	
2/9/2023					
2/10/2023	517				114
8/15/2023	419	17.2	7.6	16.4	96.5
8/16/2023					
2/20/2024		23.1	8.6	17.2	
2/21/2024	511				98.9
2/23/2024					
8/20/2024		21.3			
8/21/2024	518		6.6	18.2	
8/22/2024					87.1
2/25/2025		13.8	6.5	15.4	
2/26/2025	463				86.6

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)
6/1/2016	54	150	120						
6/2/2016				130	46	36	160	96	66
6/6/2016									
6/7/2016									
7/25/2016	48	135				50			
7/26/2016			94	141	54		177	92	78
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	67		105						
9/14/2016		127					187	102	73
9/15/2016				153	54				
9/16/2016									
9/19/2016						35			
11/1/2016		75	44	92		<25			
11/2/2016					71		181	115	
11/3/2016									
11/4/2016	60								75
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					45				
1/11/2017		148	107	159					
1/12/2017							202		86
1/13/2017								67	
1/16/2017	65					47			
2/21/2017						<25			
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		182							
3/2/2017	61		98	117					
3/3/2017									
3/6/2017								159	
3/7/2017							257		108
3/8/2017					178				
4/26/2017		92		181	52	55			
4/27/2017	31		116						
4/28/2017									
5/1/2017							165	107	
5/2/2017									103
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	42		89				189		73
6/28/2017		126		169					
6/29/2017								79	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)
6/30/2017					45	42			
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	58		119				170		89
10/4/2017		147		141		31			
10/5/2017					40			95	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			127						
6/6/2018	96						151		
6/7/2018				95				90	142
6/8/2018		158			114				
6/11/2018						59			
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018							144	116	86
10/1/2018	60	138	117	165	50				
10/2/2018						57			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	87		87						
3/29/2019					63				
4/1/2019		19 (J)		149		54			
4/2/2019									
4/3/2019							142	111	83
6/12/2019									
9/24/2019	54		124				129		79
9/25/2019		159		157	64	51		117	
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	35				57				
3/19/2020		148	116	146		47			
3/24/2020							139		68
3/25/2020								146	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020							104	83	75
9/23/2020	15	155	108	157					
9/24/2020						51			
9/25/2020					54				
10/7/2020									
11/12/2020									
3/1/2021						23			
3/2/2021					67		52		67
3/3/2021	39	111	99	137				80	
3/4/2021									
8/19/2021	44		105	144	54	50			
8/20/2021									
8/26/2021							123	93	86
8/27/2021		155							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	57	145	105	154					
2/10/2022					56		127		77
2/11/2022						66		102	
8/30/2022			116				148		86
8/31/2022	46	137		141	51	33		92	
2/7/2023	121		131				180		
2/8/2023		145		144	56	43			
2/9/2023								124	59
2/10/2023									
8/15/2023	65		121	231	69		219	99	76
8/16/2023		148				48			
2/20/2024	59	220	130	294		55	639 (O)	140	137
2/21/2024									
2/23/2024					64				
8/20/2024	67	179	140	164	81	69	212	128	108
8/21/2024									
8/22/2024									
2/25/2025	47	136	121	147	64	51	146	105	83
2/26/2025									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			60	28	38				
7/25/2016									
7/26/2016									
7/27/2016	94	35		74	74				
7/28/2016			81						
8/30/2016						319			
8/31/2016							332	402	209
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35		67					
9/19/2016	92		68		45				
11/1/2016									
11/2/2016					53				
11/3/2016	104	48	61	41					
11/4/2016									
11/14/2016						280		445	
11/15/2016							356		
11/16/2016									
11/28/2016									102
12/15/2016									
1/10/2017									
1/11/2017	133	95		104					
1/12/2017									
1/13/2017			76		46				
1/16/2017									
2/21/2017									
2/22/2017									164
2/24/2017						162			
2/27/2017								346	
2/28/2017							483		
3/1/2017	119	79							
3/2/2017				77					
3/3/2017									
3/6/2017			167		164				
3/7/2017									
3/8/2017									
4/26/2017	162	36	50		34				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				142					
5/8/2017						194	296		145
5/9/2017								388	
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017			94	53	68				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
6/30/2017									
7/11/2017						193			
7/13/2017							345	433	
7/17/2017									185
10/3/2017			149						
10/4/2017		45		61	54				
10/5/2017	104								
10/10/2017						175	311	396	
10/11/2017									
10/12/2017									
10/16/2017									218
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									173
2/20/2018									
4/2/2018						192			
4/3/2018								418	
4/4/2018							313		
6/5/2018			109						
6/6/2018					79				
6/7/2018	68								
6/8/2018									
6/11/2018		74		70					
6/28/2018									
8/6/2018									158
8/7/2018									
9/19/2018						186	326	413	
9/24/2018									
9/25/2018	109	63	122	86	73				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									92
3/26/2019									
3/27/2019						170	302	383	
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			134	72					
4/3/2019	89	63			57				
6/12/2019									226
9/24/2019			157						
9/25/2019				81	75				
9/26/2019	126	72							
10/8/2019						172	324		276
10/9/2019								432	
3/17/2020						165	283	391	185
3/18/2020									
3/19/2020									
3/24/2020	91	59	117	71	76				
3/25/2020									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45	GWA-2 (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						141	294		281
9/23/2020	103	81		99				404	
9/24/2020			113		69				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						145	276	379	
3/2/2021									296
3/3/2021	95	37		57	53				
3/4/2021			110						
8/19/2021						134	333	391	
8/20/2021									254
8/26/2021		31							
8/27/2021	112			93	67				
9/1/2021			137						
9/3/2021									
2/8/2022						151			283
2/9/2022	103	60	131	81	72		311	400	
2/10/2022									
2/11/2022									
8/30/2022	100	52	122	81					244
8/31/2022					62	116	343	445	
2/7/2023	96	55	163	78	89				207
2/8/2023						141	337		
2/9/2023								394	
2/10/2023									
8/15/2023	96	81	126	74	62	186	319	404	230
8/16/2023									
2/20/2024	129		156	77	164	159			214
2/21/2024							309	418	
2/23/2024		52							
8/20/2024	128		143	86	75	155			
8/21/2024		79					320	442	
8/22/2024									
2/25/2025	110	69	110	93	69	147			
2/26/2025							309	456	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	1240				
9/13/2016					
9/14/2016		152			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		148			
11/14/2016					
11/15/2016					
11/16/2016	1220				
11/28/2016					
12/15/2016		191			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		180			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	1060				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		156			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		130			
5/1/2017					
5/2/2017					
5/8/2017	1160				
5/9/2017					
5/26/2017		223			
6/27/2017					
6/28/2017		166			
6/29/2017					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	996				
7/17/2017					
10/3/2017		153			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	835		68		
10/12/2017				74	
10/16/2017					
11/20/2017			139	179	
1/10/2018				140	
1/11/2018			153		
2/19/2018				119	
2/20/2018			87		
4/2/2018					
4/3/2018			85	106	
4/4/2018	1470				
6/5/2018					
6/6/2018					
6/7/2018		146			
6/8/2018					
6/11/2018					
6/28/2018			88	112	
8/6/2018					
8/7/2018			89	103	
9/19/2018	702				
9/24/2018			82	107	
9/25/2018					
9/26/2018					
10/1/2018		155			
10/2/2018					
2/25/2019					
3/26/2019				90	
3/27/2019	641		75		
3/28/2019					
3/29/2019		150			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		146			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	809		119	98	
3/17/2020	733				
3/18/2020					
3/19/2020		148			
3/24/2020				84	
3/25/2020			158		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2025 11:04 AM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	793				
8/27/2020					349
8/28/2020	838				
9/22/2020					296
9/23/2020	832	161			
9/24/2020			170	77	
9/25/2020					
10/7/2020	842				336
11/12/2020	760				317
3/1/2021					265
3/2/2021	782				
3/3/2021		138			
3/4/2021			168	57	
8/19/2021					
8/20/2021					289
8/26/2021			249		
8/27/2021	810	150			
9/1/2021					
9/3/2021				88	
2/8/2022			248	93	
2/9/2022	846	156			278
2/10/2022					
2/11/2022					
8/30/2022		153			
8/31/2022	948		242	92	266
2/7/2023		159	224		
2/8/2023				115	
2/9/2023					
2/10/2023	995				228
8/15/2023	945	157	225	83	267
8/16/2023					
2/20/2024		159	233	109	
2/21/2024	1100				274
2/23/2024					
8/20/2024		184			
8/21/2024	1060		235	94	
8/22/2024					232
2/25/2025		156	228	86	
2/26/2025	1030				205

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-18S (bg)	0.001383	106	105	Yes	24	29.17	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01699	128	87	Yes	21	4.762	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01069	-141	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-44	-0.0153	-101	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-46A	0.1004	140	111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5297	156	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07121	-145	-105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-0.954	-118	-111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.07137	183	111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1399	224	111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.05985	-185	-105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.02843	114	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.416	139	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.7627	-140	-87	Yes	21	4.762	n/a	0.01	NP
Calcium (mg/L)	YGWC-46A	4.863	172	111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2946	117	81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.03782	-151	-105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.02614	-128	-105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.08081	108	105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.5175	-230	-111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.8777	241	111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.08815	127	105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.07794	157	111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2046	94	87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.3114	-152	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8411	210	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.308	141	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2228	127	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6848	128	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.029	-218	-111	Yes	25	4	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.07442	179	111	Yes	25	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.08662	-107	-105	Yes	24	16.67	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1227	-171	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.0618	-109	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.355	-162	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-5.328	-161	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-9.679	-165	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-45	-3.755	-99	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	8.192	112	105	Yes	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	23.65	120	87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-9.065	-118	-87	Yes	21	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001316	85	105	No	24	45.83	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-8	-105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	14	105	No	24	83.33	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	40	105	No	24	66.67	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	6	105	No	24	87.5	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	31	105	No	24	75	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0006459	88	105	No	24	25	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	10	105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0001609	-34	-105	No	24	4.167	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0005253	92	105	No	24	16.67	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-2	-105	No	24	83.33	n/a	0.01	NP
Boron (mg/L)	**YGWA-18S (bg)**	**0.001383**	**106**	**105**	**Yes**	**24**	**29.17**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-20S (bg)	0	1	105	No	24	91.67	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-14	-105	No	24	54.17	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-4	-105	No	24	87.5	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01699**	**128**	**87**	**Yes**	**21**	**4.762**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01069**	**-141**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0001691	-18	-87	No	21	9.524	n/a	0.01	NP
Boron (mg/L)	**YGWC-44**	**-0.0153**	**-101**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-46A**	**0.1004**	**140**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**2.258**	**92**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.5297**	**156**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.07121**	**-145**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.2799	55	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.2329	70	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.4036	98	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.04754	29	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-0.954**	**-118**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.07137**	**183**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0.01105	65	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1399**	**224**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.06656	87	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.05985**	**-185**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.0347	98	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.3697	85	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-30I (bg)**	**0.02843**	**114**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-39 (bg)**	**2.416**	**139**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.1992	-62	-87	No	21	4.762	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-0.7627**	**-140**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWC-45	0.1354	12	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**YGWC-46A**	**4.863**	**172**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-1D (bg)	-0.01295	-75	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01972	-77	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.02326	-90	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.03782**	**-151**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.02614**	**-128**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-4I (bg)**	**0.08081**	**108**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5175**	**-230**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0.02095	38	111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.06174	56	105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.8777**	**241**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.08815**	**127**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.06848	73	105	No	24	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

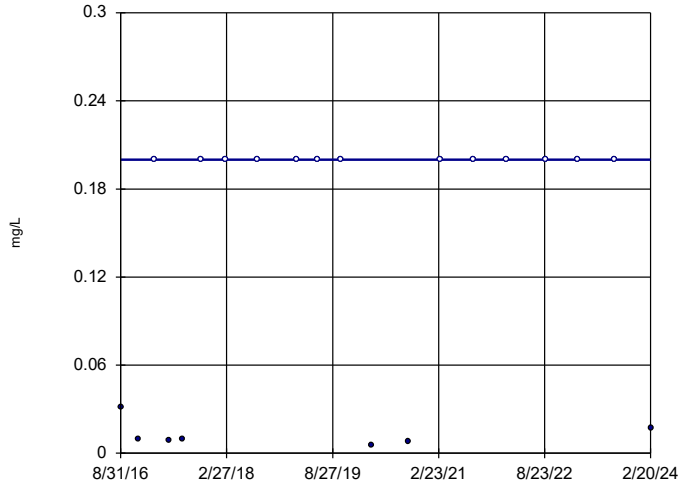
Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Chloride (mg/L)	**YGWA-20S (bg)**	**0.07794**	**157**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.06042	-73	-111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.03904	-105	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.4364	84	87	No	21	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2046**	**94**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3114**	**-152**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-46A	0.5999	47	111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**9.755**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.8411**	**210**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.09313	-44	-105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-2I (bg)**	**1.308**	**141**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.2228**	**127**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.6848**	**128**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0	9	111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.029**	**-218**	**-111**	**Yes**	**25**	**4**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.07442**	**179**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	0	4	105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	-0.05102	-55	-111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.08662**	**-107**	**-105**	**Yes**	**24**	**16.67**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-18S (bg)**	**-0.1227**	**-171**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-20S (bg)	0.003345	107	111	No	25	60	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1796	-102	-111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-30I (bg)**	**-0.0618**	**-109**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.355**	**-162**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-5.328**	**-161**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-9.679**	**-165**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-45**	**-3.755**	**-99**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-46A	-15.37	-65	-111	No	25	4	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	12.15	73	81	No	20	0	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	2.993	99	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	0	2	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	0.4129	20	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	2.591	59	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	2.067	45	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-4I (bg)	2.052	50	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-5.897	-61	-98	No	23	0	n/a	0.01	NP
TDS (mg/L)	YGWA-5I (bg)	0.3624	18	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	1.401	67	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	2.373	77	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	0.2504	7	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	1.39	46	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	2.836	81	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	**YGWA-21I (bg)**	**8.192**	**112**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-30I (bg)	1.9	69	105	No	24	8.333	n/a	0.01	NP
TDS (mg/L)	**YGWA-39 (bg)**	**23.65**	**120**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-40 (bg)	-3.94	-62	-87	No	21	0	n/a	0.01	NP
TDS (mg/L)	**YGWA-47 (bg)**	**-9.065**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWC-45	2.772	42	87	No	21	0	n/a	0.01	NP
TDS (mg/L)	YGWC-46A	0.7857	3	111	No	25	0	n/a	0.01	NP

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 26
critical = 81

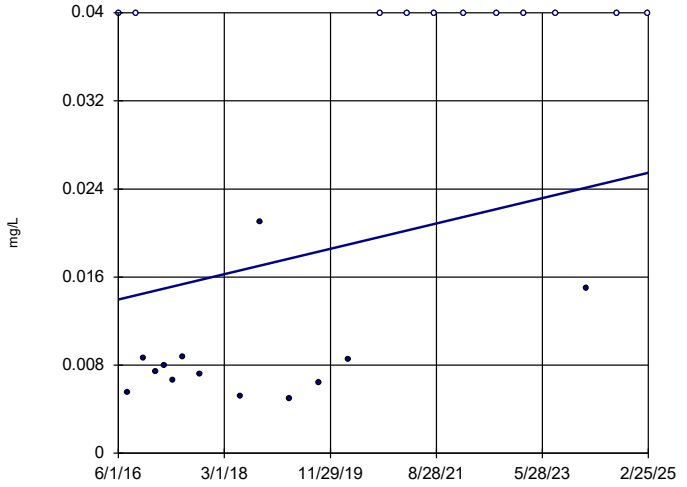
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = 0.001316 units per year.

Mann-Kendall statistic = 85
critical = 105

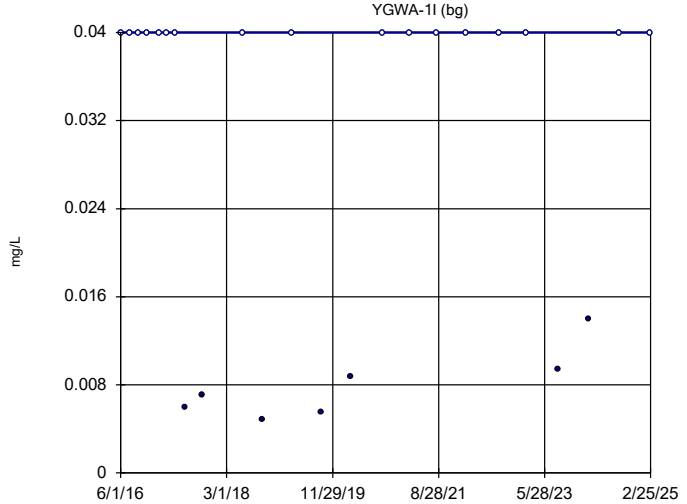
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -105

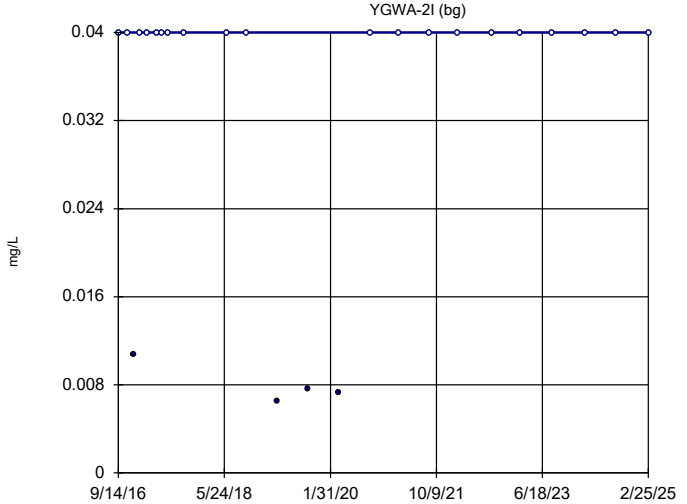
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 14
critical = 105

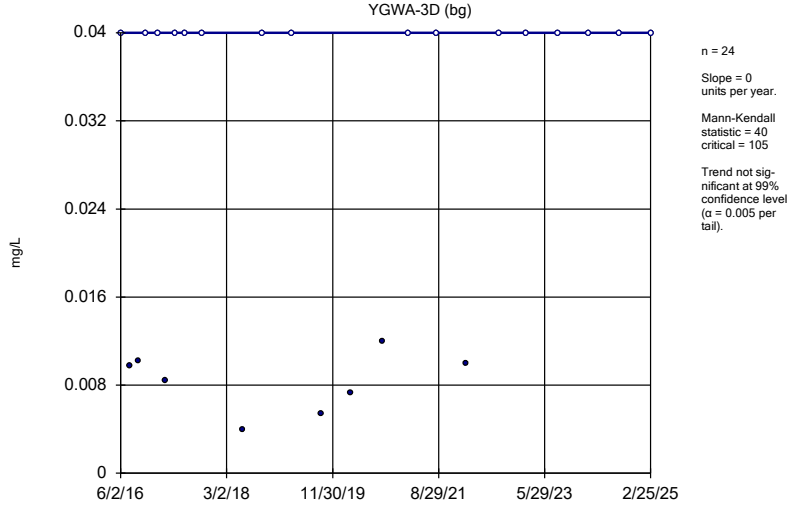
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 40
critical = 105

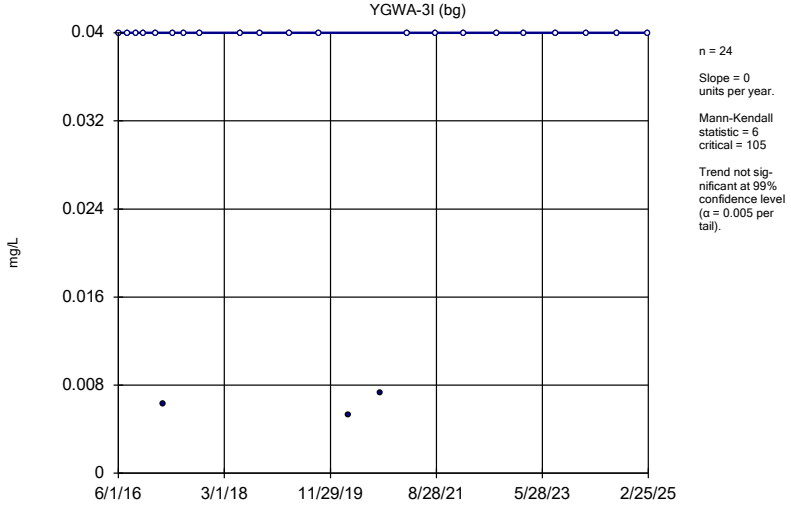
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 105

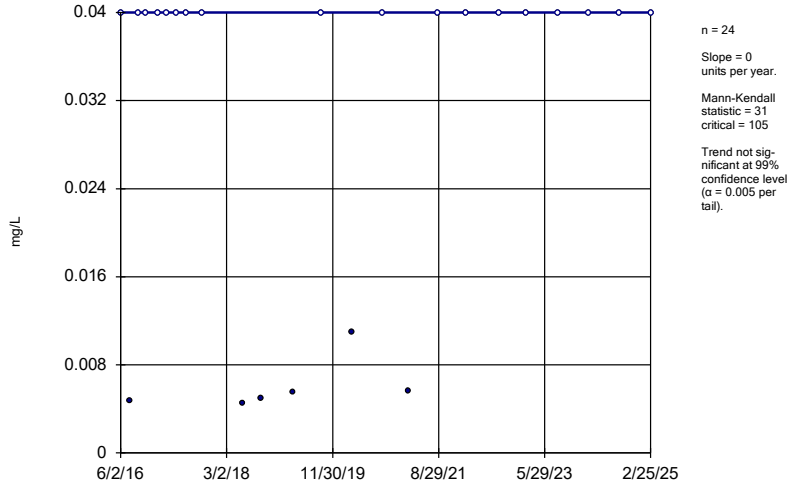
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 31
critical = 105

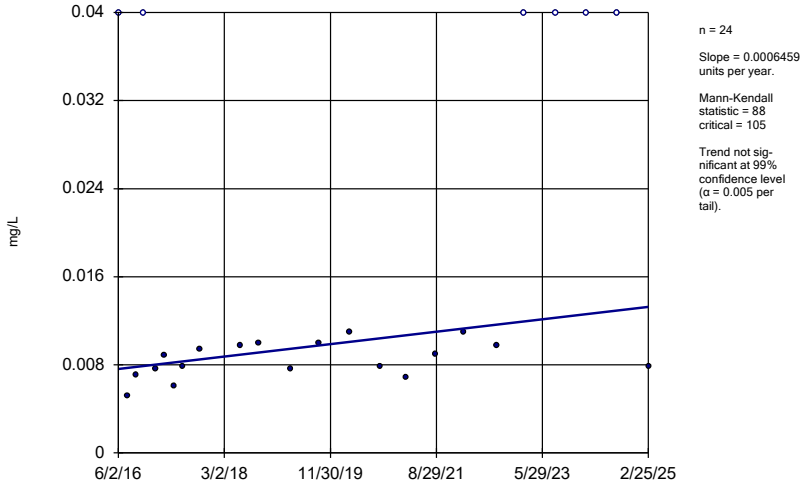
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 24

Slope = 0.0006459 units per year.

Mann-Kendall statistic = 88
critical = 105

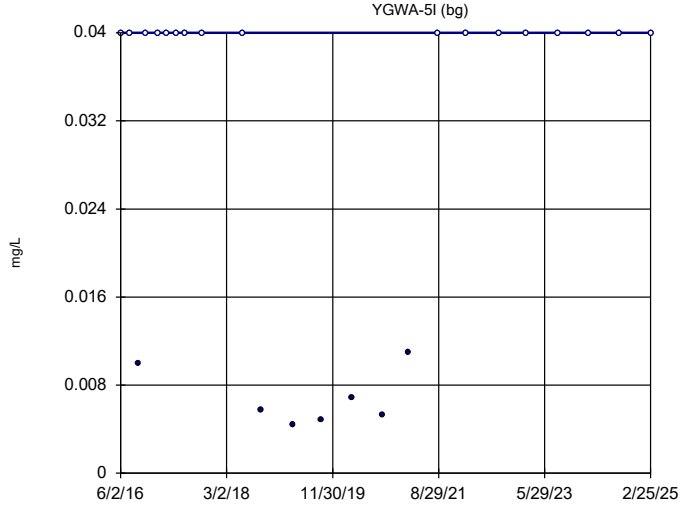
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = 10
critical = 105

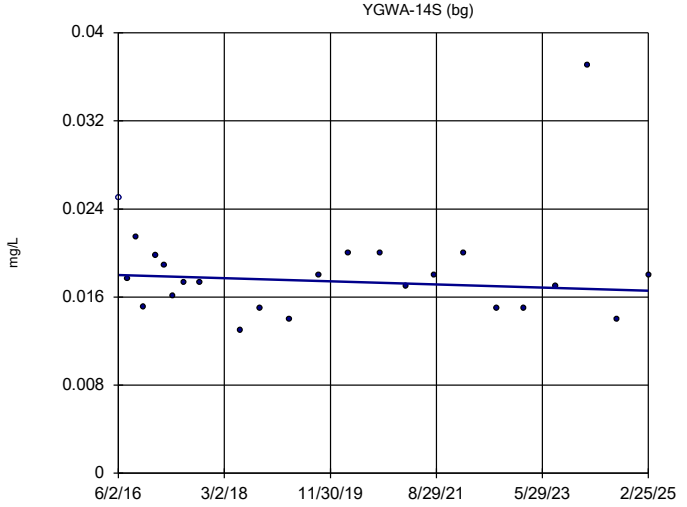
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = -0.0001609
units per year.

Mann-Kendall
statistic = -34
critical = -105

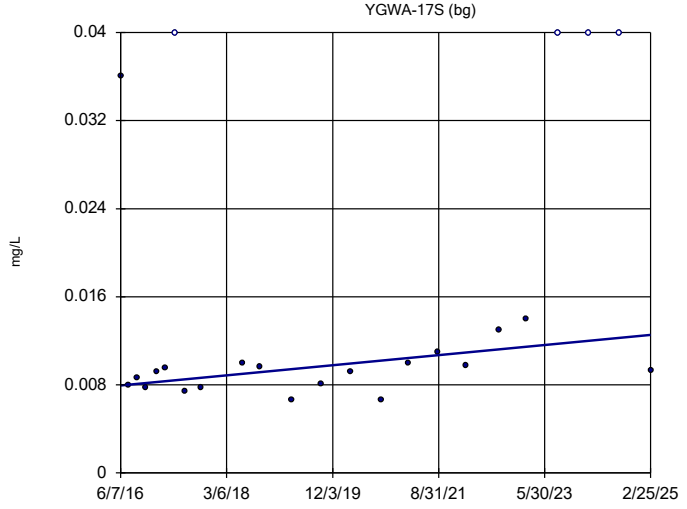
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 24

Slope = 0.0005253
units per year.

Mann-Kendall
statistic = 92
critical = 105

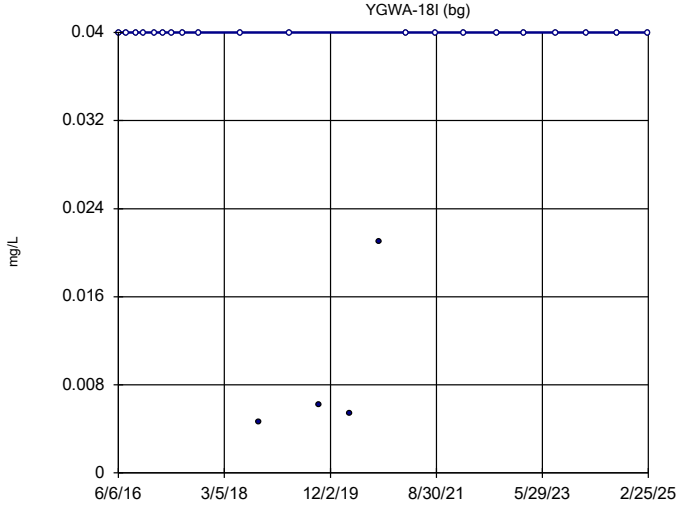
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = -2
critical = -105

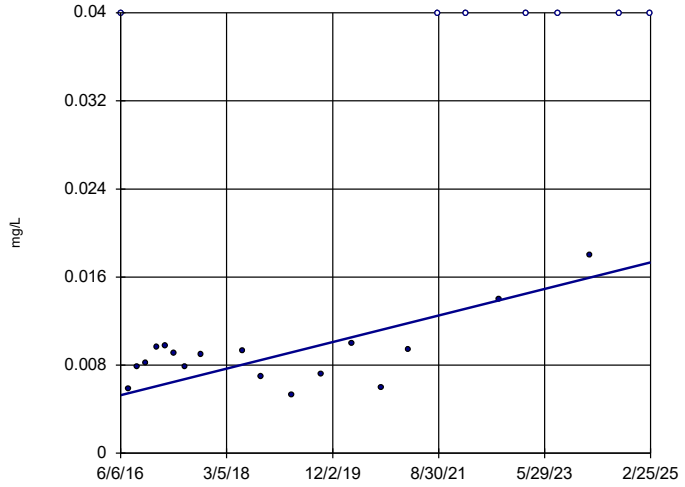
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = 0.001383 units per year.

Mann-Kendall statistic = 106
critical = 105

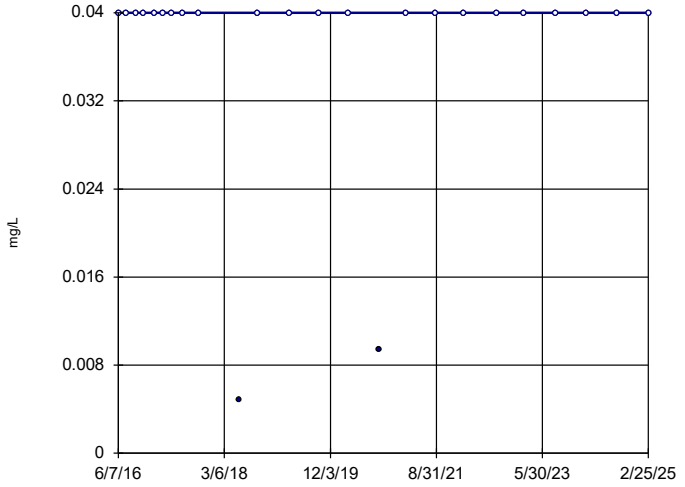
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 105

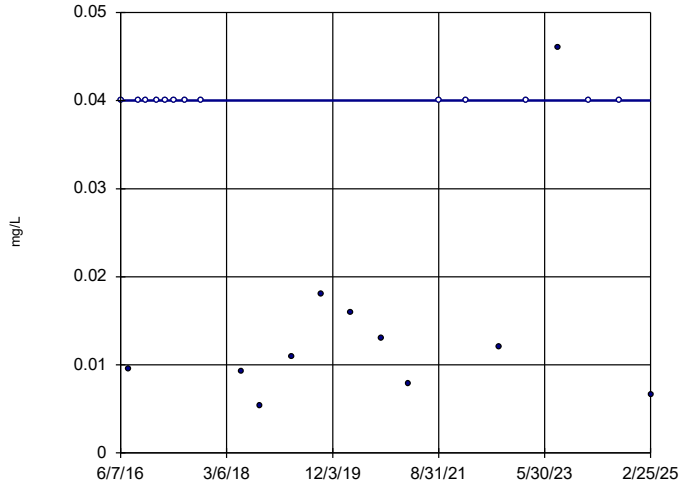
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -105

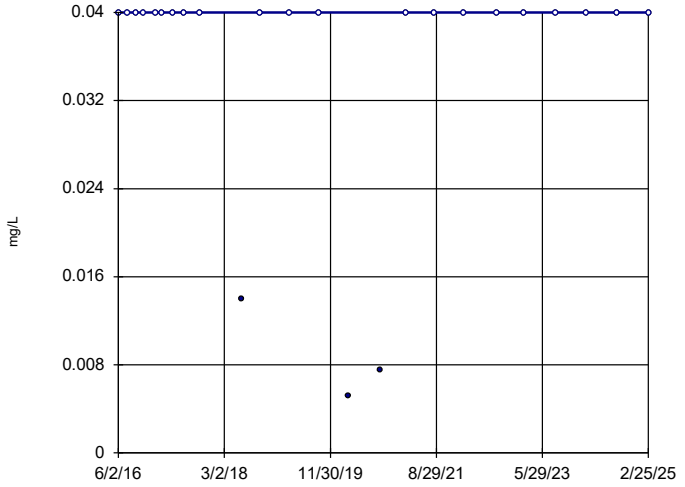
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -105

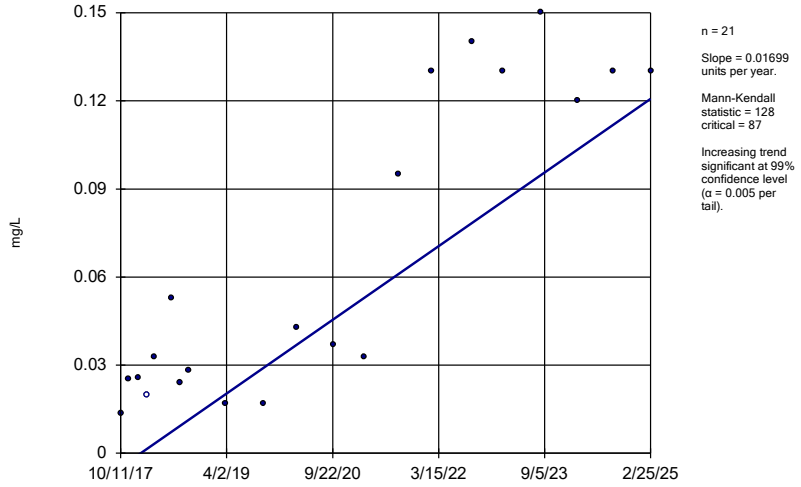
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = 0.01699 units per year.

Mann-Kendall statistic = 128 critical = 87

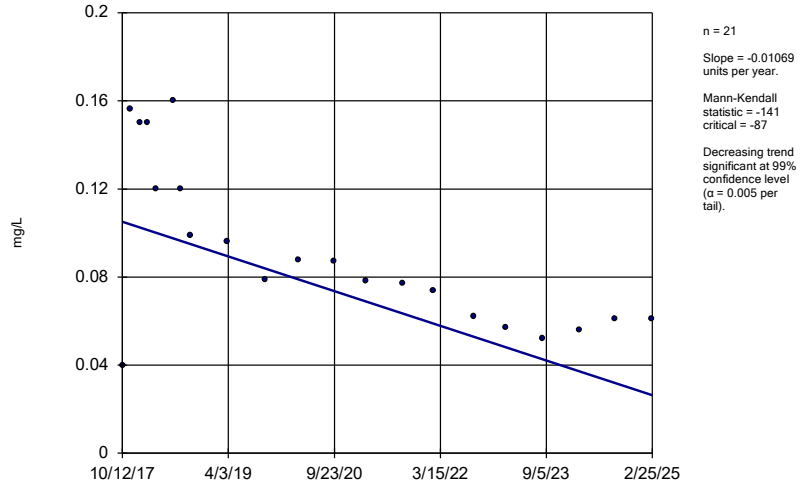
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = -0.01069 units per year.

Mann-Kendall statistic = -141 critical = -87

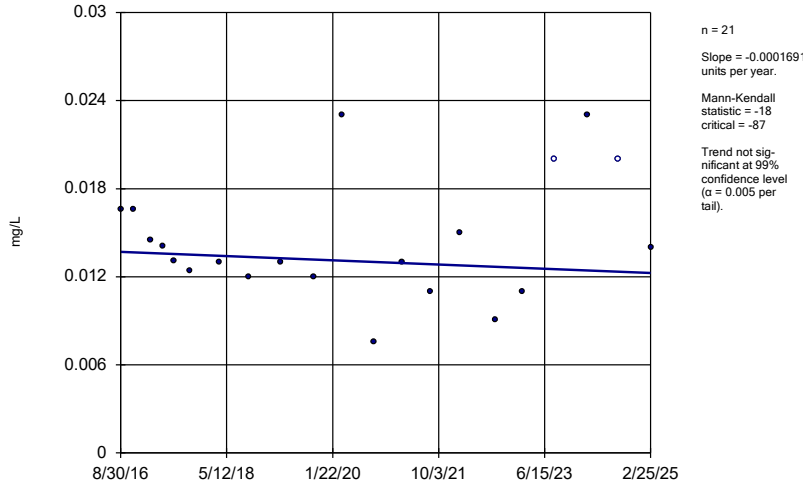
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.0001691 units per year.

Mann-Kendall statistic = -18 critical = -87

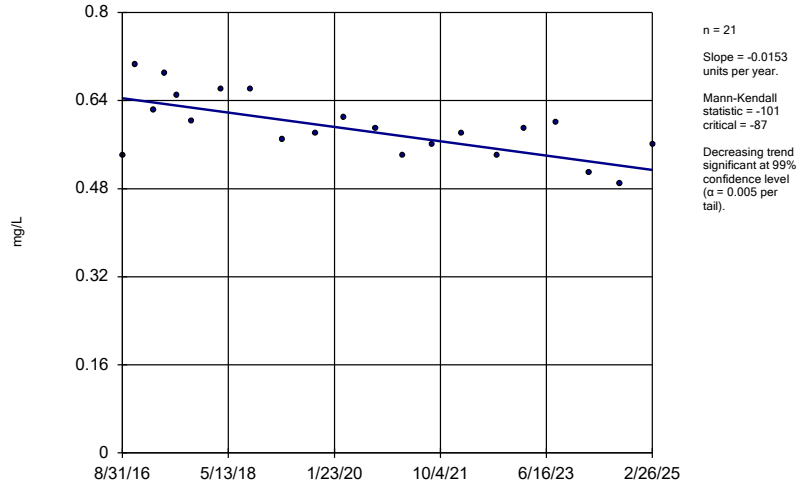
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-44



n = 21

Slope = -0.0153 units per year.

Mann-Kendall statistic = -101 critical = -87

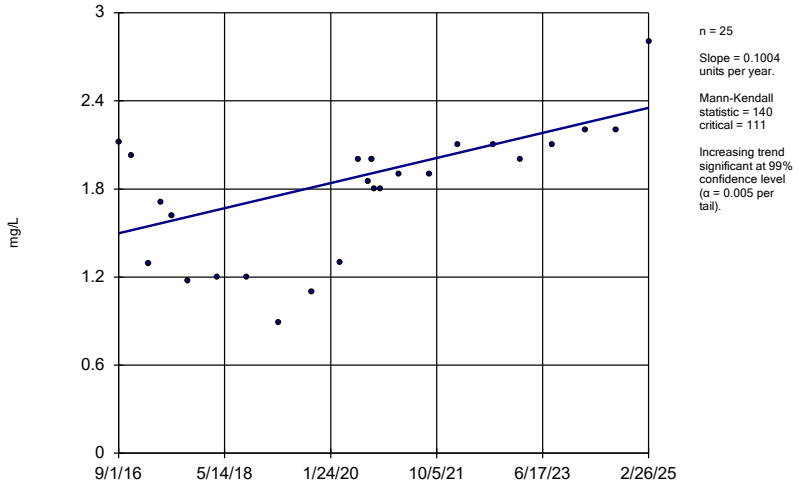
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-46A



n = 25

Slope = 0.1004 units per year.

Mann-Kendall statistic = 140 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

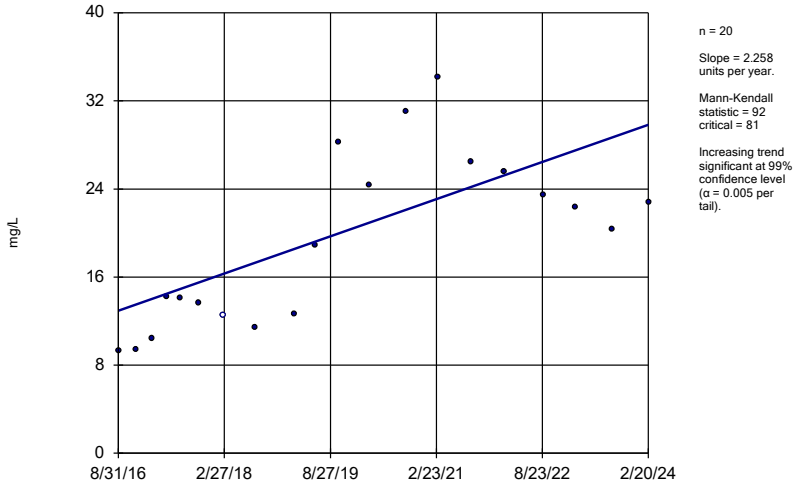
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 2.258 units per year.

Mann-Kendall statistic = 92 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

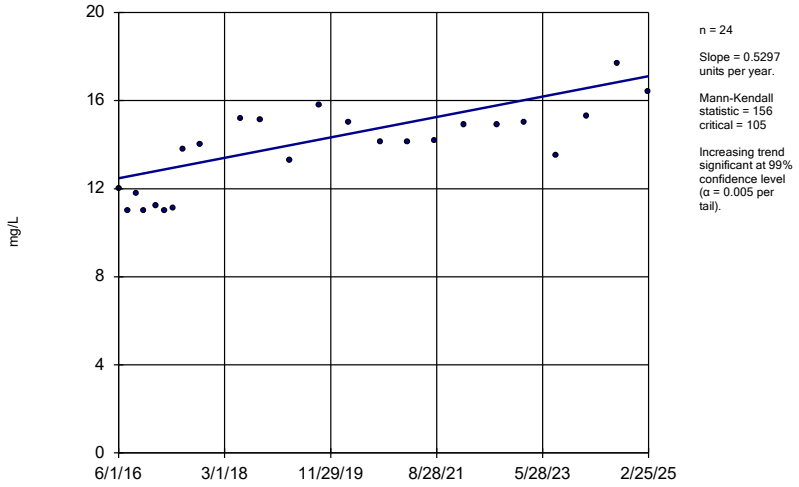
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = 0.5297 units per year.

Mann-Kendall statistic = 156 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

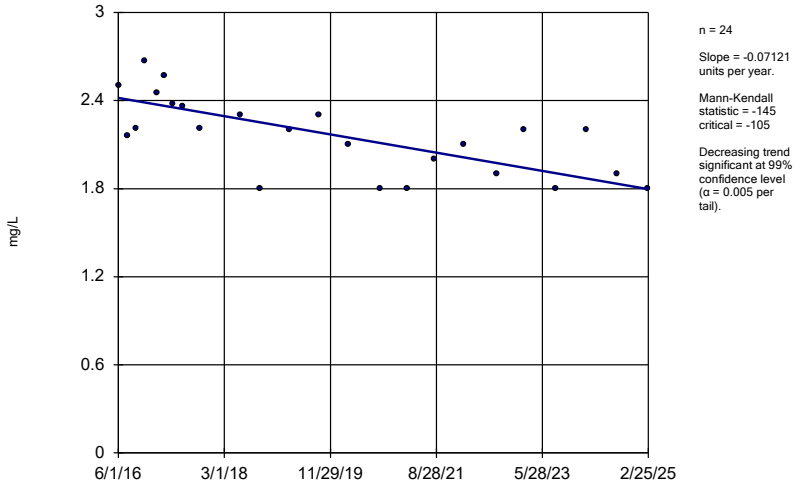
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = -0.07121 units per year.

Mann-Kendall statistic = -145 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

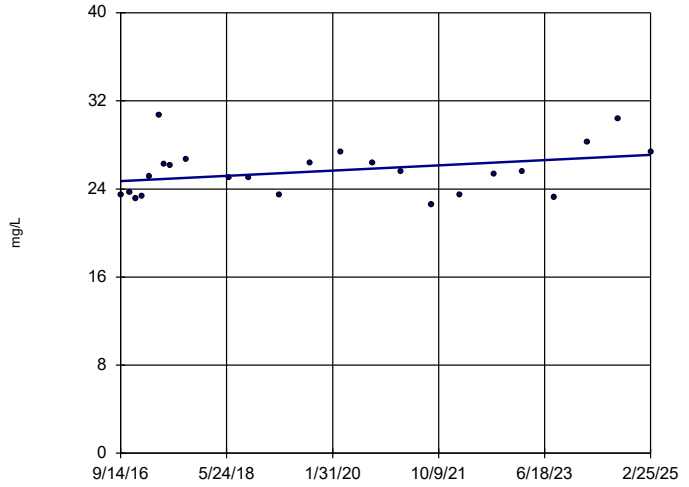
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = 0.2799 units per year.

Mann-Kendall statistic = 55 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

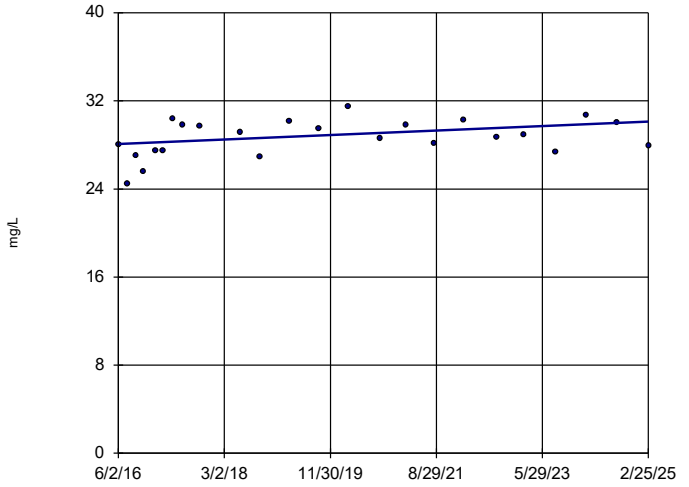
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = 0.2329 units per year.

Mann-Kendall statistic = 70 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

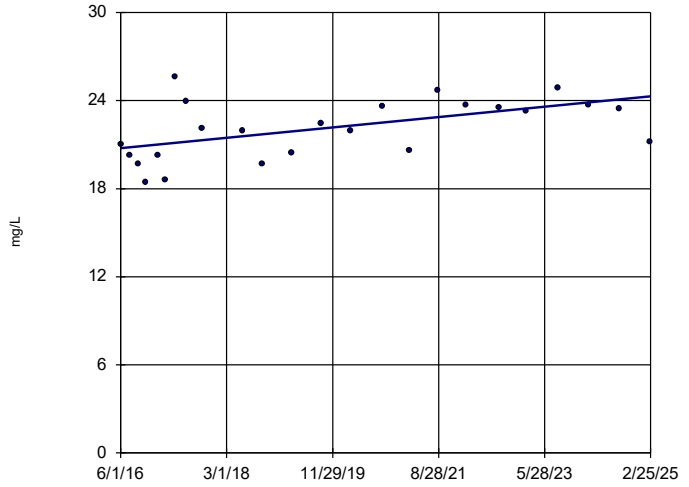
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = 0.4036 units per year.

Mann-Kendall statistic = 98 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

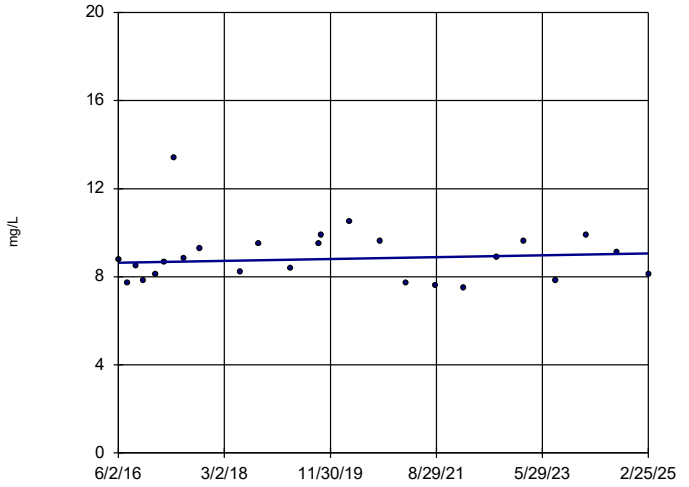
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 25

Slope = 0.04754 units per year.

Mann-Kendall statistic = 29 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

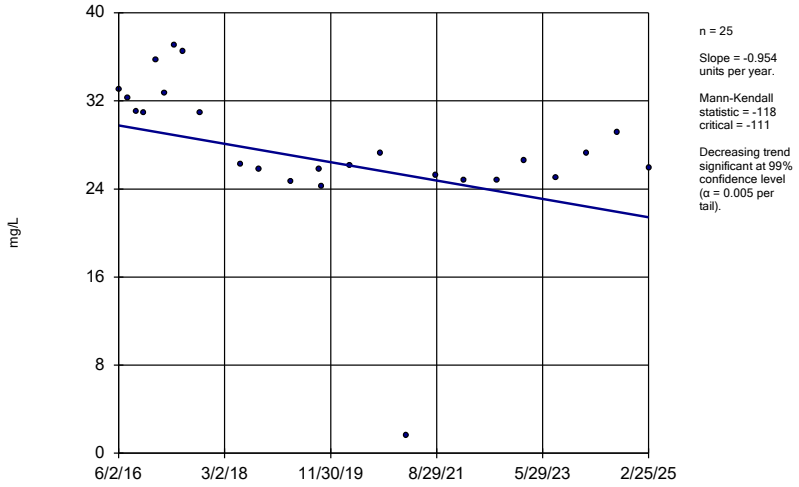
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 25

Slope = -0.954 units per year.

Mann-Kendall statistic = -118 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

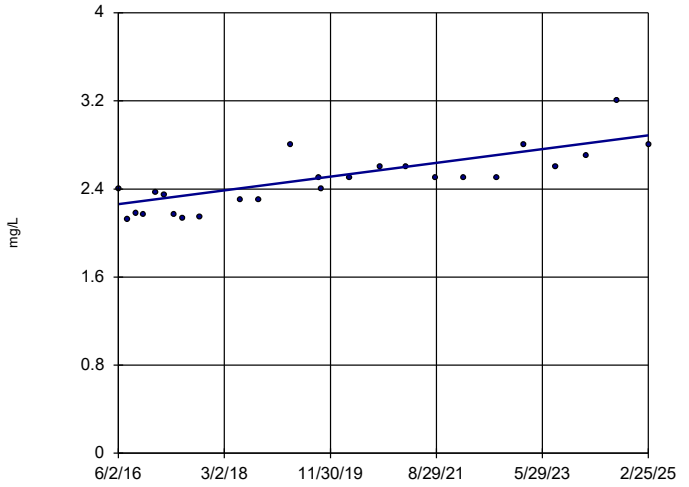
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 25

Slope = 0.07137 units per year.

Mann-Kendall statistic = 183 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

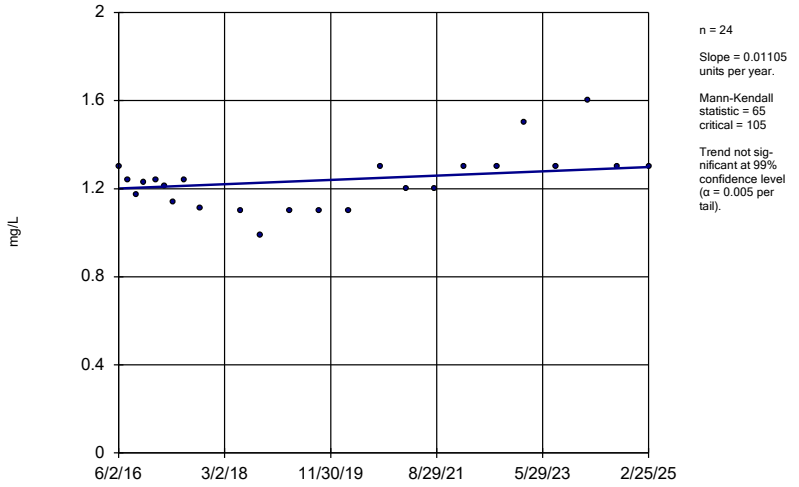
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = 0.01105 units per year.

Mann-Kendall statistic = 65 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

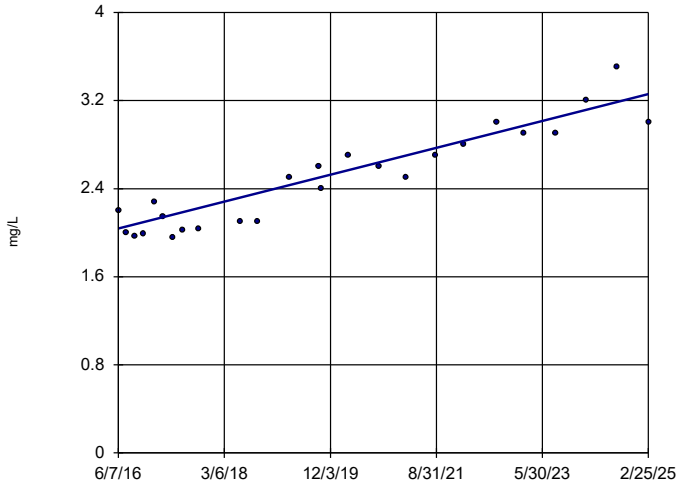
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0.1399 units per year.

Mann-Kendall statistic = 224 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

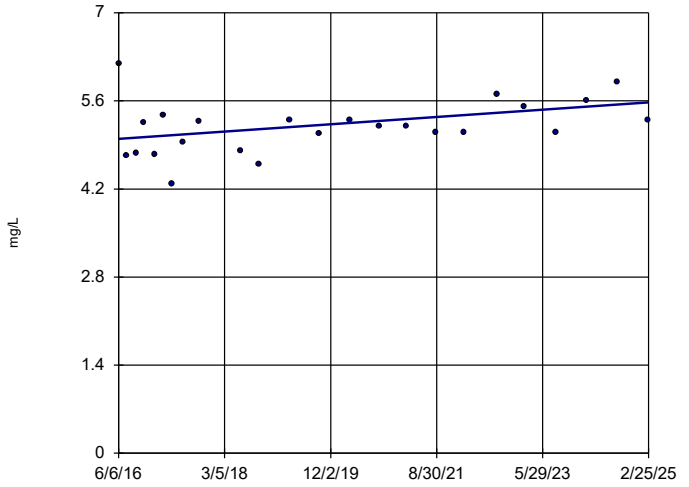
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = 0.06656 units per year.

Mann-Kendall statistic = 87 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

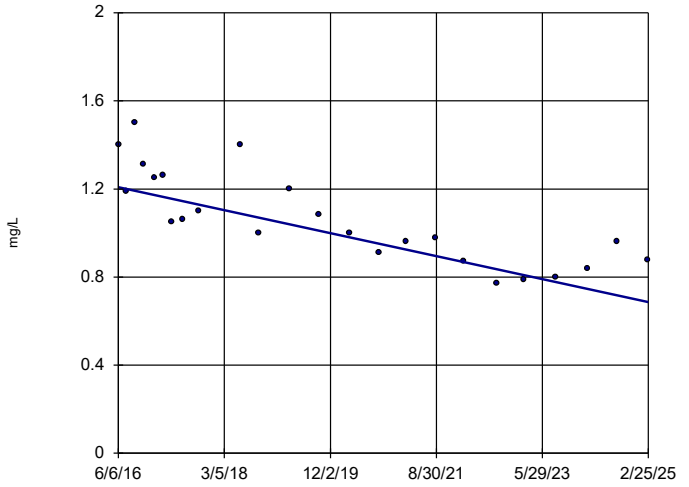
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = -0.05985 units per year.

Mann-Kendall statistic = -185 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

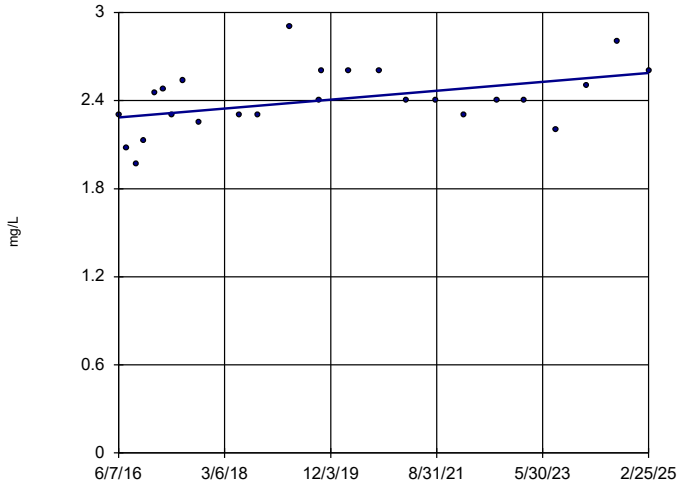
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 25

Slope = 0.0347 units per year.

Mann-Kendall statistic = 98 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

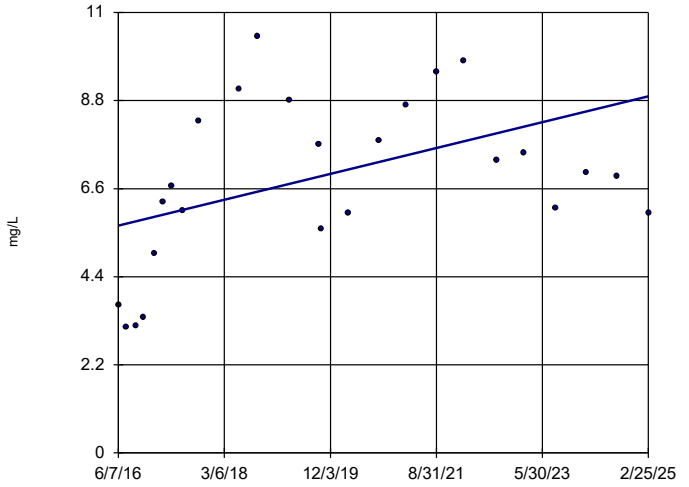
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 25

Slope = 0.3697 units per year.

Mann-Kendall statistic = 85 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

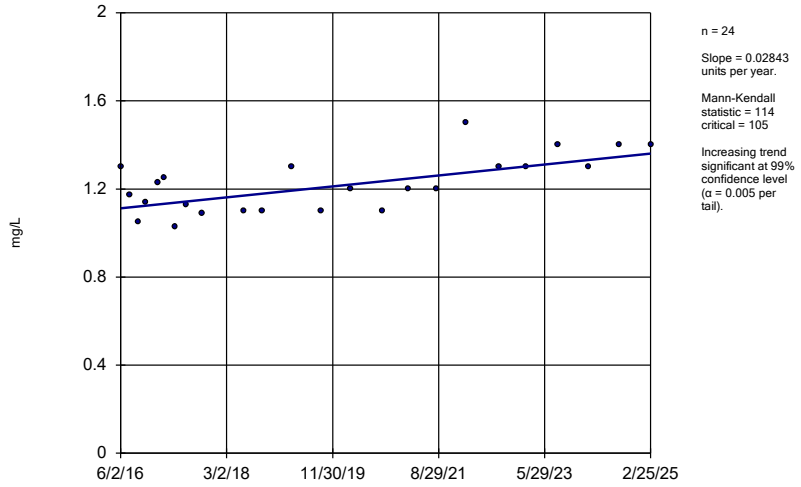
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = 0.02843 units per year.

Mann-Kendall statistic = 114 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

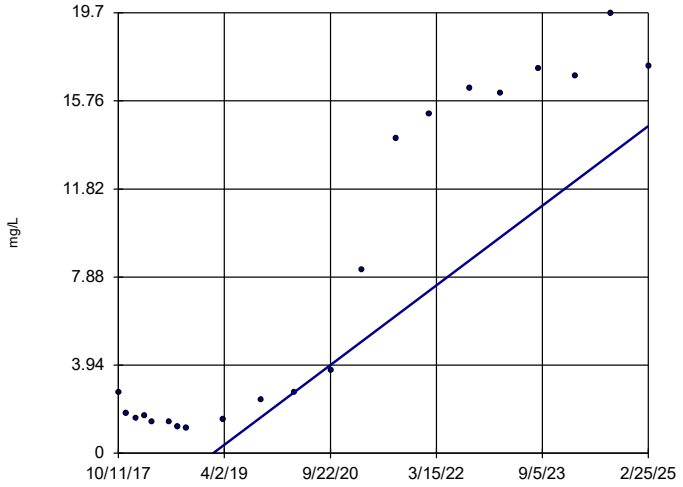
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = 2.416 units per year.

Mann-Kendall statistic = 139 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

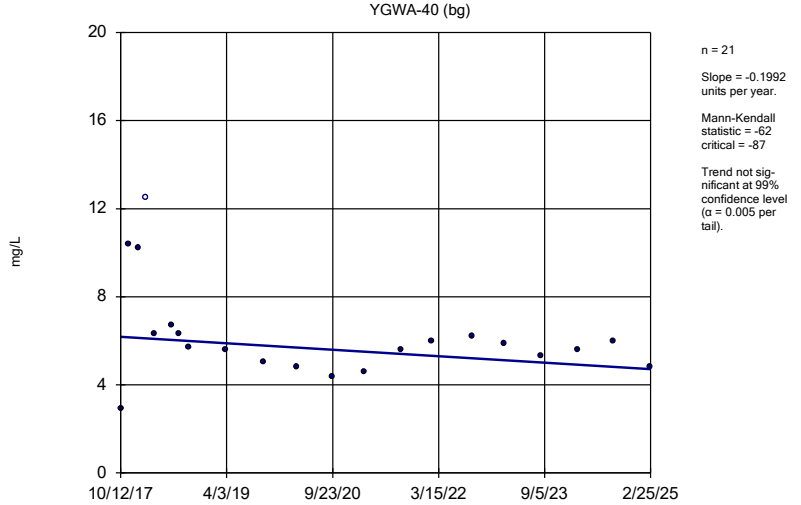
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = -0.1992 units per year.

Mann-Kendall statistic = -62 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

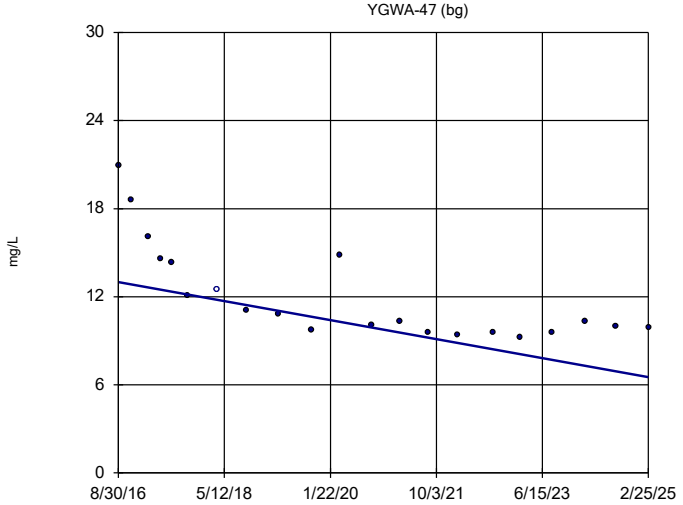
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.7627 units per year.

Mann-Kendall statistic = -140 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

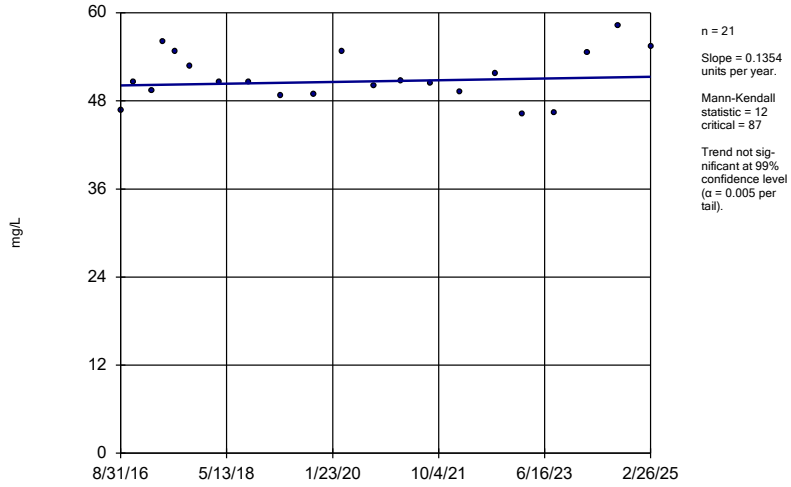
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-45



n = 21

Slope = 0.1354 units per year.

Mann-Kendall statistic = 12 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

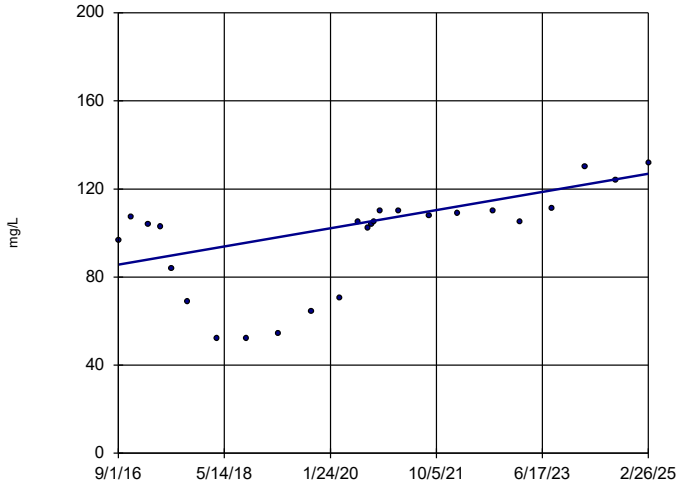
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-46A



n = 25

Slope = 4.863 units per year.

Mann-Kendall statistic = 172 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

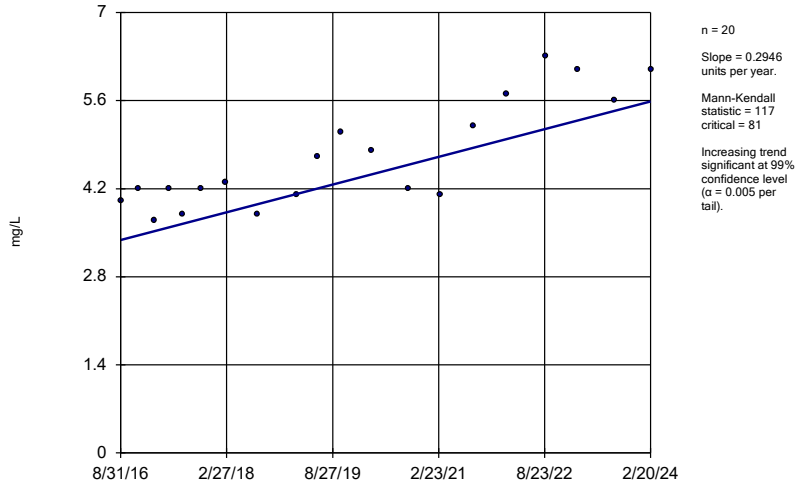
Constituent: Calcium Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0.2946 units per year.

Mann-Kendall statistic = 117 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

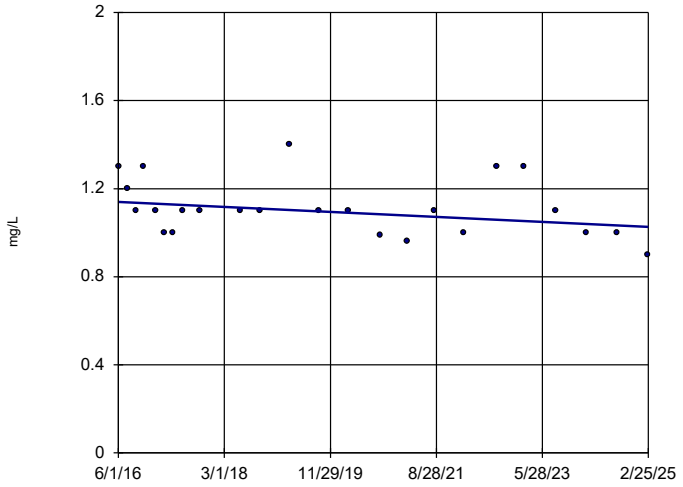
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = -0.01295 units per year.

Mann-Kendall statistic = -75 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

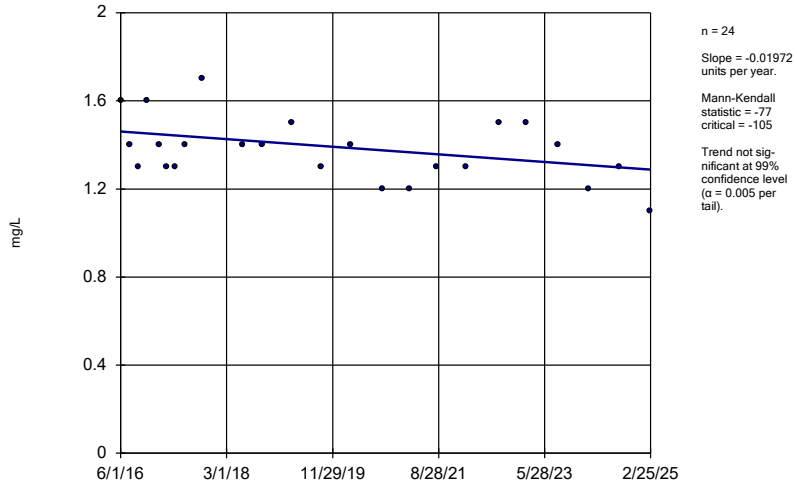
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = -0.01972 units per year.

Mann-Kendall statistic = -77 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

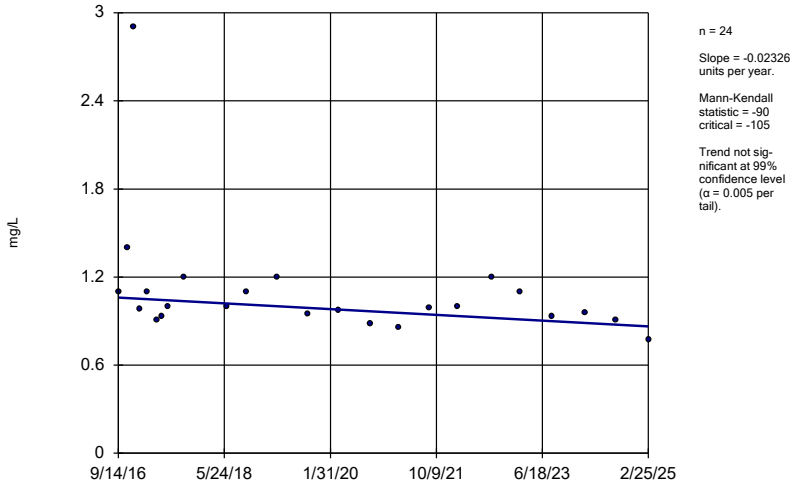
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = -0.02326 units per year.

Mann-Kendall statistic = -90 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

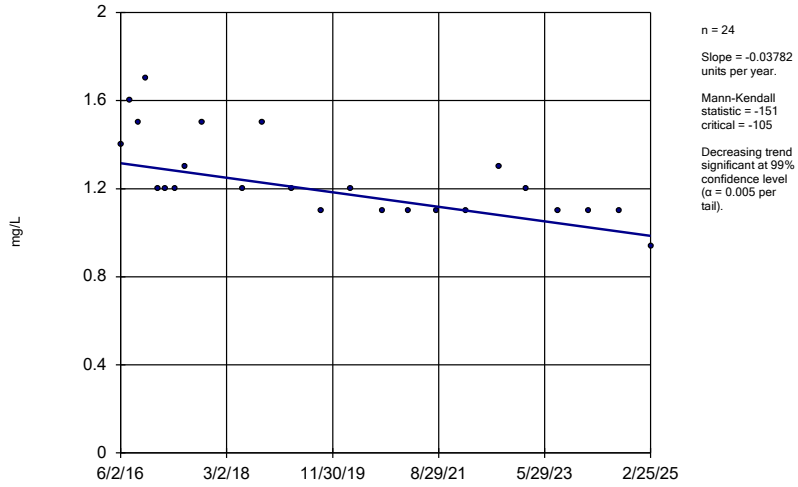
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = -0.03782 units per year.

Mann-Kendall statistic = -151 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

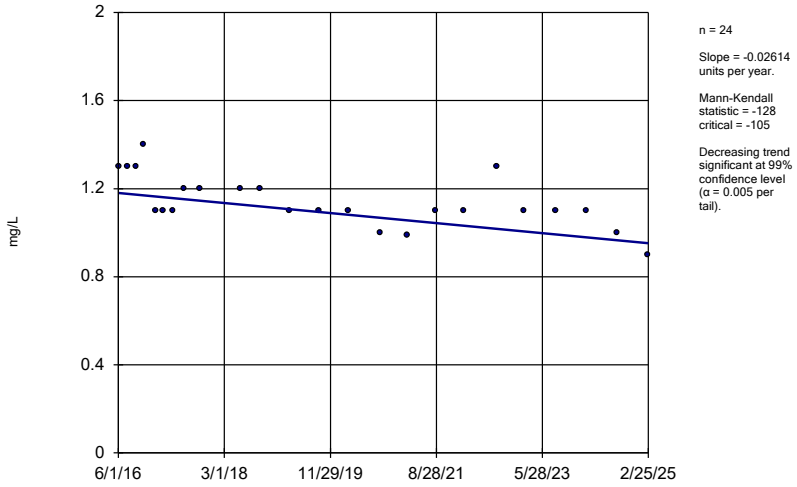
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = -0.02614 units per year.

Mann-Kendall statistic = -128 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

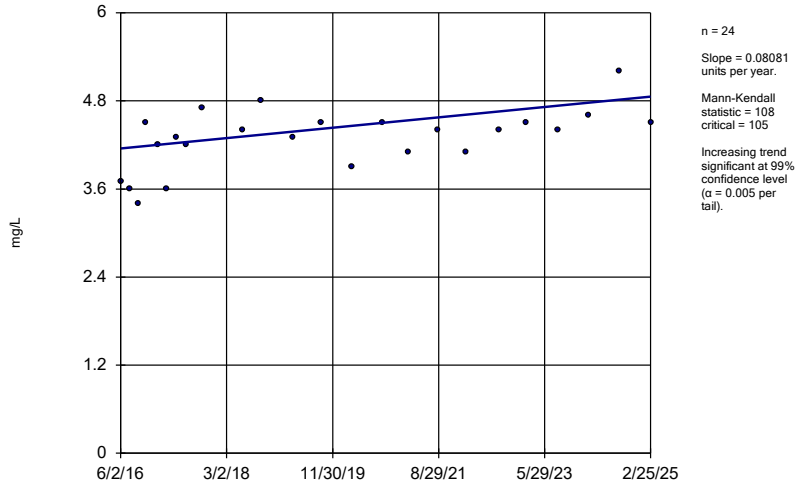
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 24

Slope = 0.08081 units per year.

Mann-Kendall statistic = 108 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

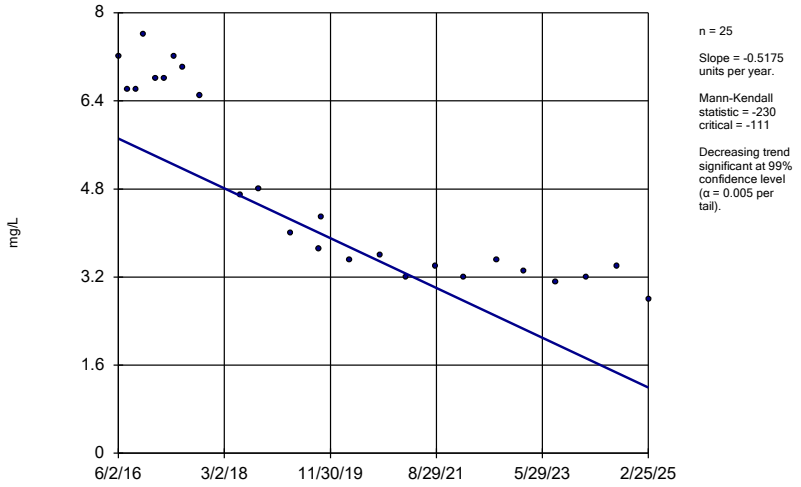
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 25

Slope = -0.5175 units per year.

Mann-Kendall statistic = -230 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

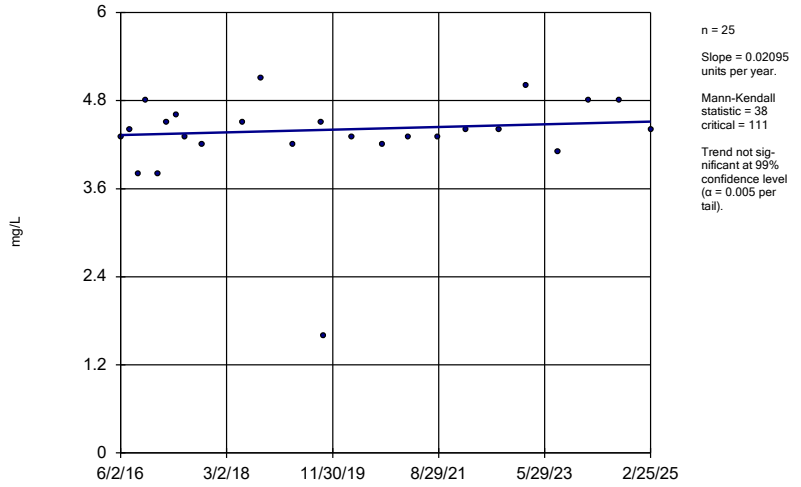
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 25

Slope = 0.02095 units per year.

Mann-Kendall statistic = 38 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

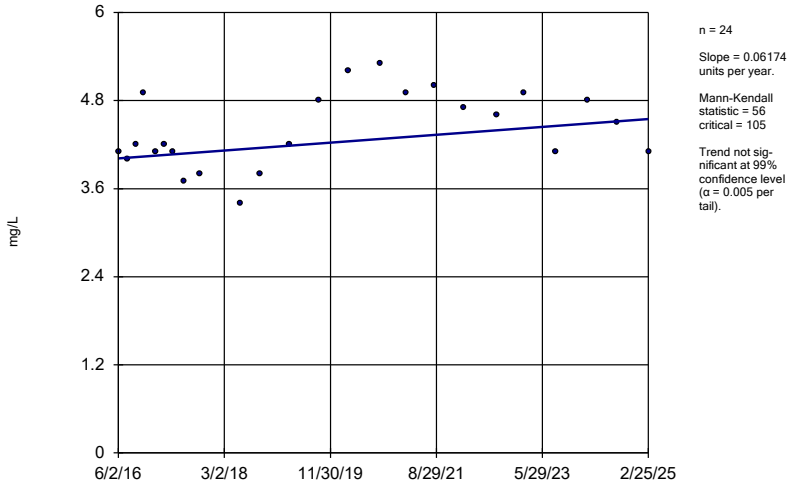
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = 0.06174 units per year.

Mann-Kendall statistic = 56 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

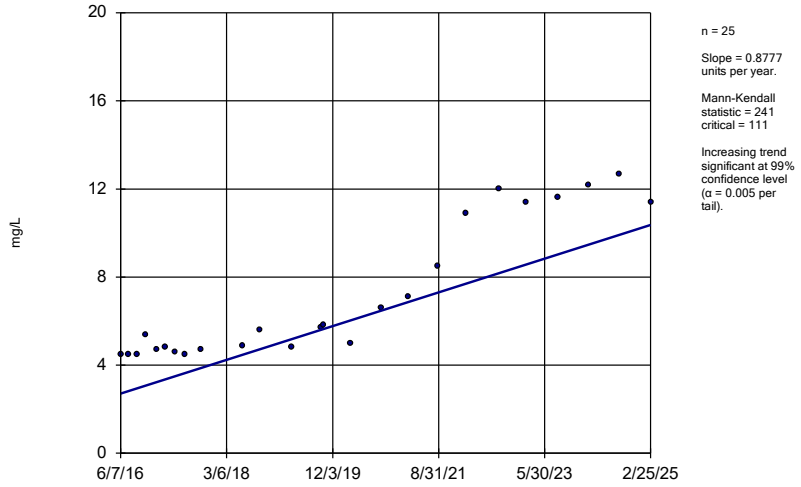
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0.8777 units per year.

Mann-Kendall statistic = 241 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

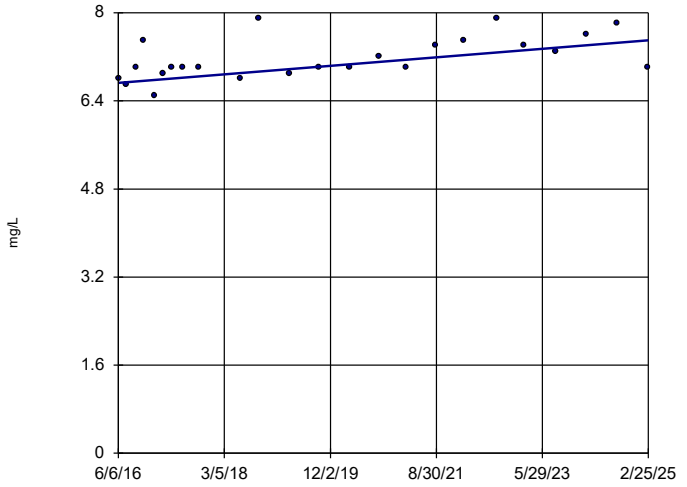
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = 0.08815 units per year.

Mann-Kendall statistic = 127 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

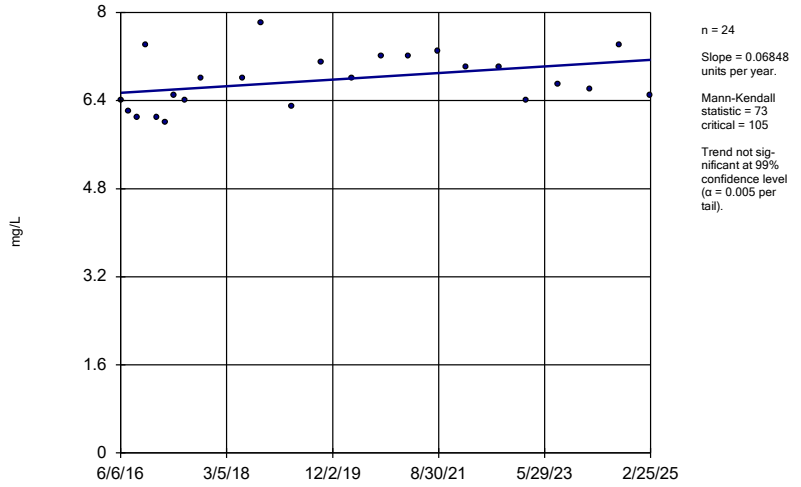
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = 0.06848 units per year.

Mann-Kendall statistic = 73 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

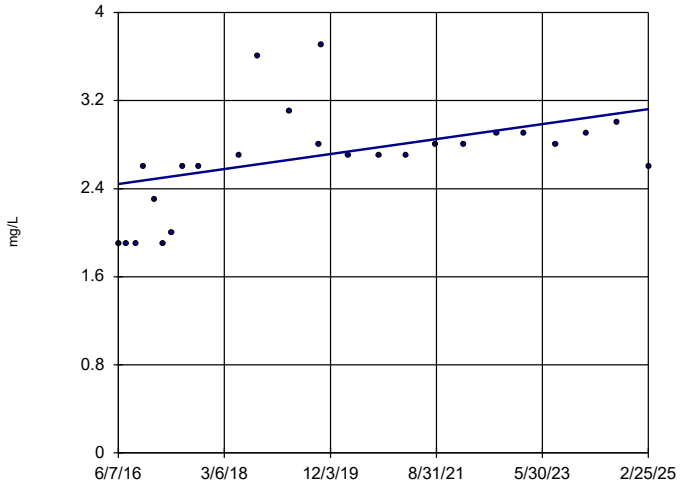
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 25

Slope = 0.07794 units per year.

Mann-Kendall statistic = 157 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

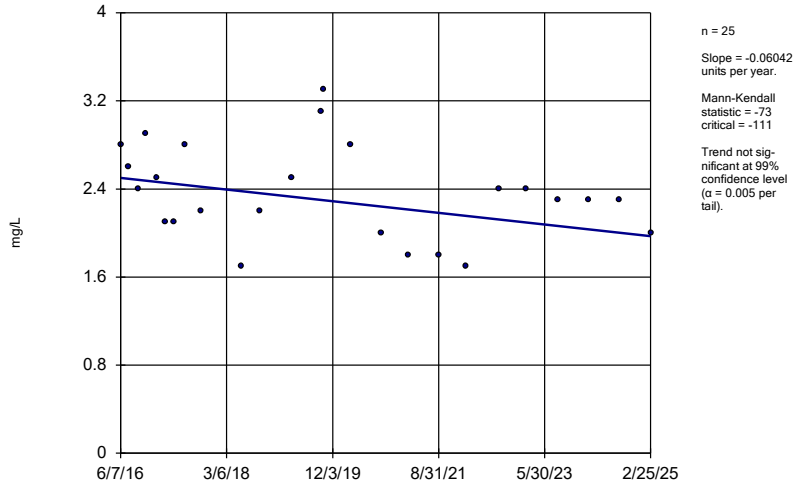
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 25

Slope = -0.06042 units per year.

Mann-Kendall statistic = -73 critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

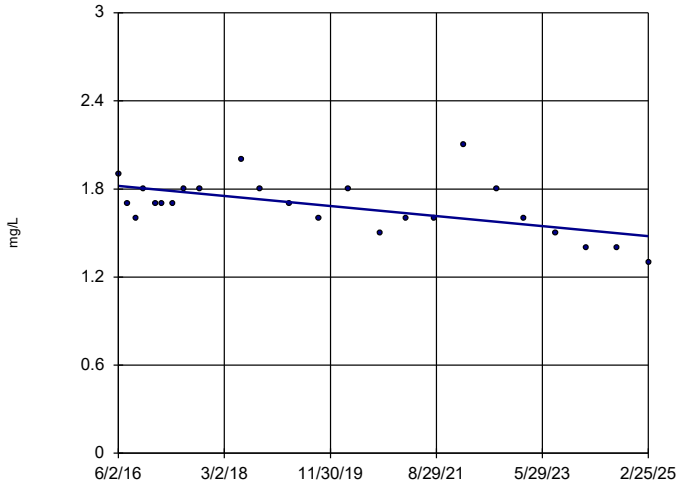
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = -0.03904 units per year.

Mann-Kendall statistic = -105 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

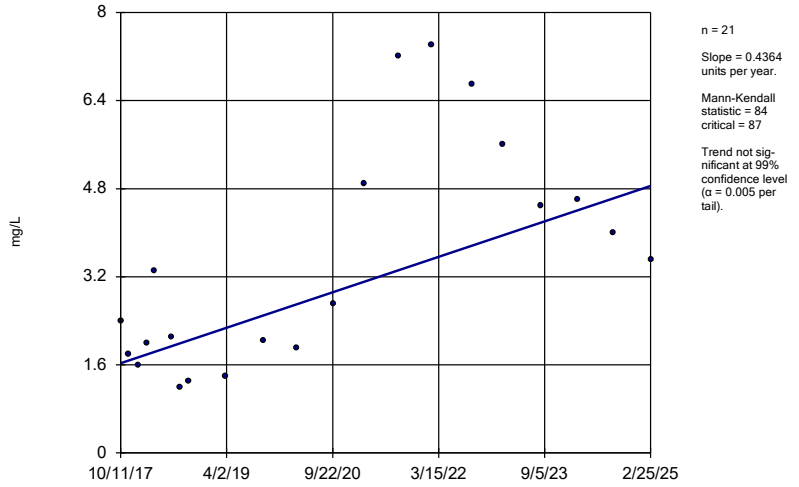
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = 0.4364 units per year.

Mann-Kendall statistic = 84 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

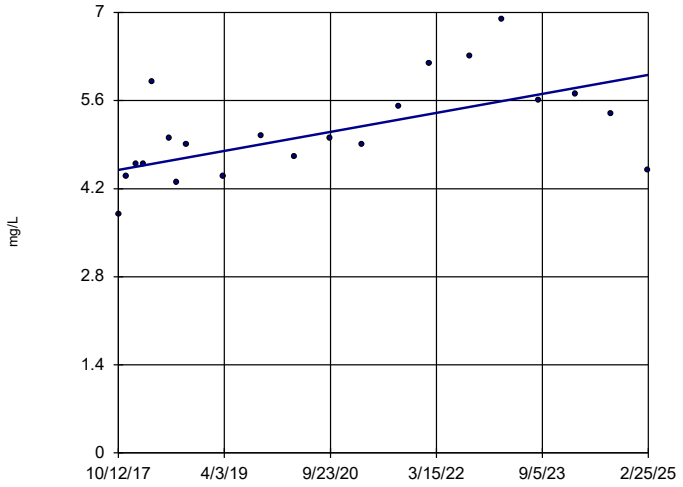
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = 0.2046 units per year.

Mann-Kendall statistic = 94 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

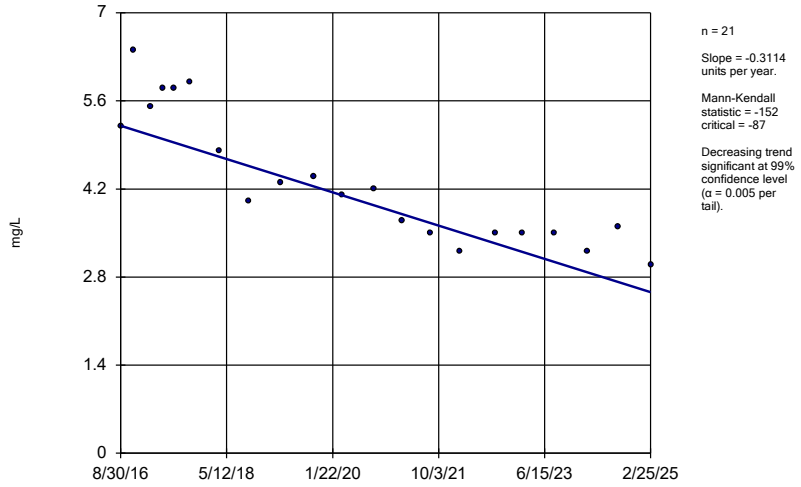
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.3114 units per year.

Mann-Kendall statistic = -152 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

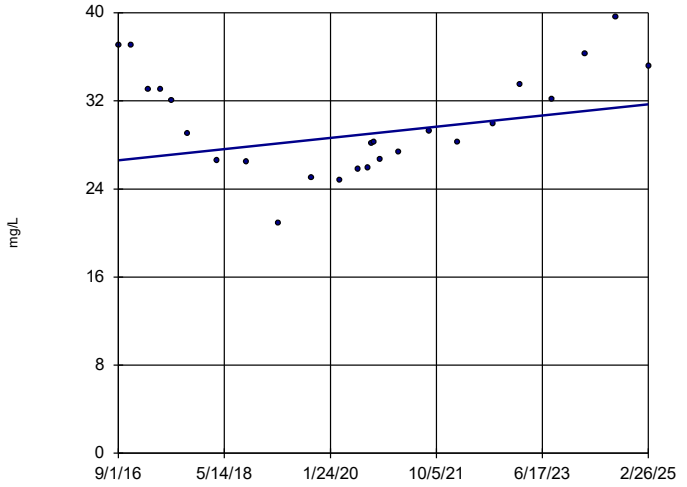
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-46A



n = 25

Slope = 0.5999 units per year.

Mann-Kendall statistic = 47 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

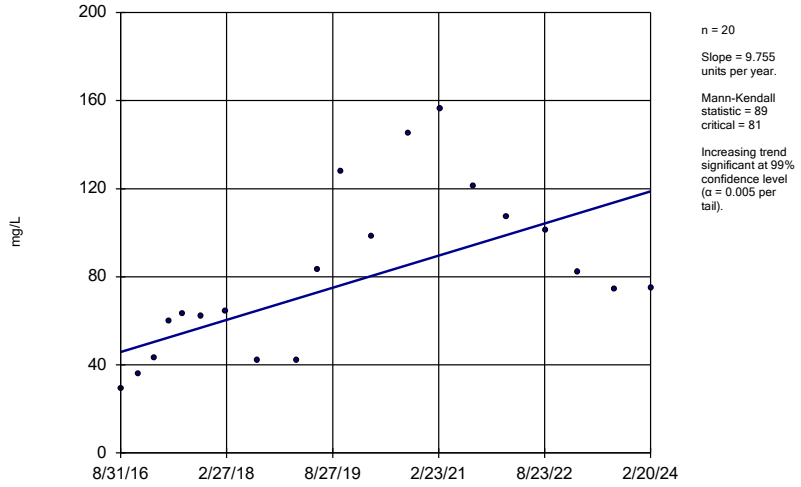
Constituent: Chloride Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 9.755 units per year.

Mann-Kendall statistic = 89 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

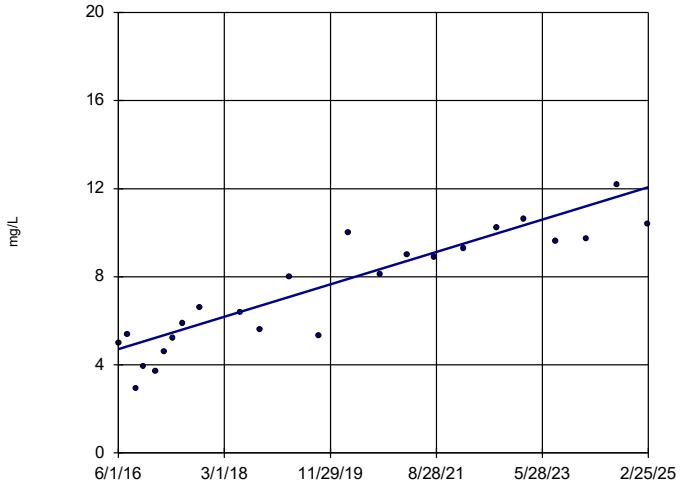
Constituent: Sulfate Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = 0.8411 units per year.

Mann-Kendall statistic = 210 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

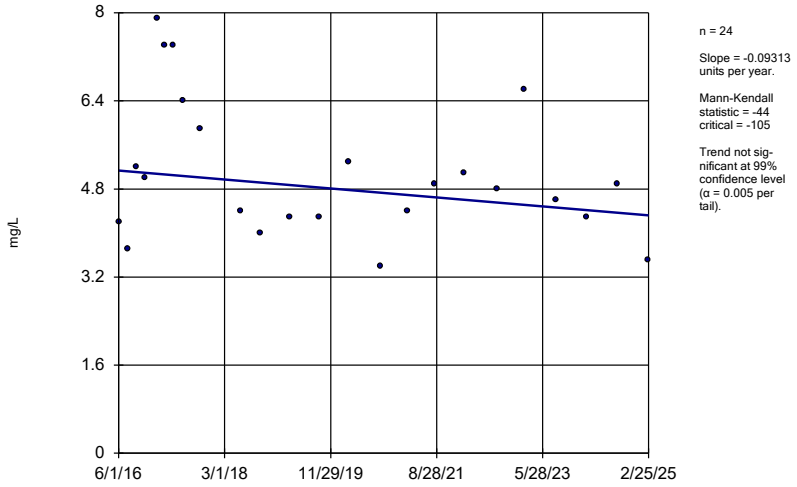
Constituent: Sulfate Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = -0.09313 units per year.

Mann-Kendall statistic = -44
critical = -105

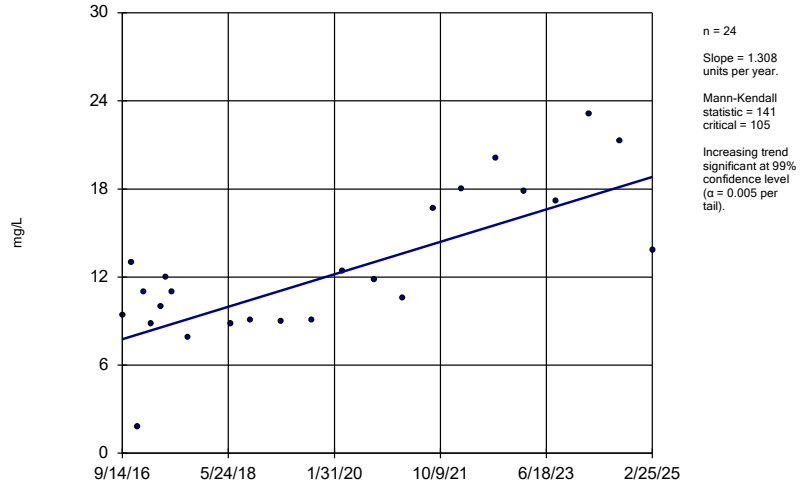
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = 1.308 units per year.

Mann-Kendall statistic = 141
critical = 105

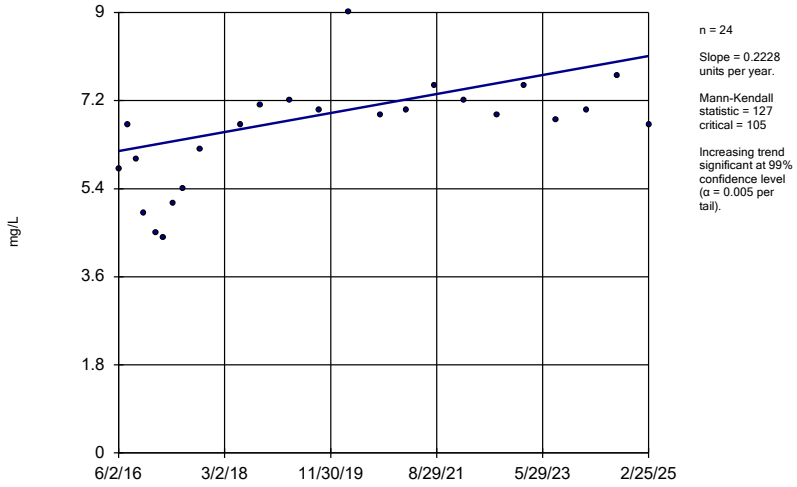
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 11:06 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = 0.2228 units per year.

Mann-Kendall statistic = 127
critical = 105

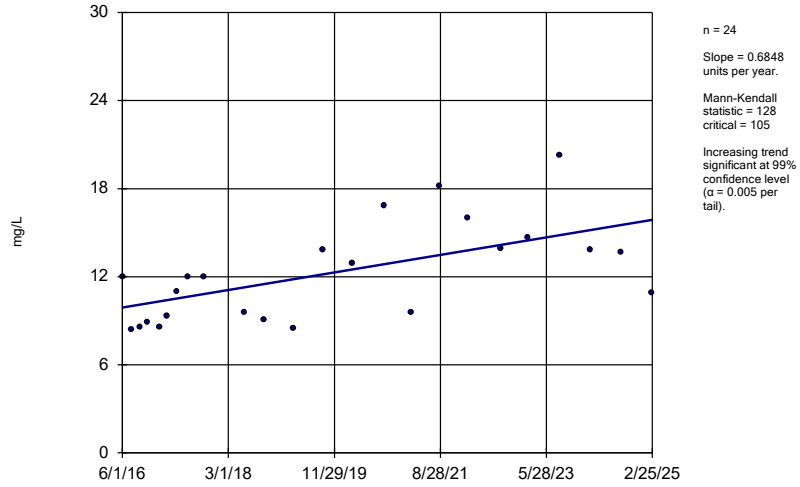
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = 0.6848 units per year.

Mann-Kendall statistic = 128
critical = 105

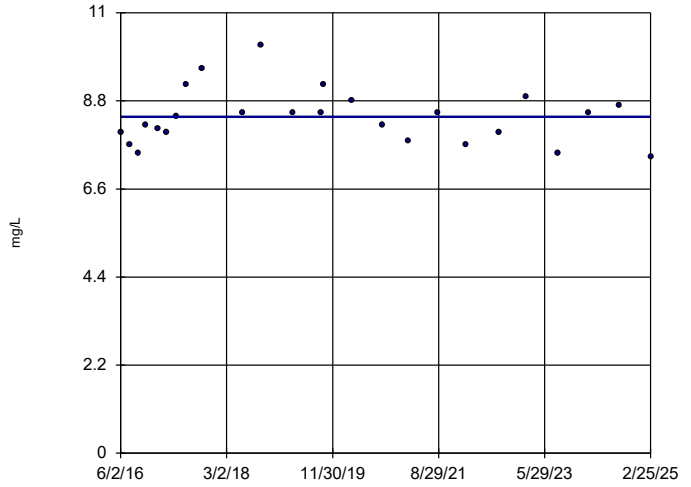
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 9 critical = 111

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

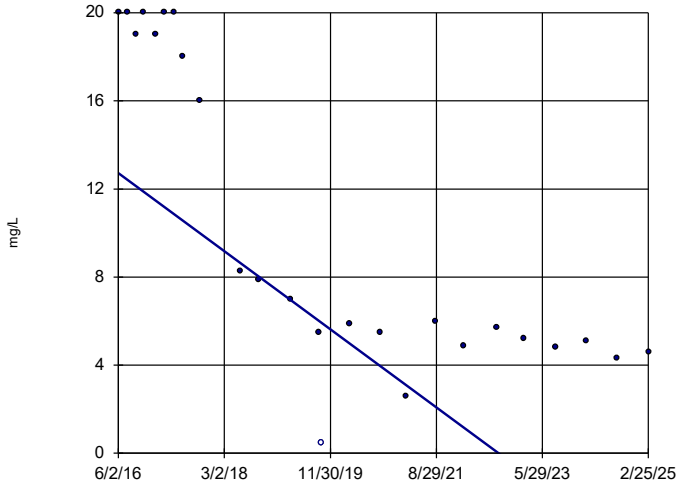
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 25

Slope = -2.029 units per year.

Mann-Kendall statistic = -218 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

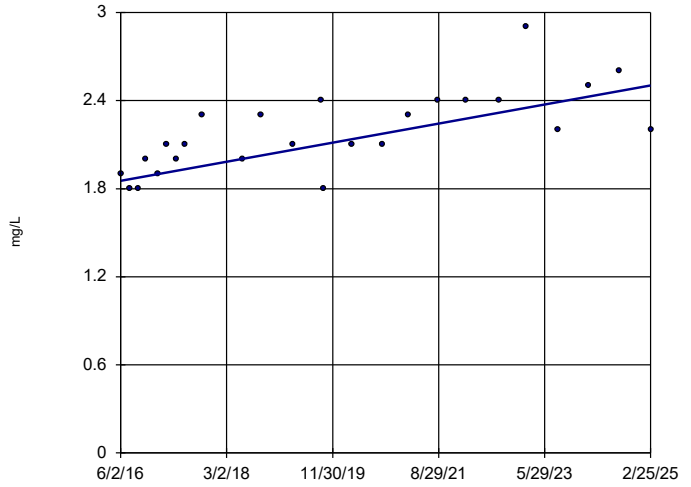
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 25

Slope = 0.07442 units per year.

Mann-Kendall statistic = 179 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

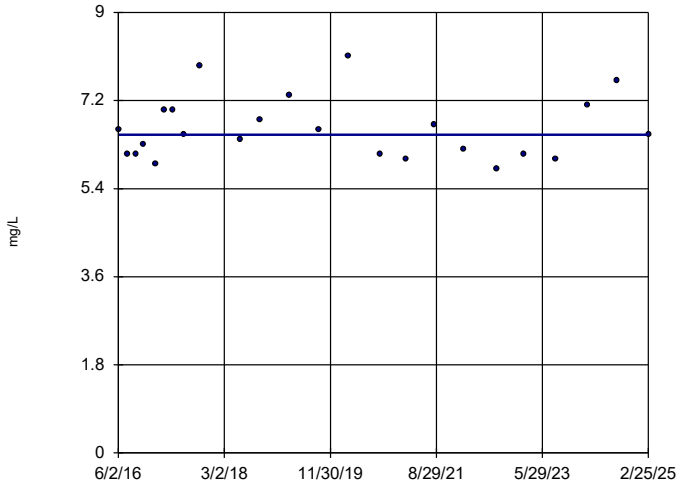
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 4 critical = 105

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

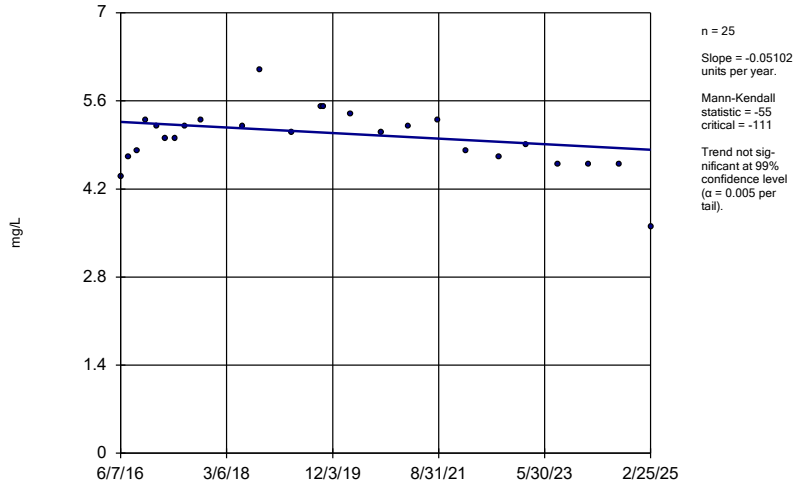
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = -0.05102 units per year.

Mann-Kendall statistic = -55 critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

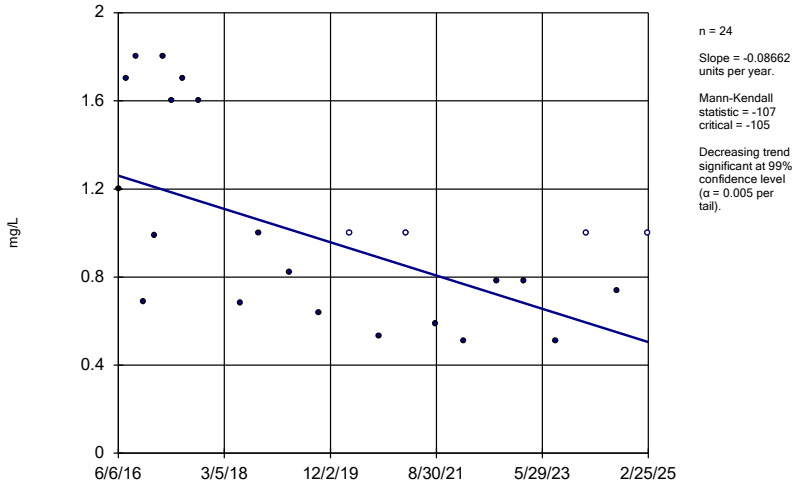
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = -0.08662 units per year.

Mann-Kendall statistic = -107 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

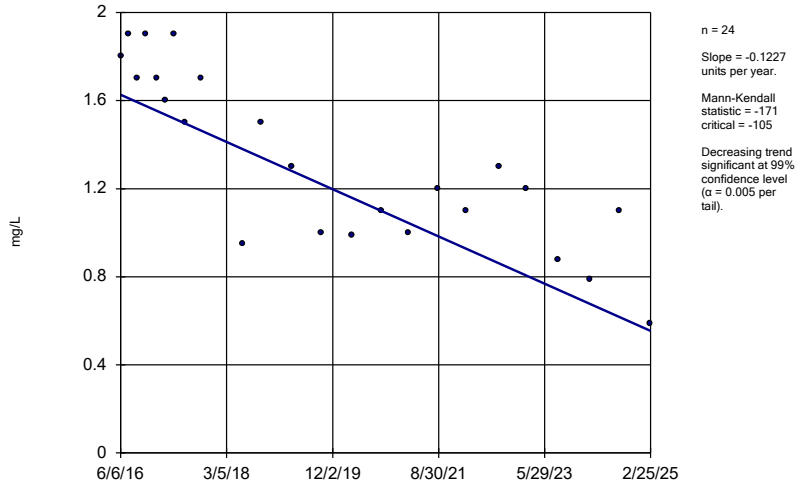
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = -0.1227 units per year.

Mann-Kendall statistic = -171 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

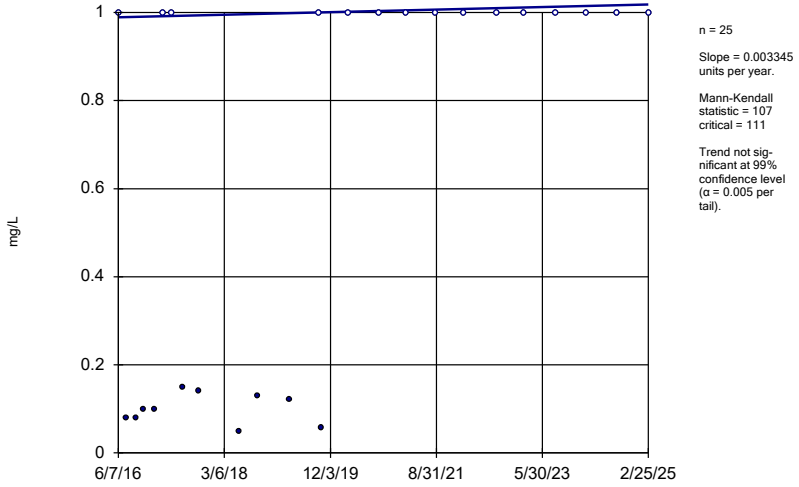
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 25

Slope = 0.003345 units per year.

Mann-Kendall statistic = 107 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

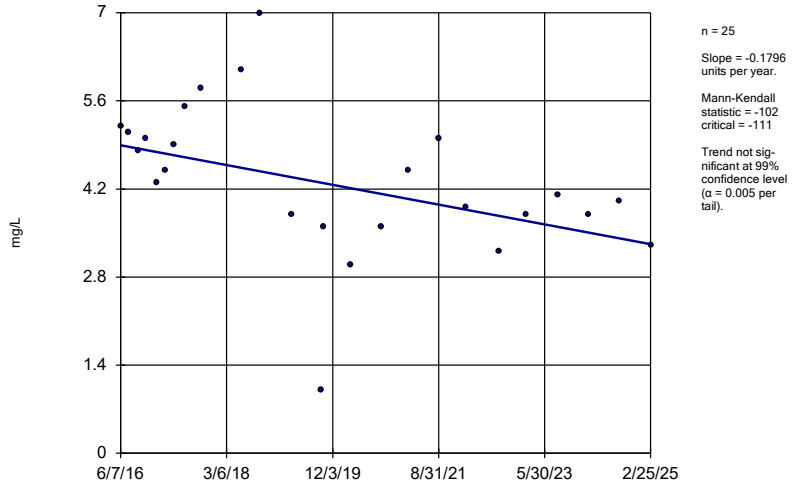
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 25

Slope = -0.1796 units per year.

Mann-Kendall statistic = -102 critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

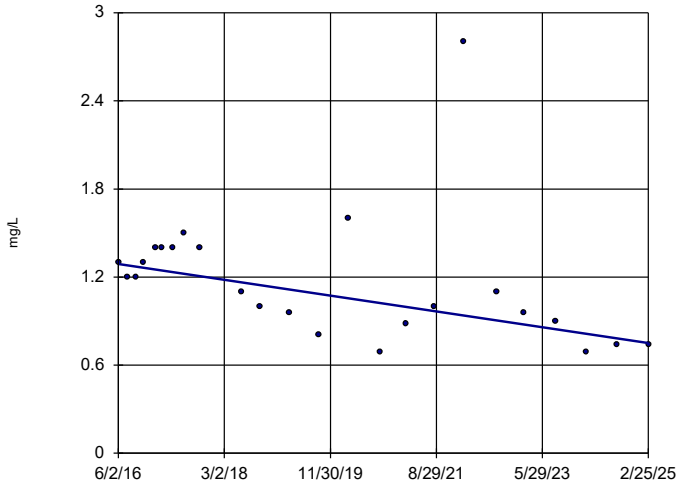
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = -0.0618 units per year.

Mann-Kendall statistic = -109 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

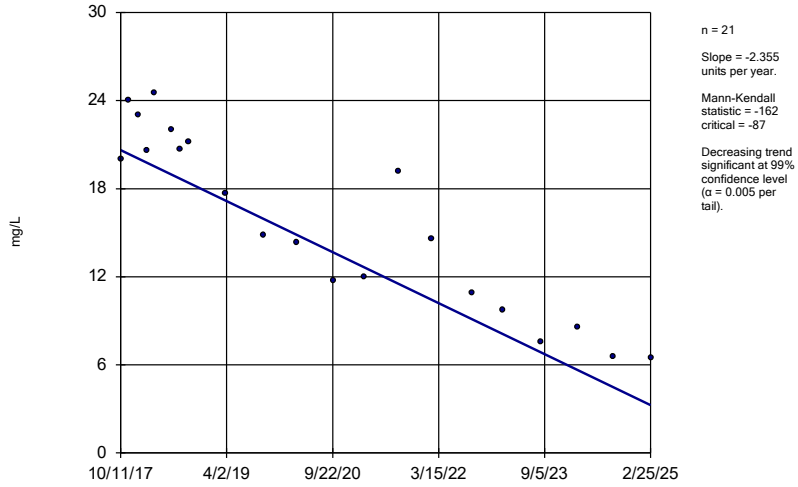
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = -2.355 units per year.

Mann-Kendall statistic = -162 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

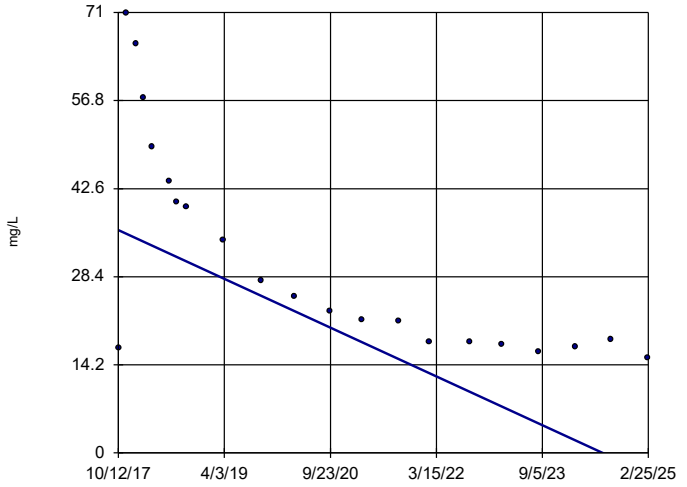
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = -5.328 units per year.

Mann-Kendall statistic = -161 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

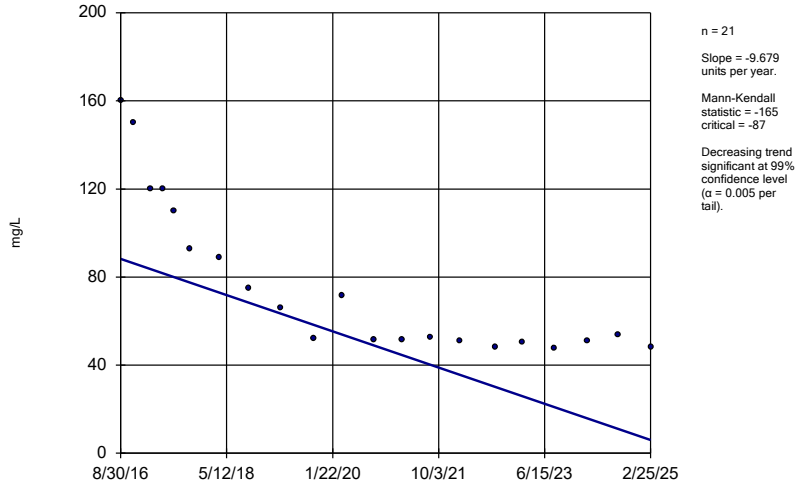
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -9.679 units per year.

Mann-Kendall statistic = -165 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

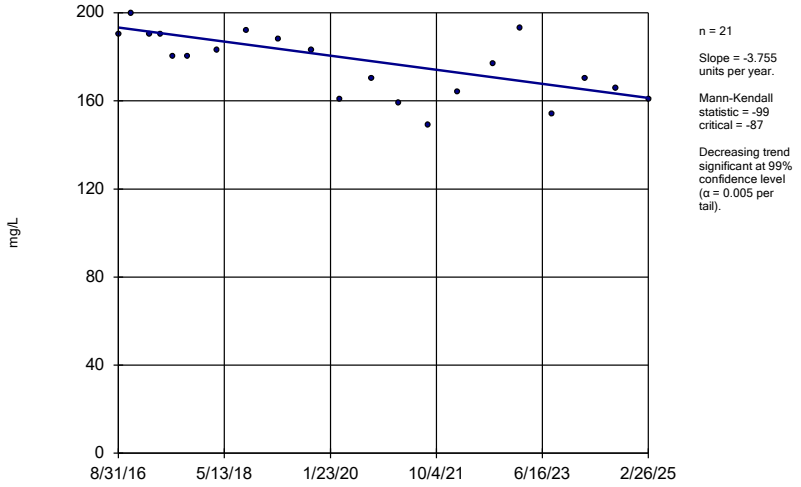
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-45



n = 21

Slope = -3.755 units per year.

Mann-Kendall statistic = -99 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

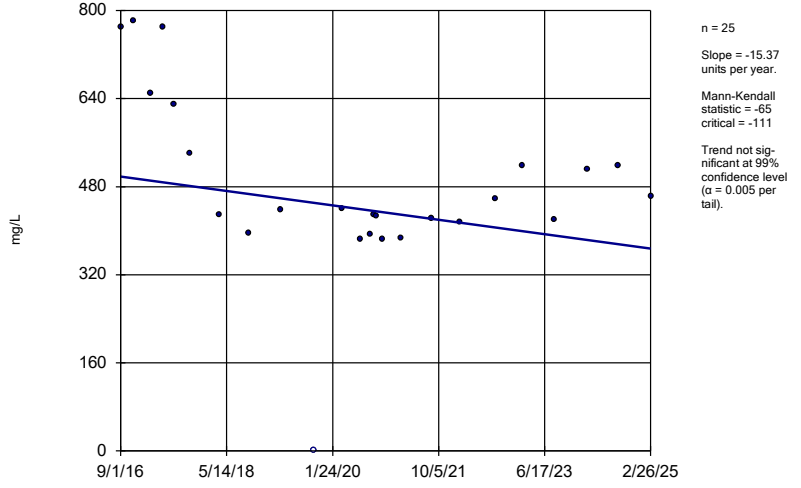
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWC-46A



n = 25

Slope = -15.37 units per year.

Mann-Kendall statistic = -65 critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

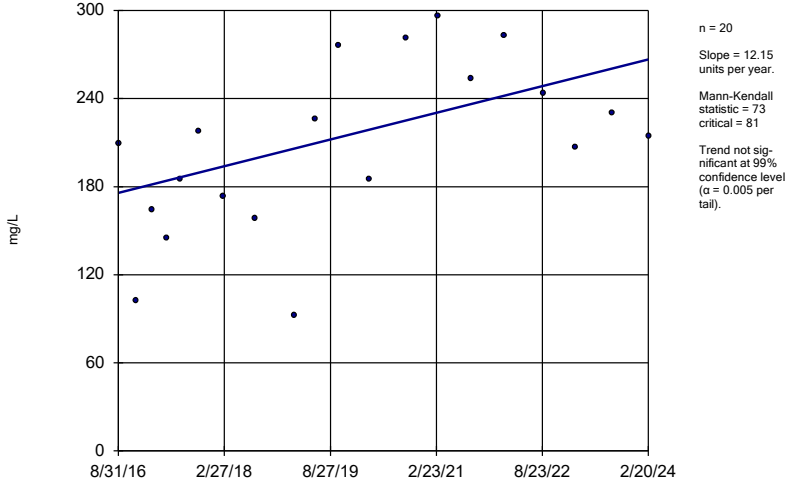
Constituent: Sulfate Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 12.15 units per year.

Mann-Kendall statistic = 73 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

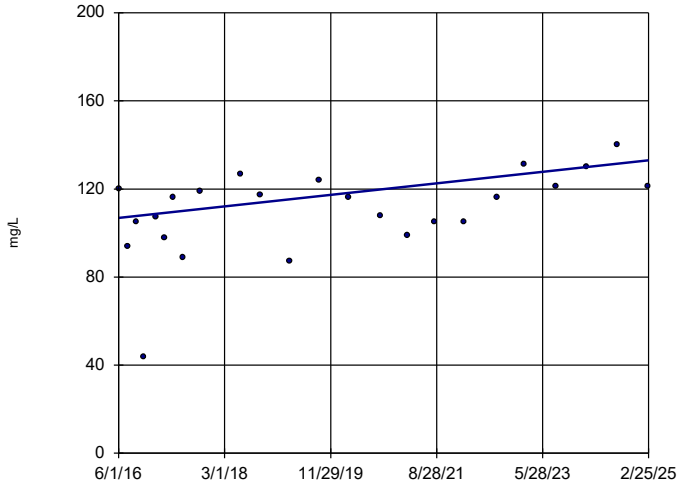
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = 2.993 units per year.

Mann-Kendall statistic = 99 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

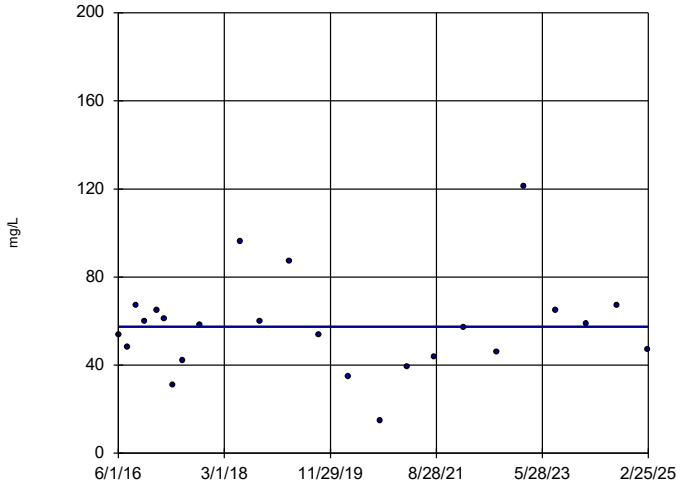
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 2 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

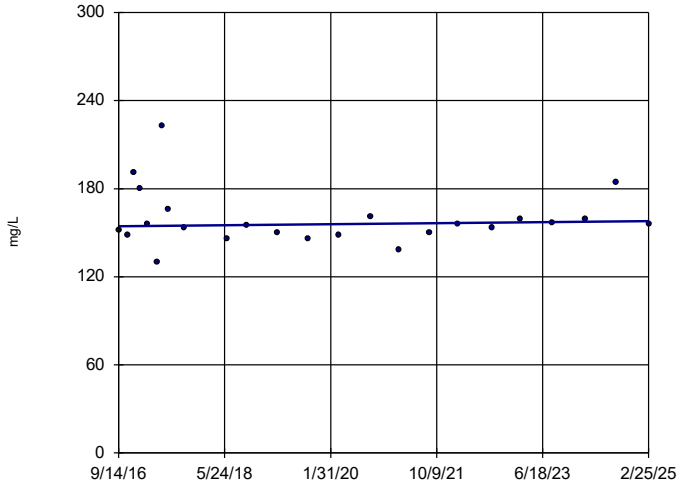
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = 0.4129 units per year.

Mann-Kendall statistic = 20 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

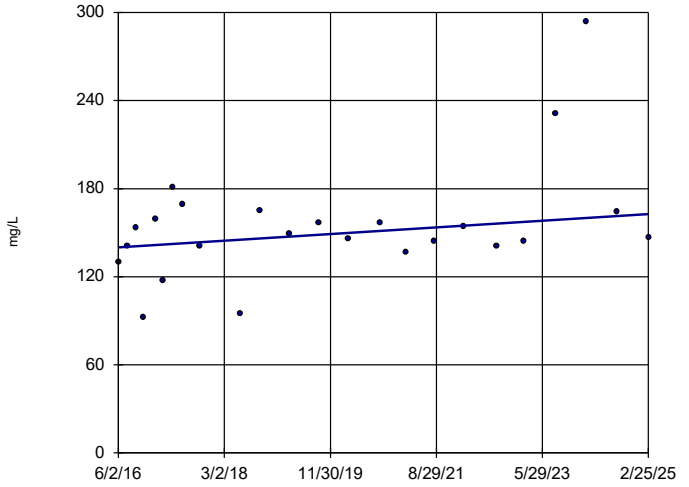
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = 2.591 units per year.

Mann-Kendall statistic = 59 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

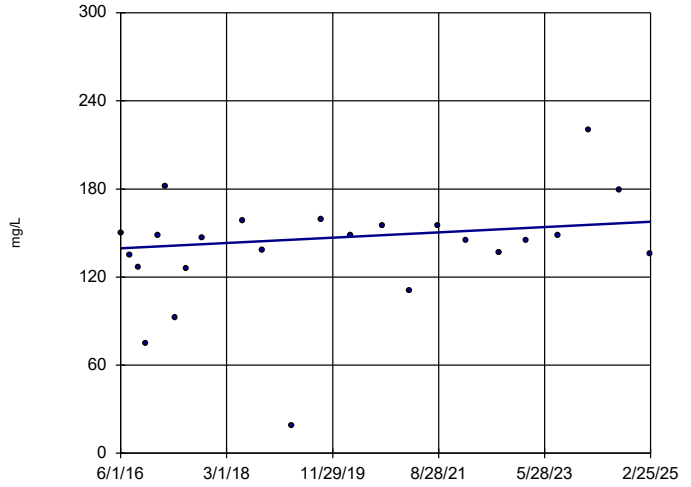
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = 2.067 units per year.

Mann-Kendall statistic = 45 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

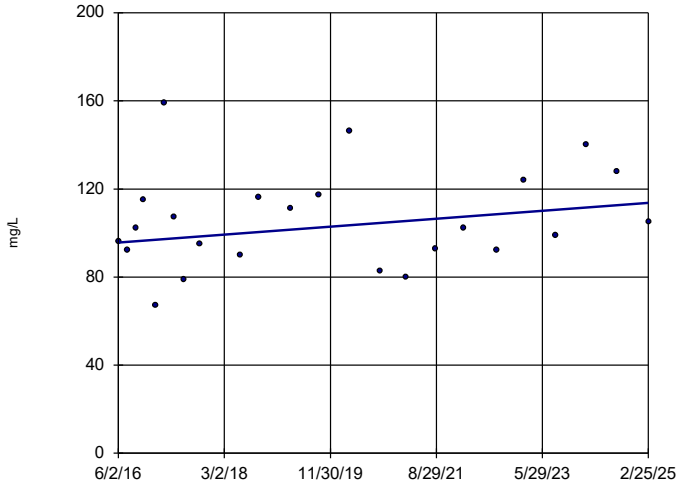
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 24

Slope = 2.052 units per year.

Mann-Kendall statistic = 50 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

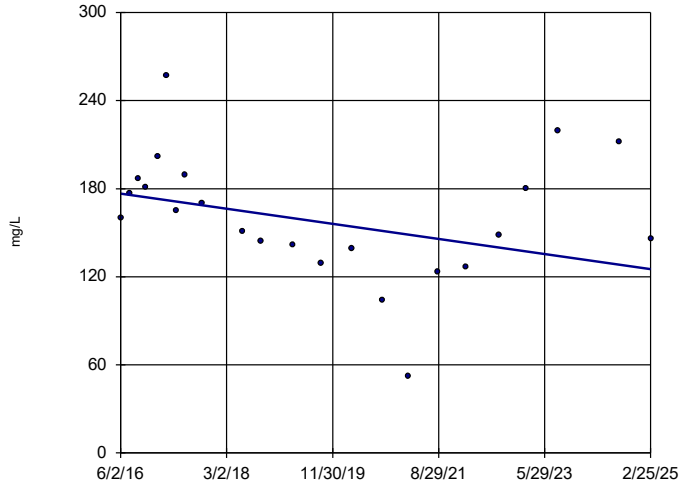
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -5.897 units per year.

Mann-Kendall statistic = -61 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

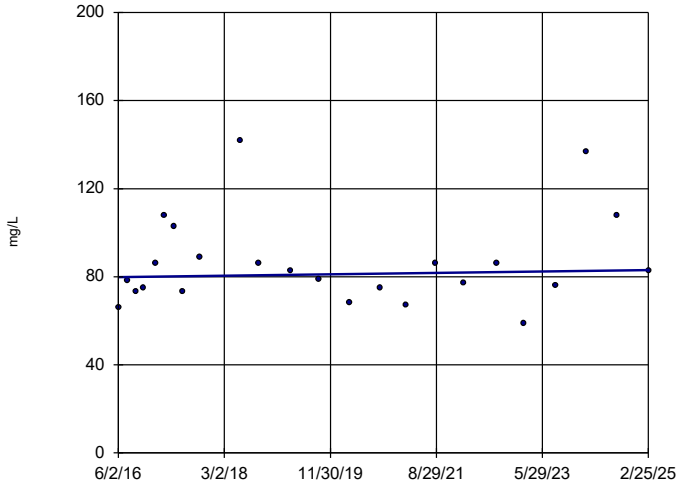
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 24

Slope = 0.3624 units per year.

Mann-Kendall statistic = 18 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

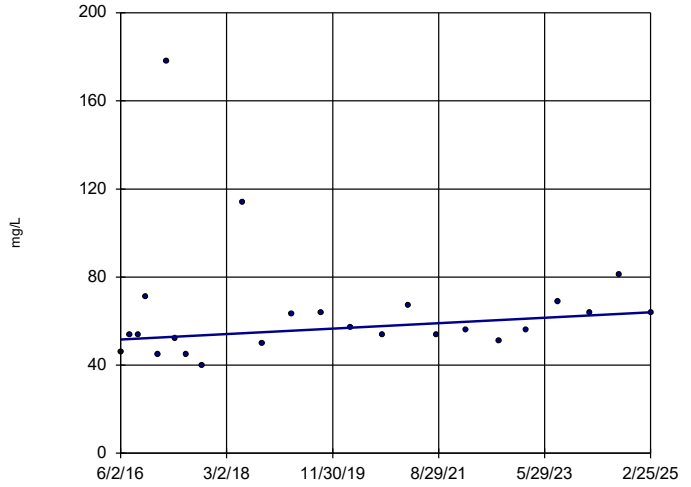
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = 1.401 units per year.

Mann-Kendall statistic = 67 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

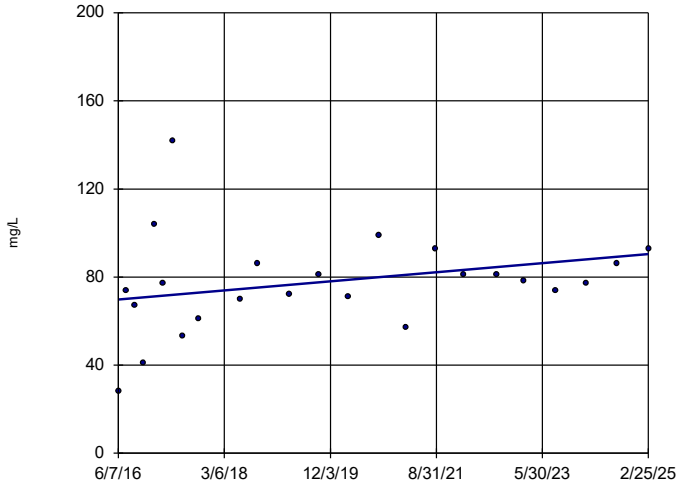
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 24

Slope = 2.373 units per year.

Mann-Kendall statistic = 77 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

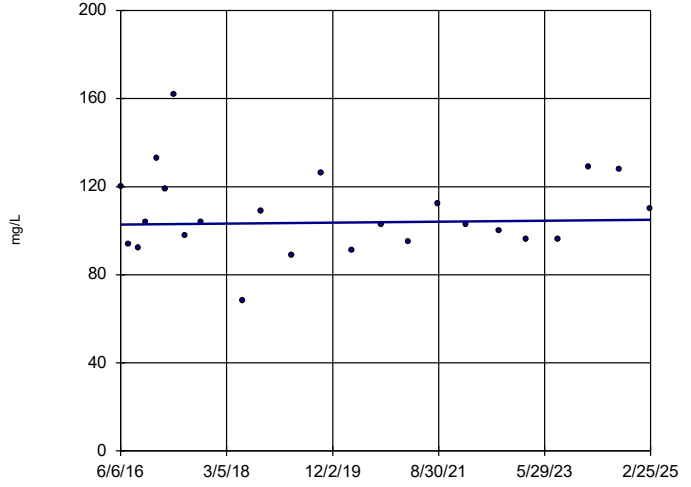
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = 0.2504 units per year.

Mann-Kendall statistic = 7 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

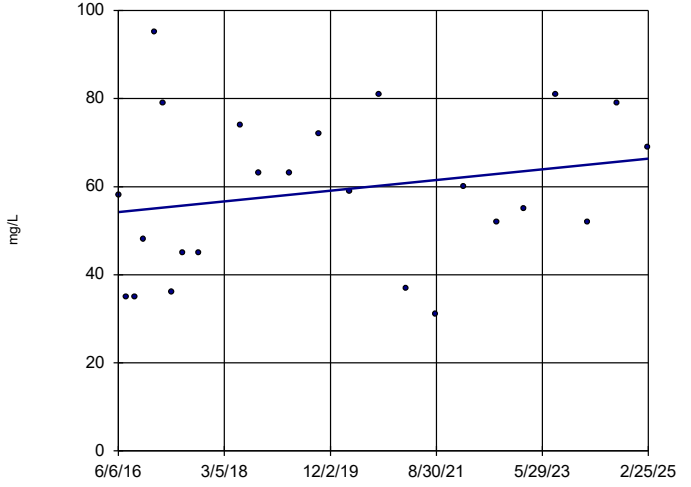
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = 1.39 units per year.

Mann-Kendall statistic = 46 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

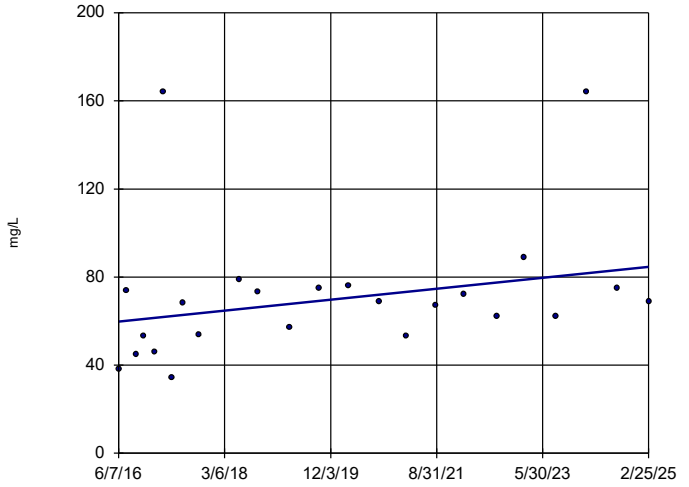
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 24

Slope = 2.836 units per year.

Mann-Kendall statistic = 81 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

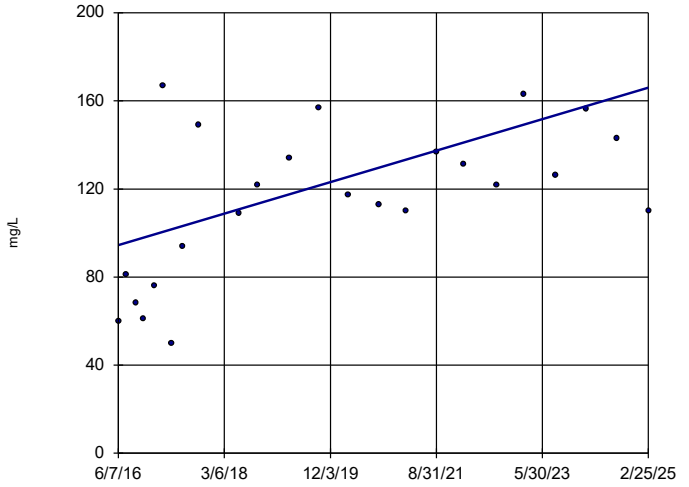
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 24

Slope = 8.192 units per year.

Mann-Kendall statistic = 112 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

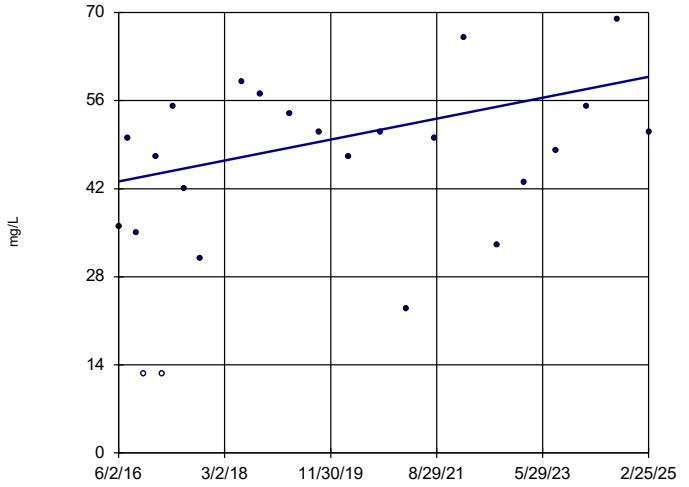
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = 1.9 units per year.

Mann-Kendall statistic = 69 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

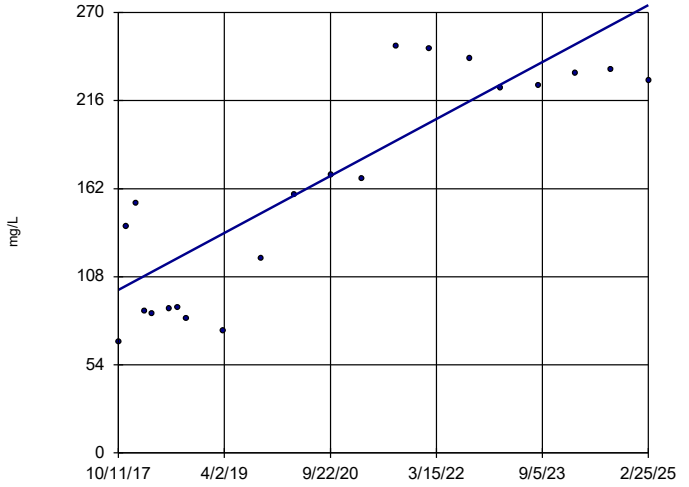
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = 23.65 units per year.

Mann-Kendall statistic = 120 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

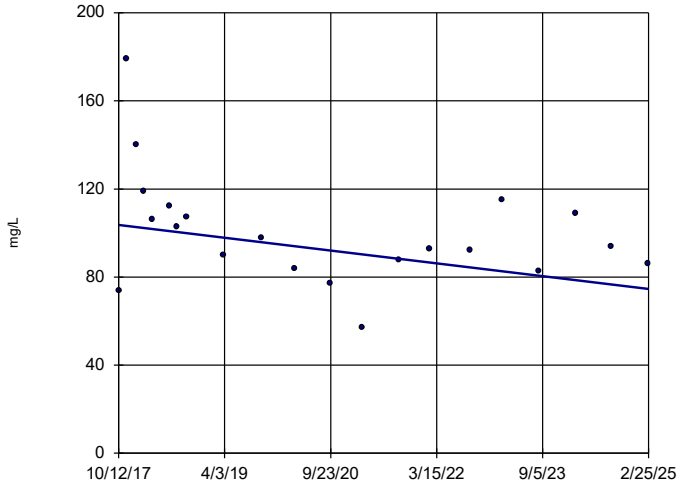
Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = -3.94 units per year.

Mann-Kendall statistic = -62
critical = -87

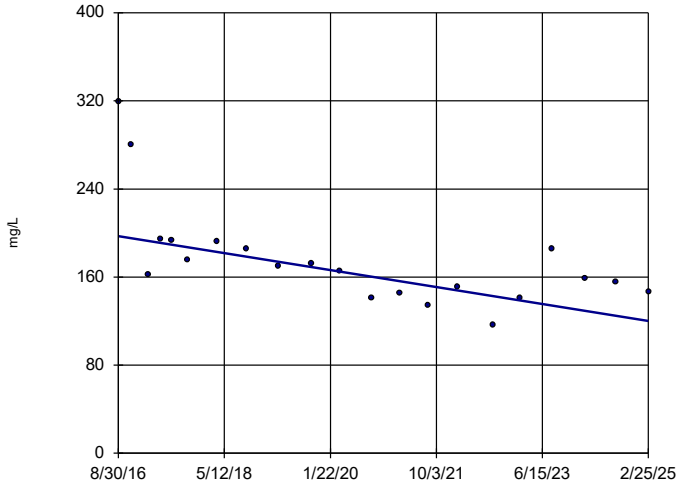
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -9.065 units per year.

Mann-Kendall statistic = -118
critical = -87

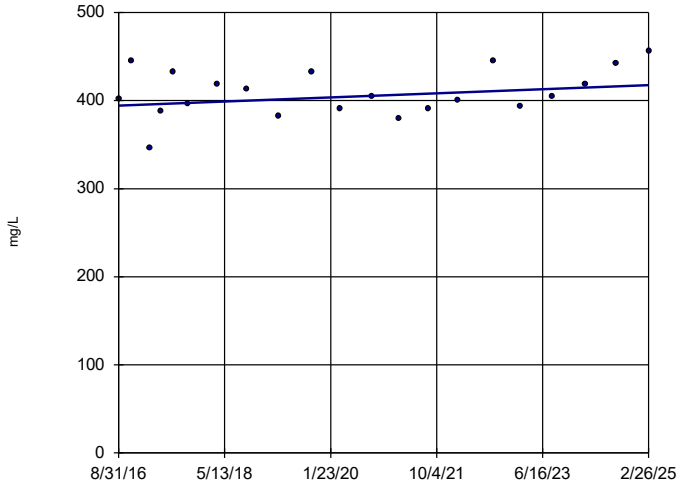
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-45



n = 21

Slope = 2.772 units per year.

Mann-Kendall statistic = 42
critical = 87

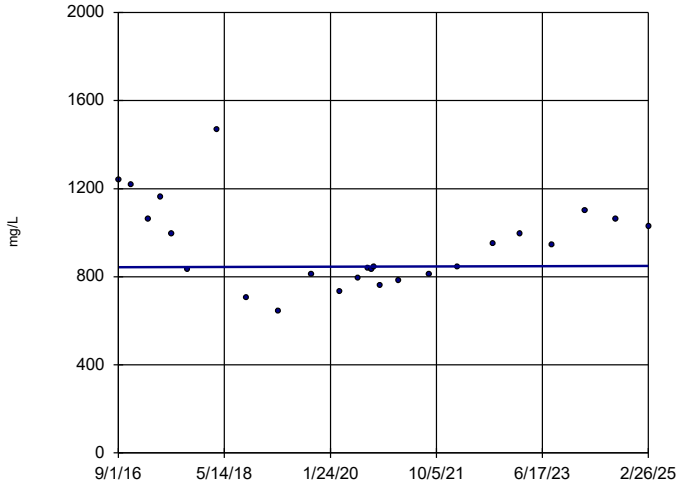
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-46A



n = 25

Slope = 0.7857 units per year.

Mann-Kendall statistic = 3
critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2025 11:07 AM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-1

FIGURE F.

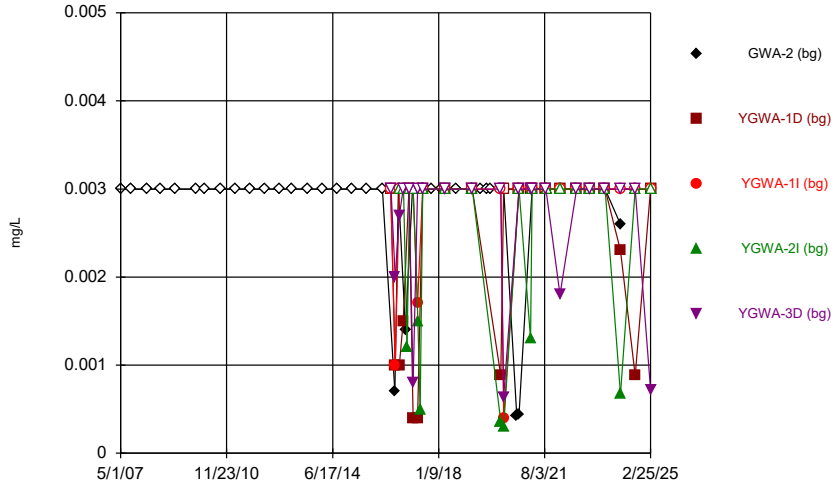
Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:42 AM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	467	n/a	n/a	87.58	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	515	n/a	n/a	74.56	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	515	n/a	n/a	2.136	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	499	n/a	n/a	80.36	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	499	n/a	n/a	94.79	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	467	n/a	n/a	80.51	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	508	n/a	n/a	69.49	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	493	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	1.1	518	n/a	n/a	54.25	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	469	n/a	n/a	87.85	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	493	n/a	n/a	27.18	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	423	n/a	n/a	87.23	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	457	n/a	n/a	61.49	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	497	n/a	n/a	92.96	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	431	n/a	n/a	97.22	n/a	n/a	NaN	NP Inter(NDs)

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

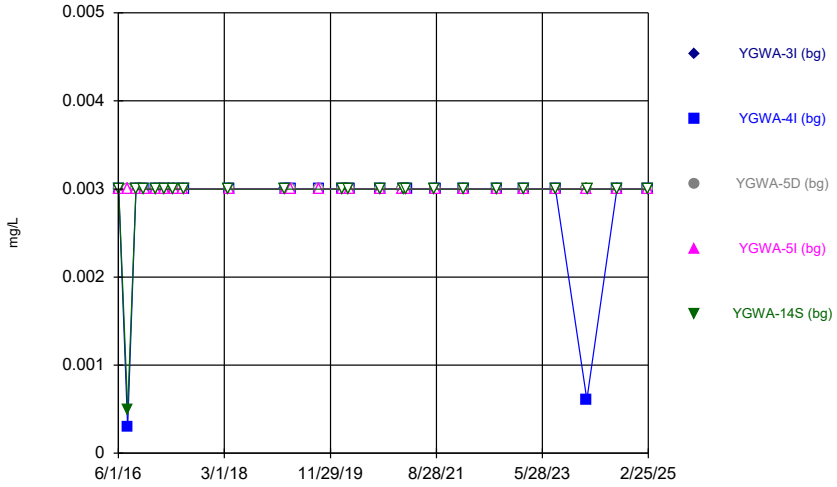
Time Series



Constituent: Antimony Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

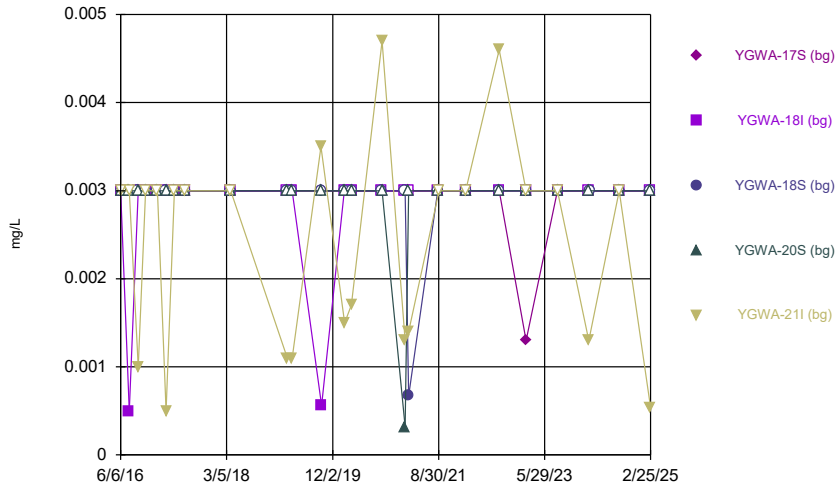
Time Series



Constituent: Antimony Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

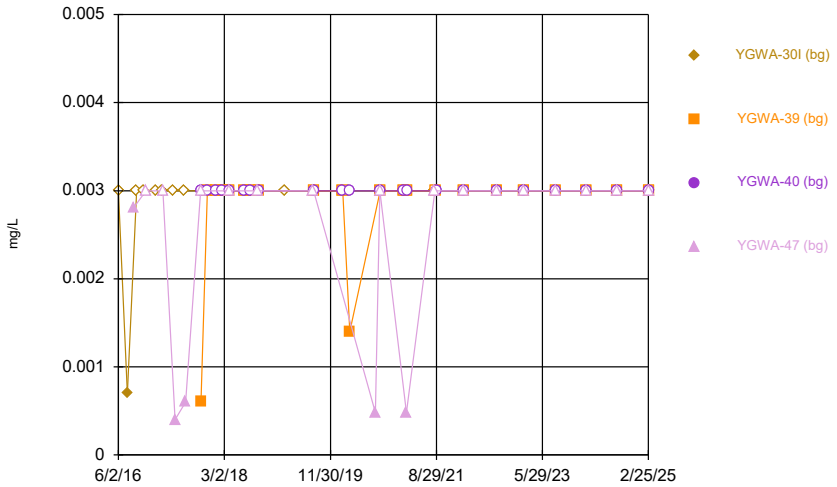
Time Series



Constituent: Antimony Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

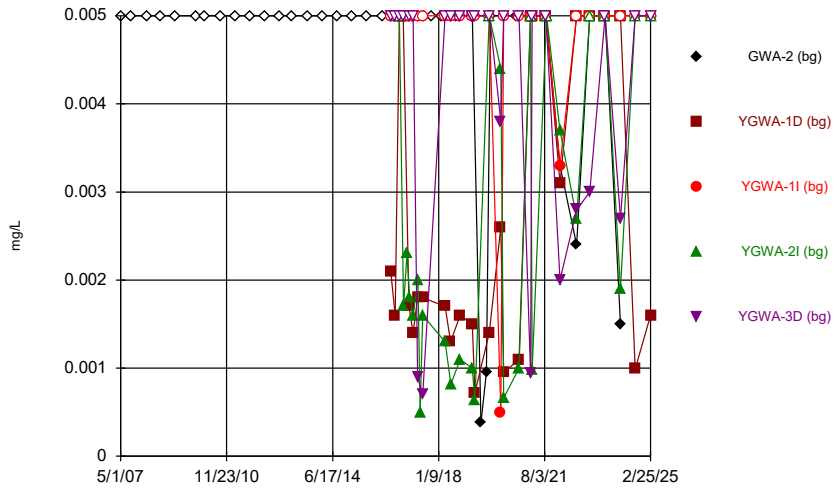
Time Series



Constituent: Antimony Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

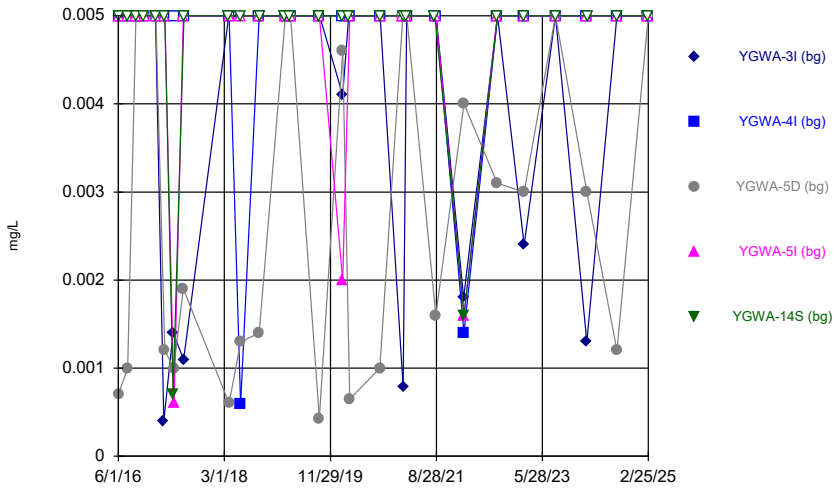
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

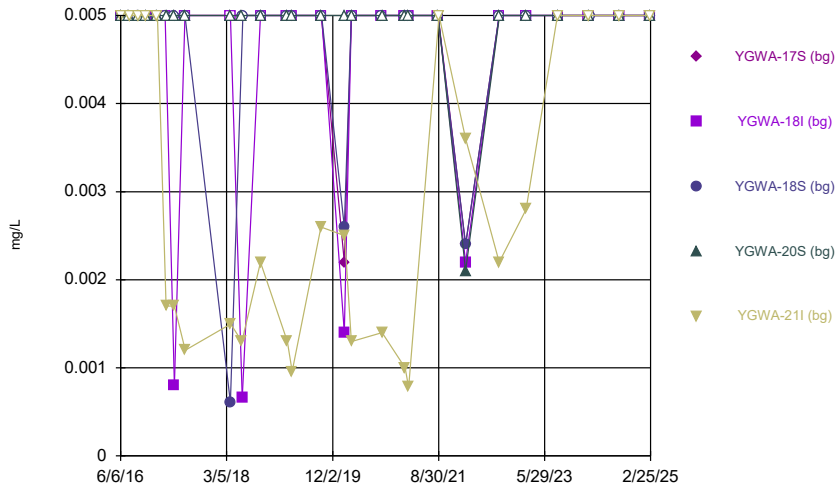
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

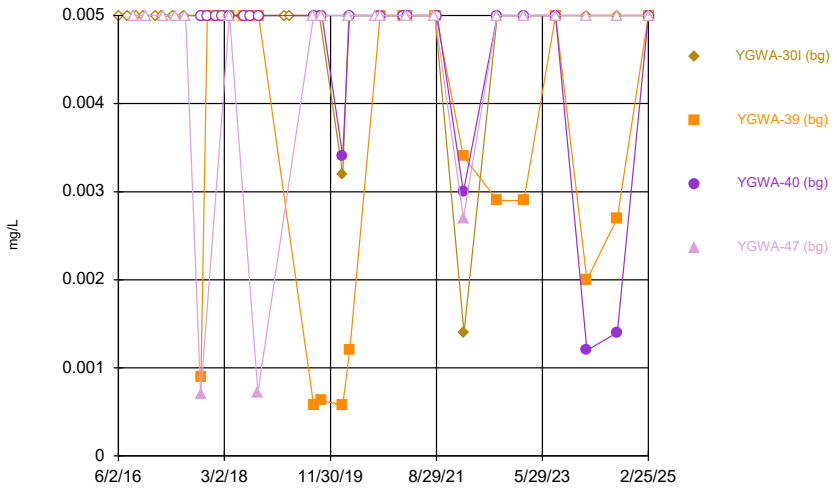
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

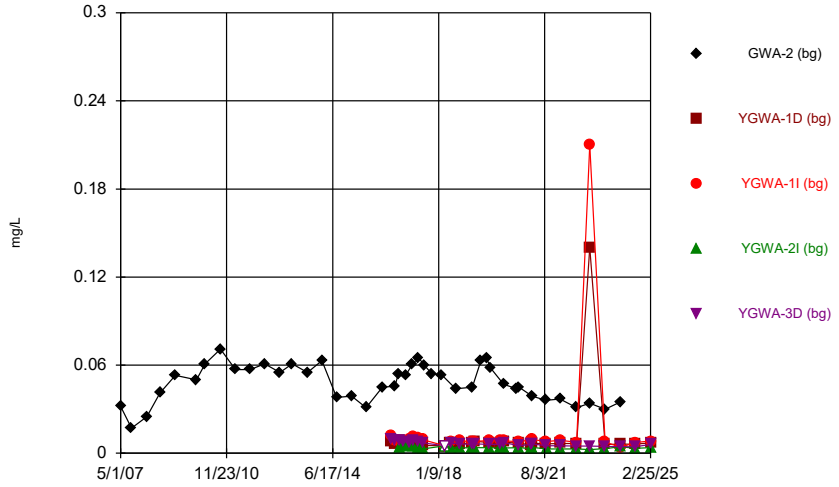
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

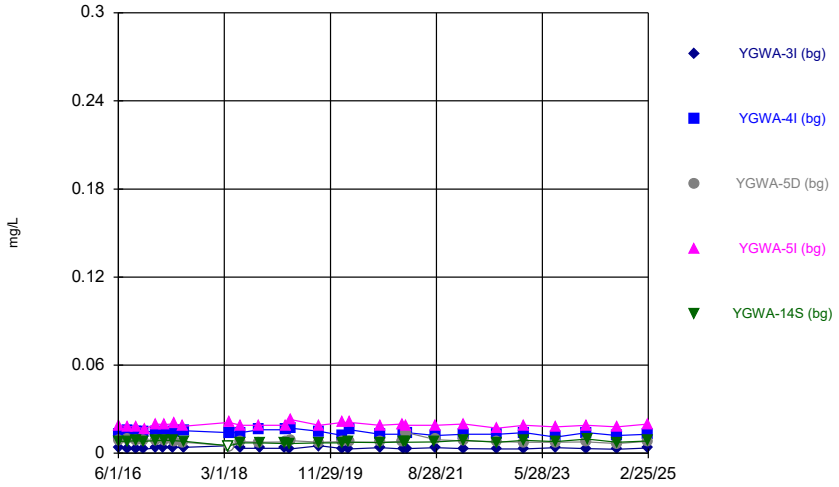
Time Series



Constituent: Barium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

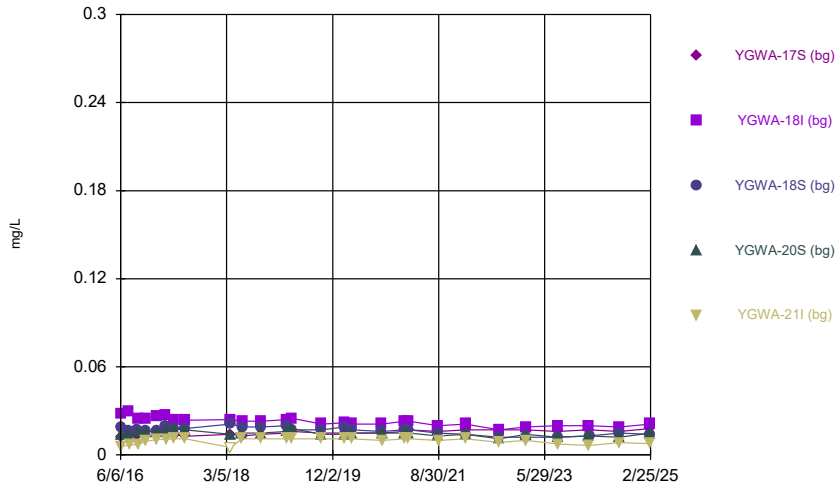
Time Series



Constituent: Barium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

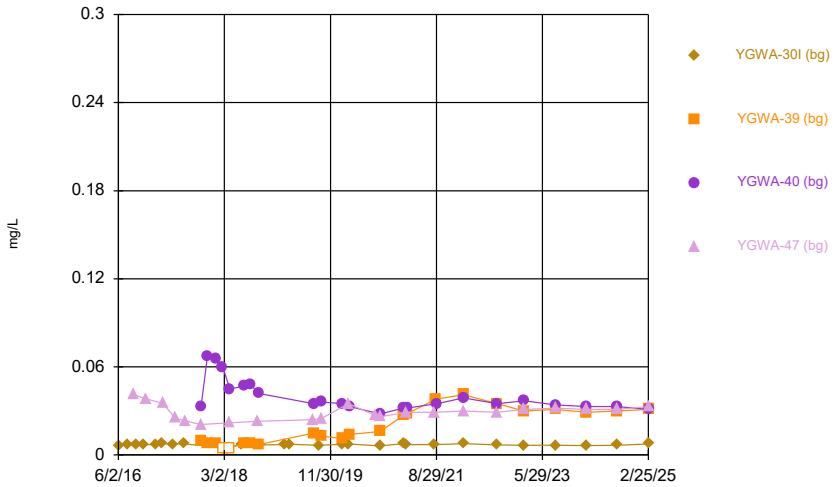
Time Series



Constituent: Barium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

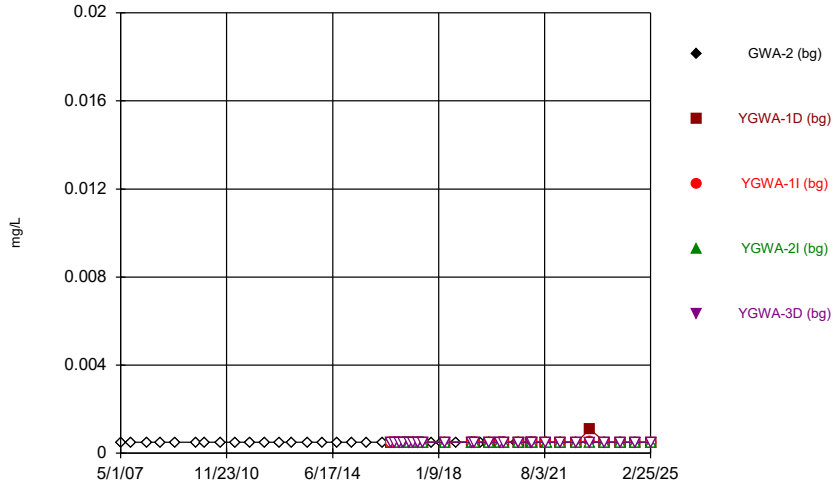
Time Series



Constituent: Barium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

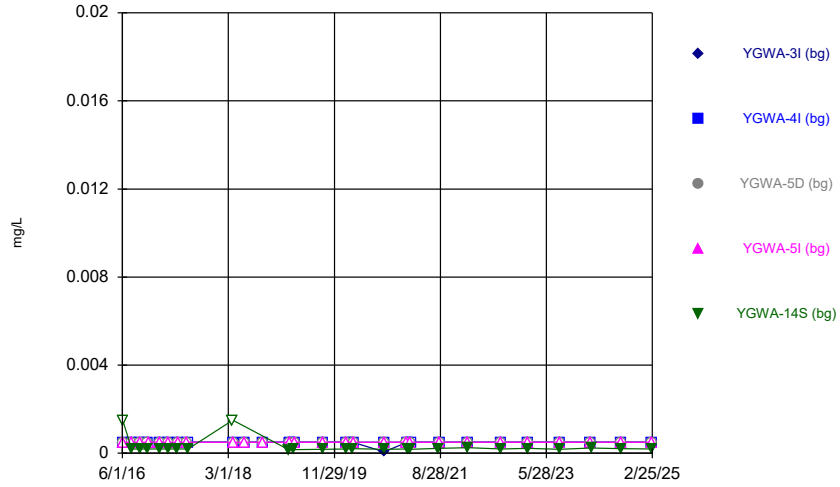
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

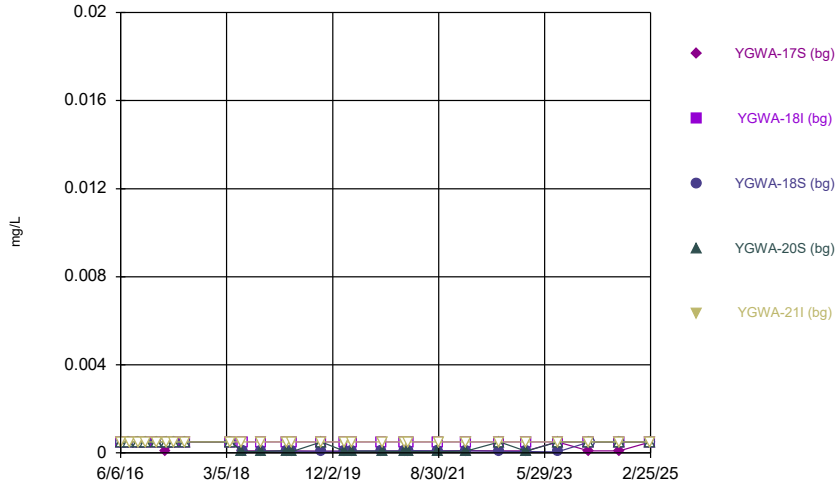
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

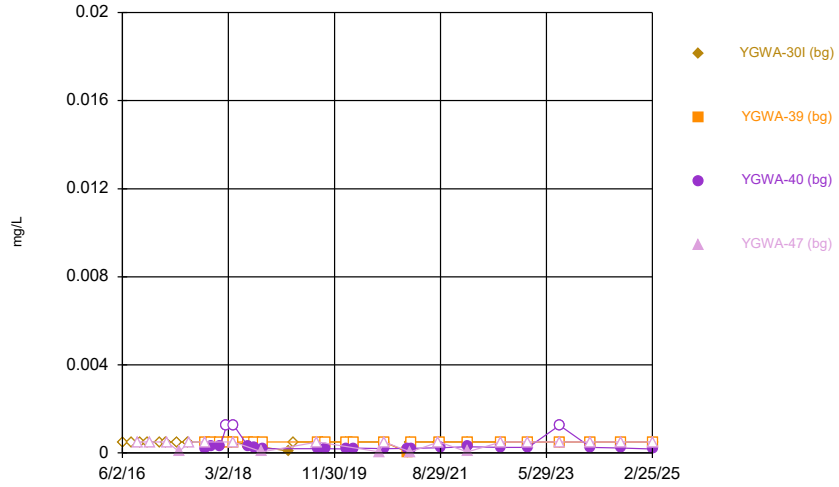
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

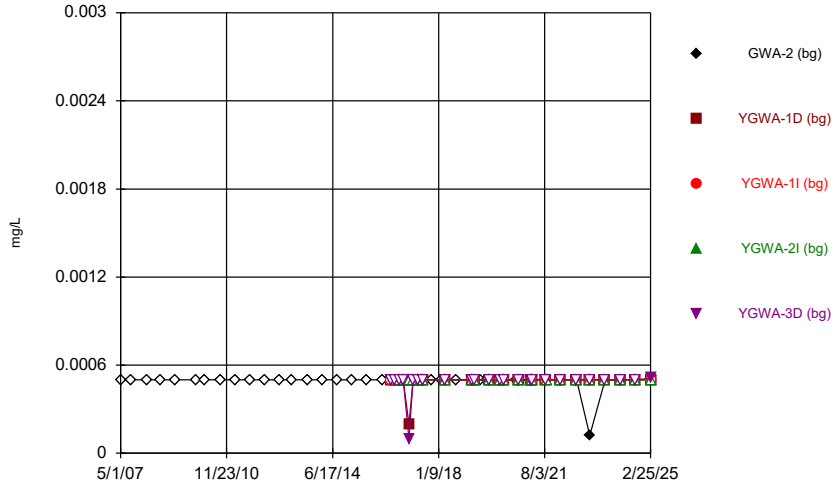
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

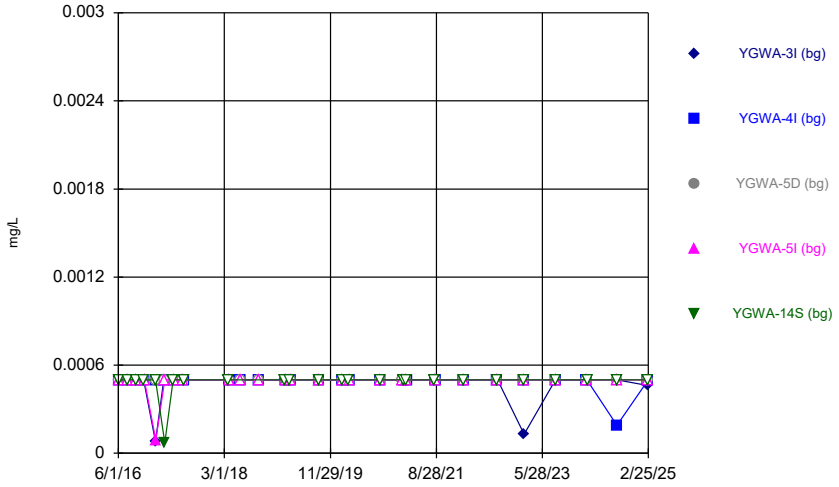
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

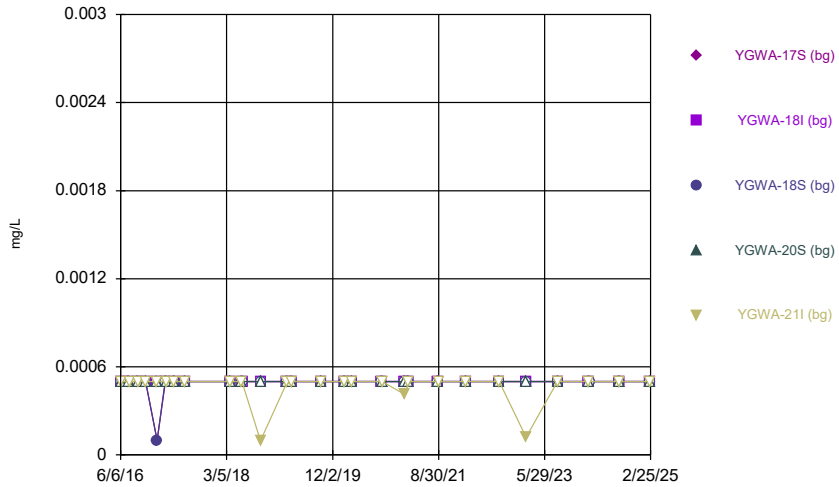
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

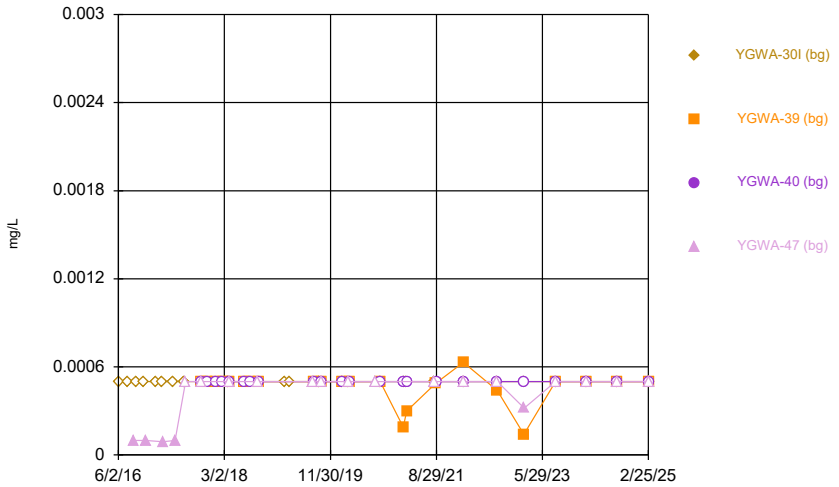
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

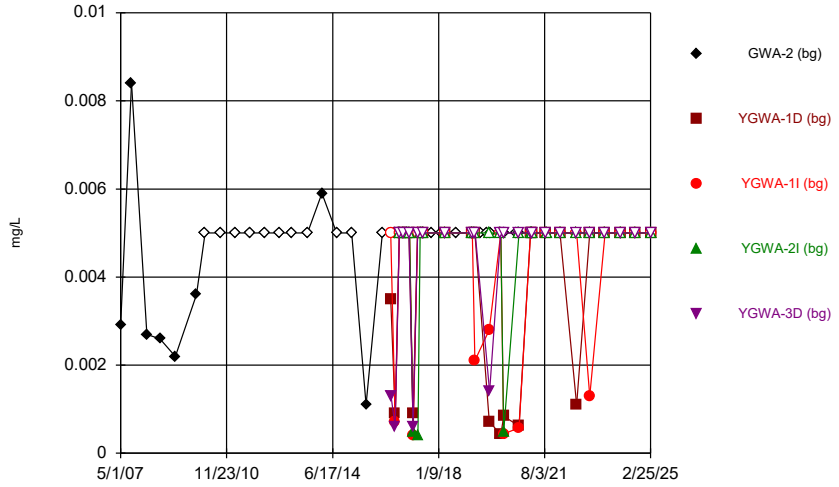
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

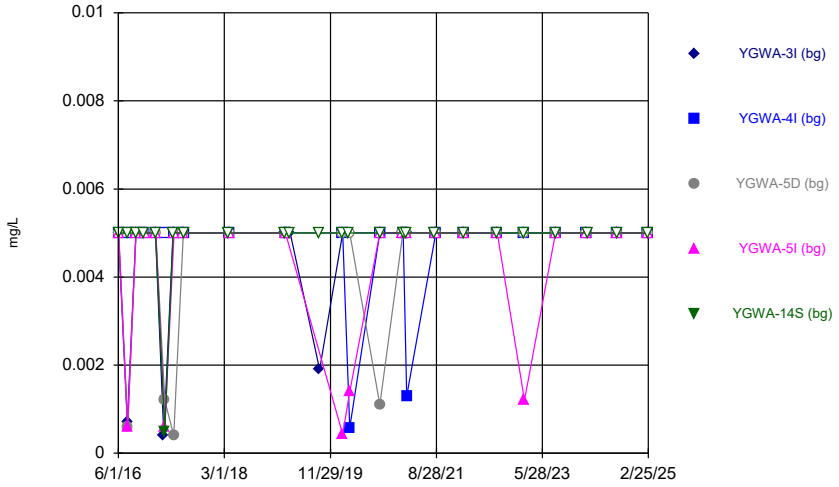
Time Series



Constituent: Chromium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

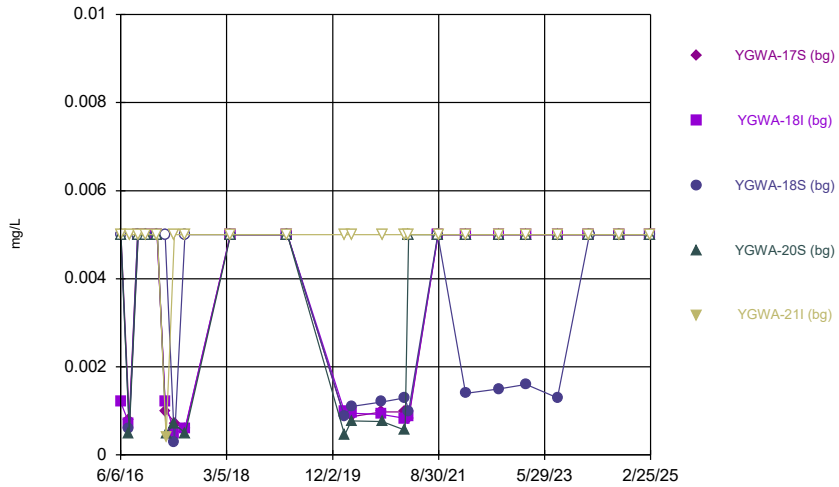
Time Series



Constituent: Chromium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

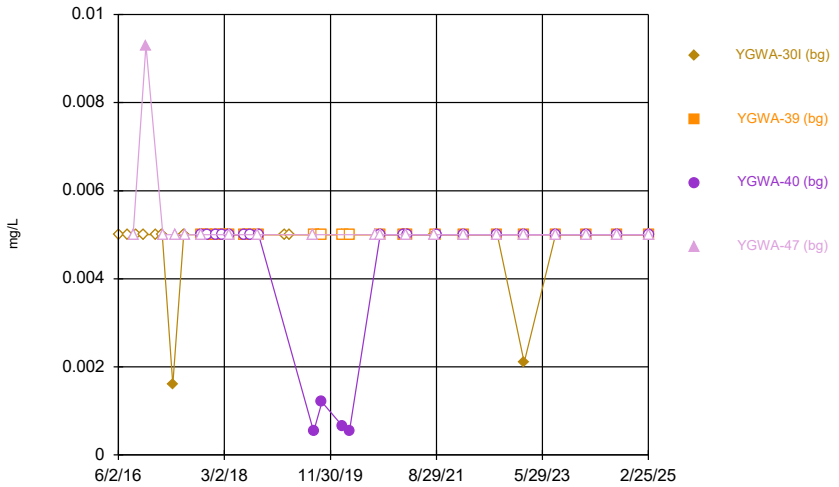
Time Series



Constituent: Chromium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

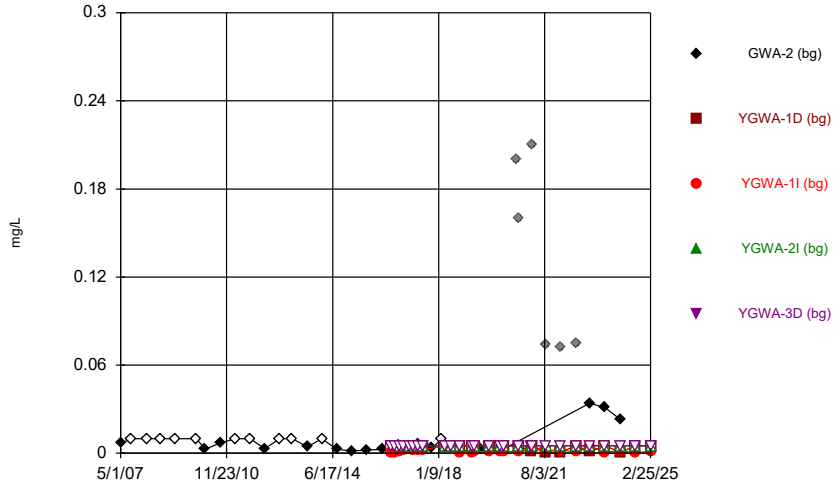
Time Series



Constituent: Chromium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

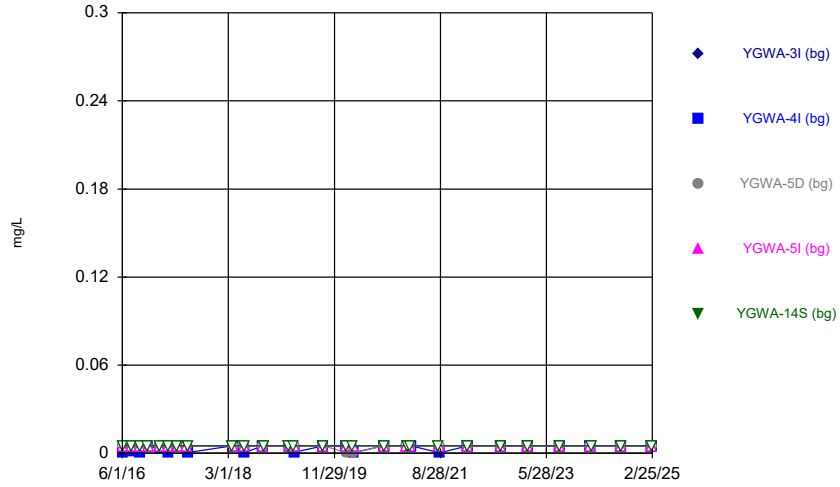
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

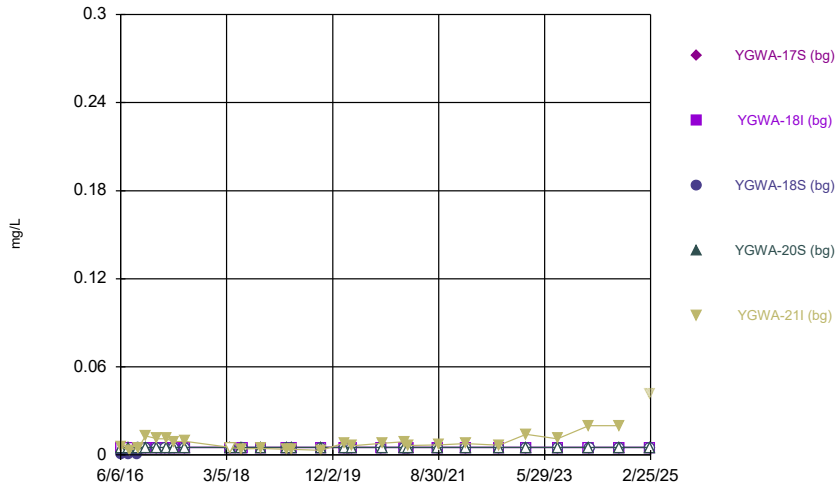
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

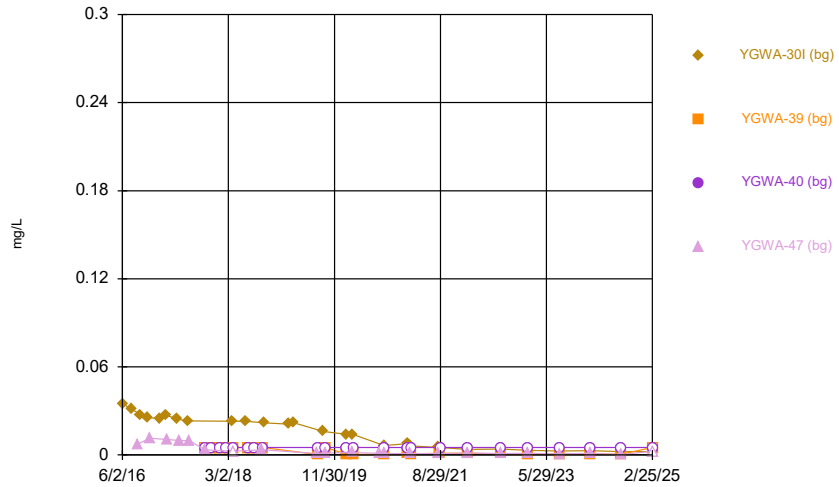
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

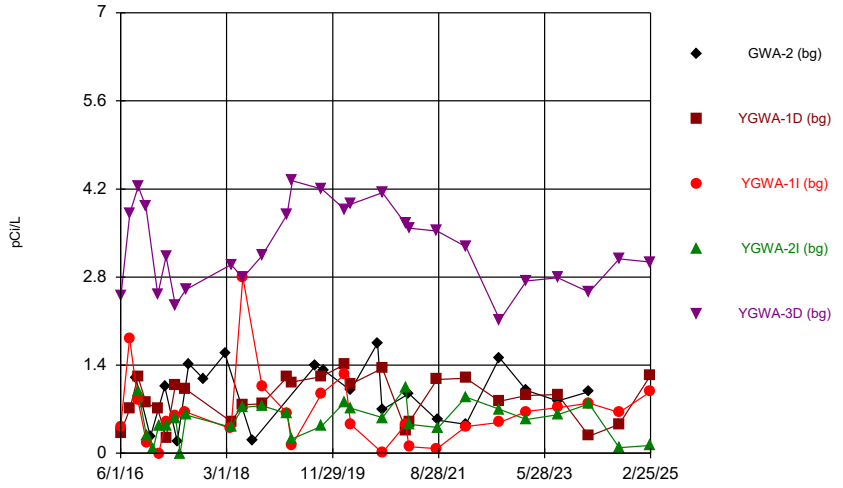
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

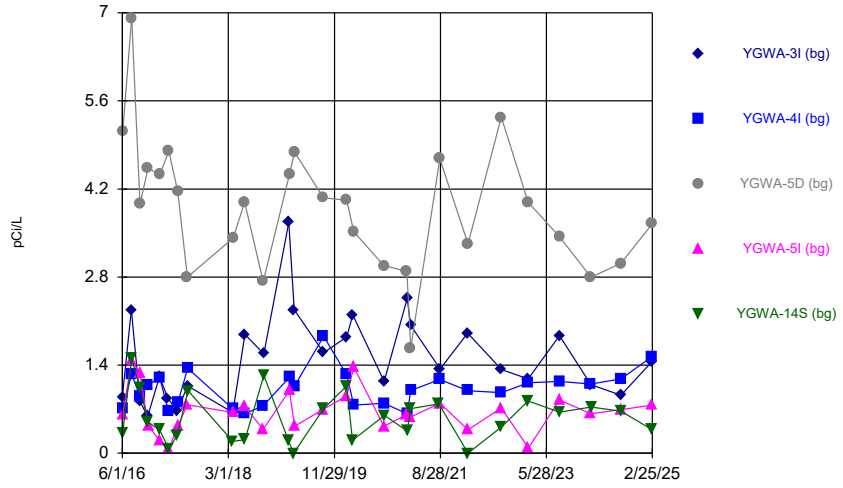
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

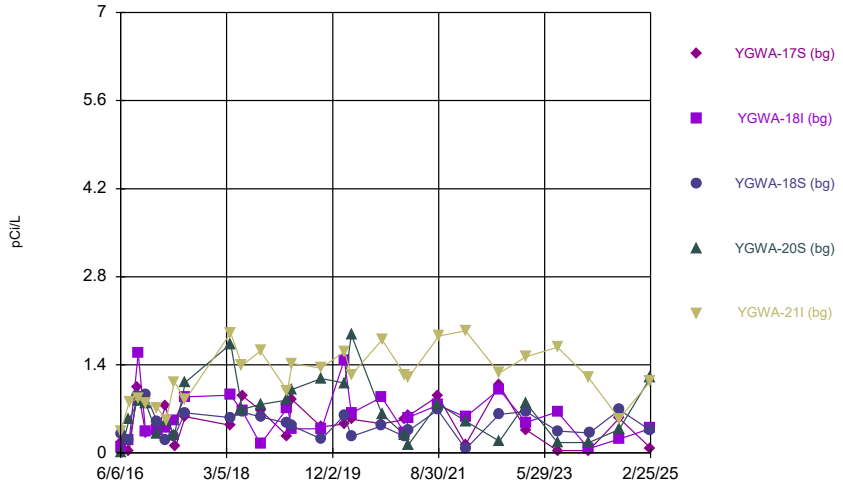
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

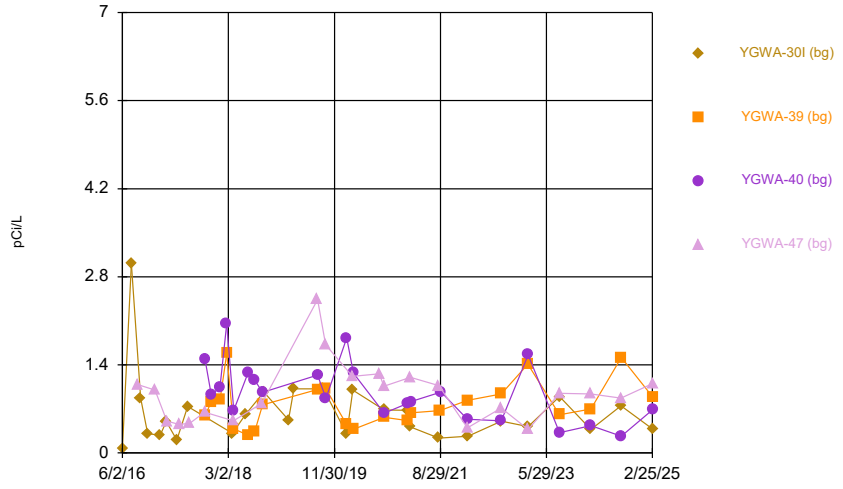
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

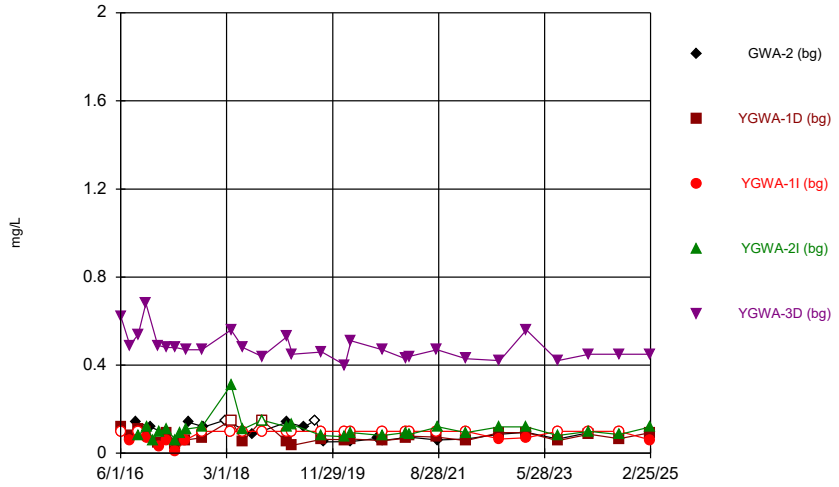
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

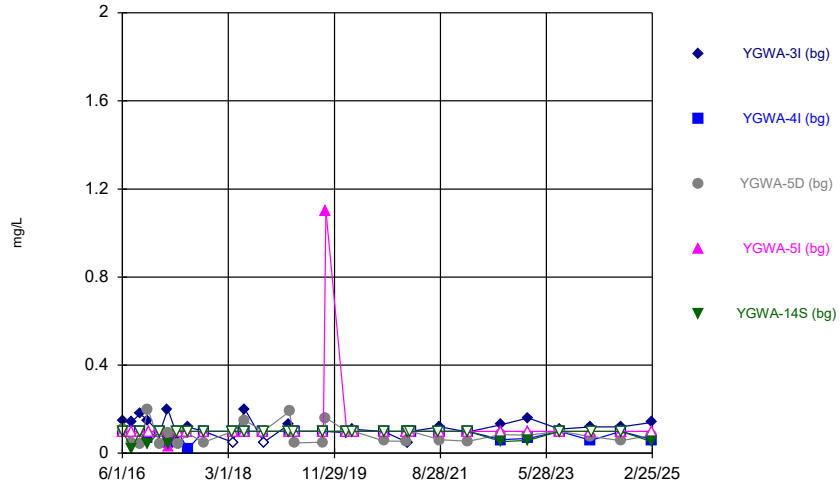
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

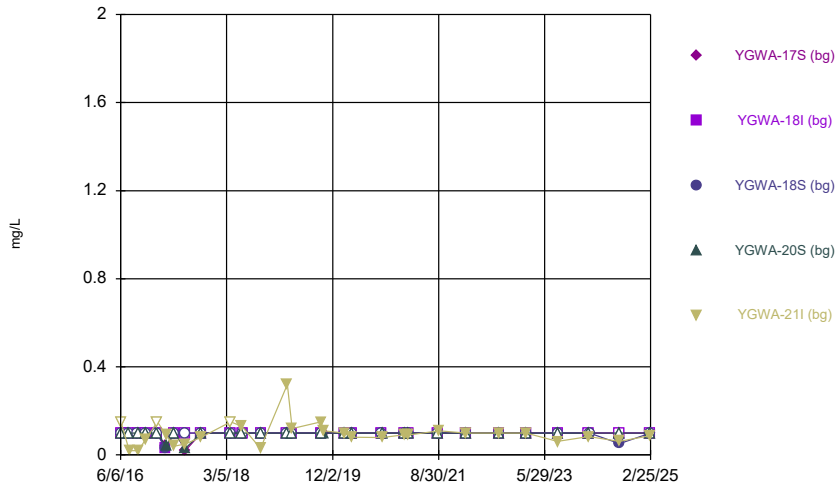
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

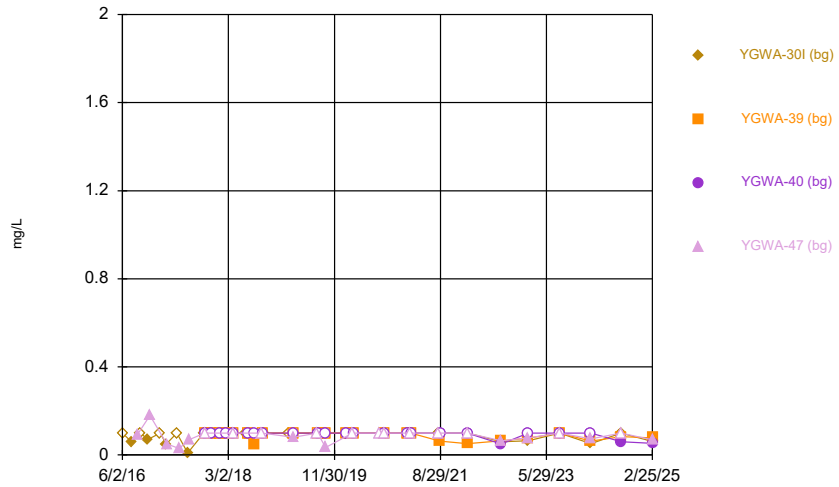
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

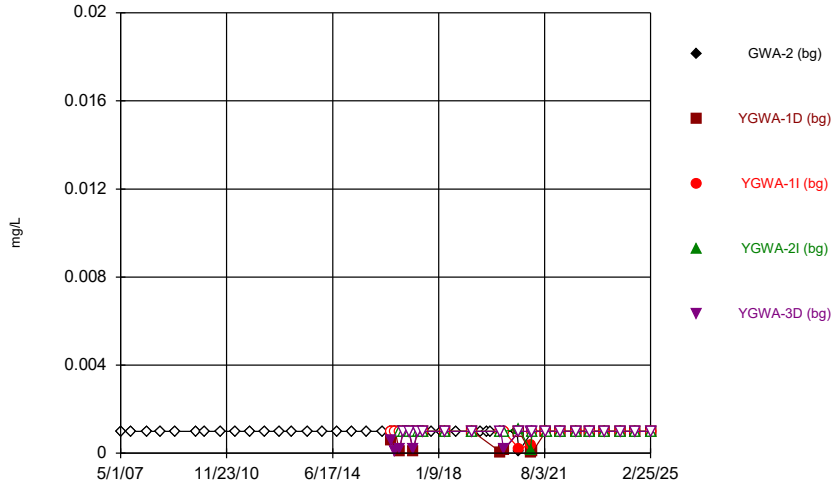
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

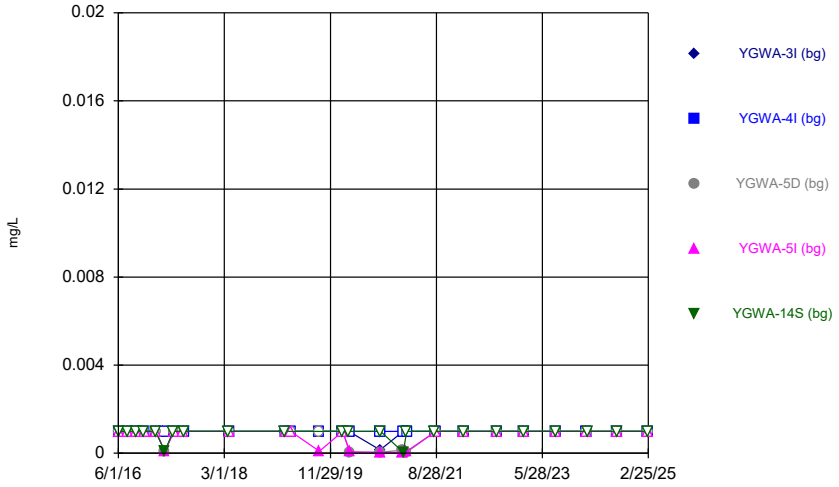
Time Series



Constituent: Lead Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

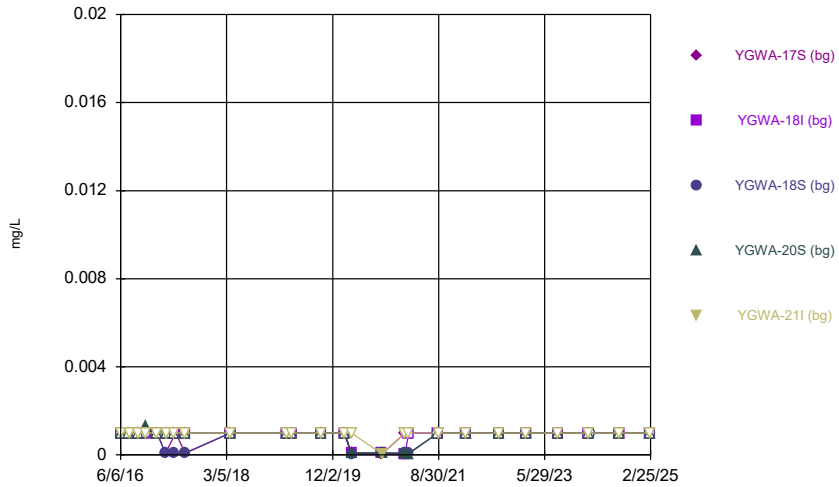
Time Series



Constituent: Lead Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

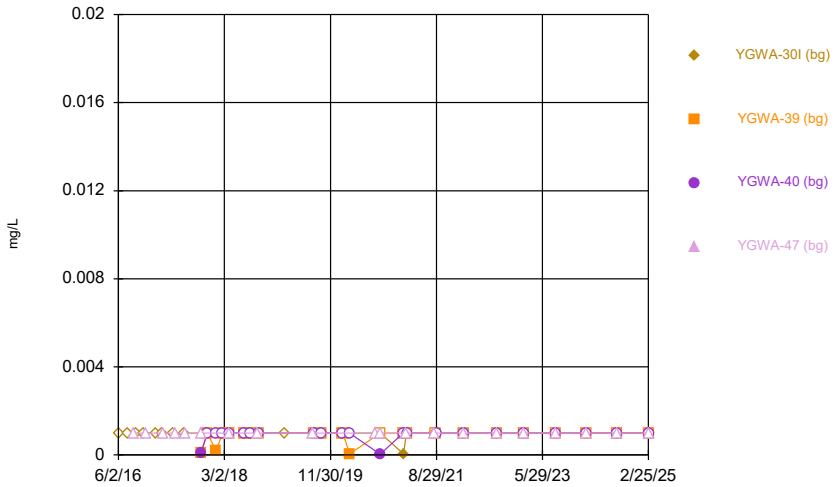
Time Series



Constituent: Lead Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

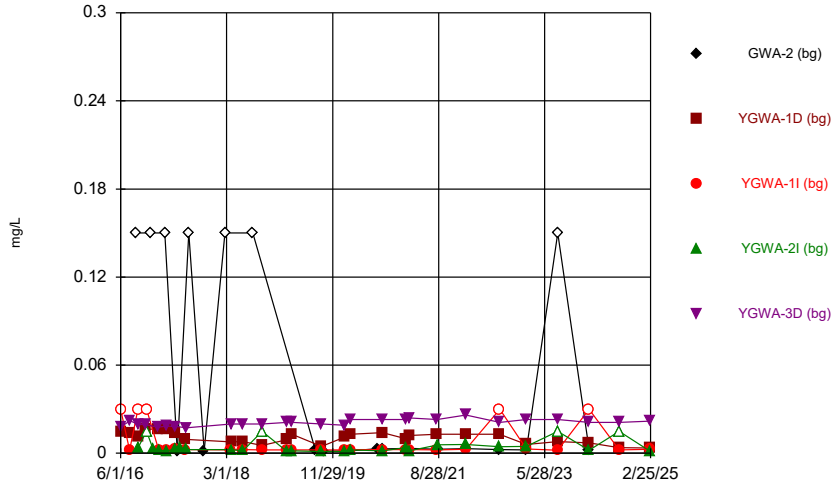
Time Series



Constituent: Lead Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

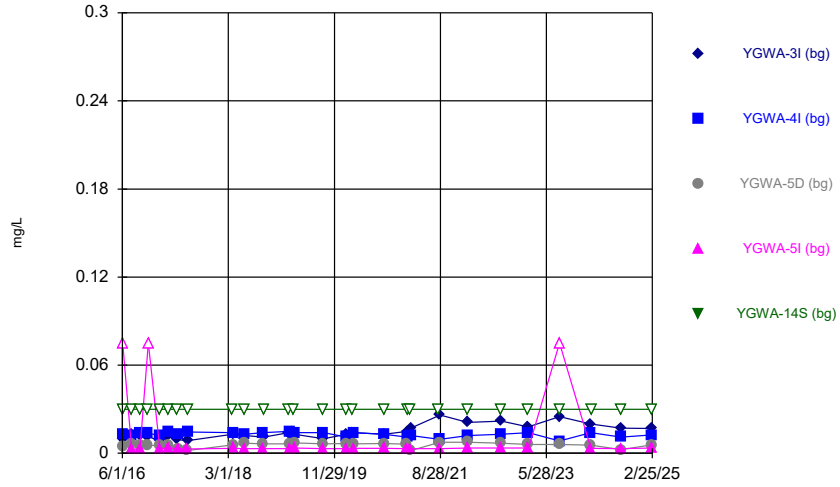
Time Series



Constituent: Lithium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

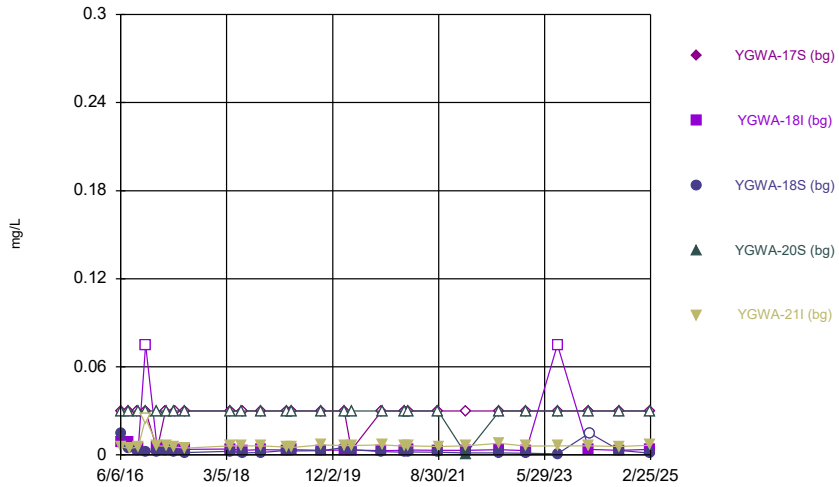
Time Series



Constituent: Lithium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

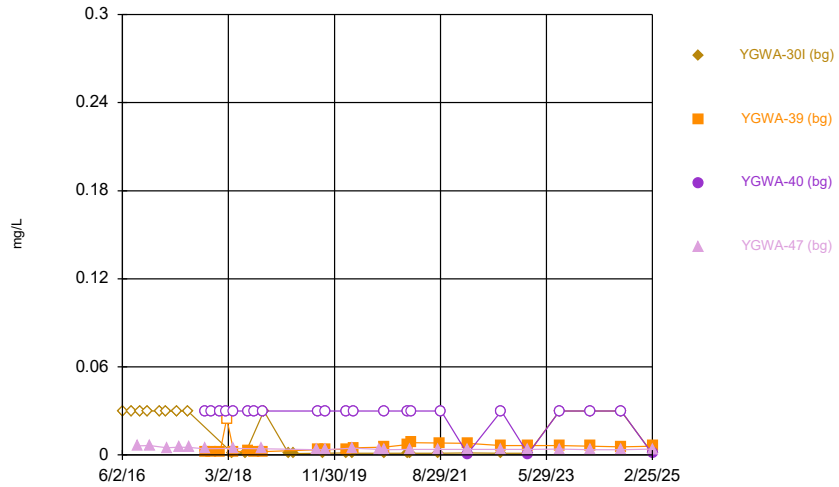
Time Series



Constituent: Lithium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

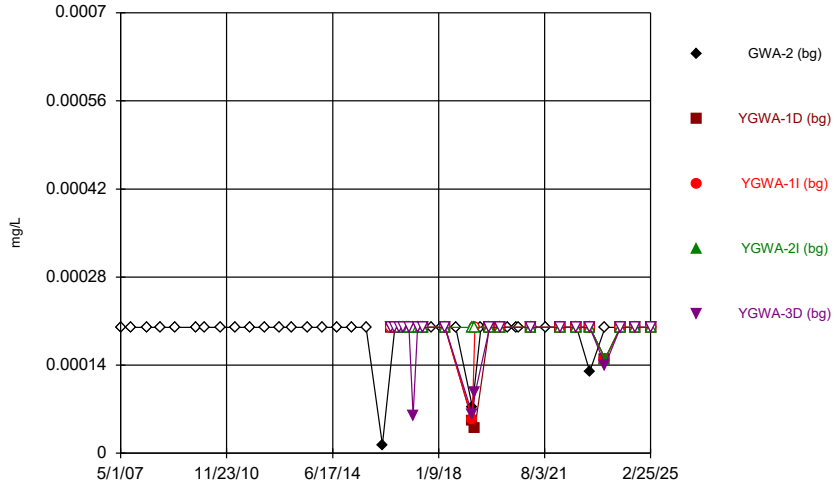
Time Series



Constituent: Lithium Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

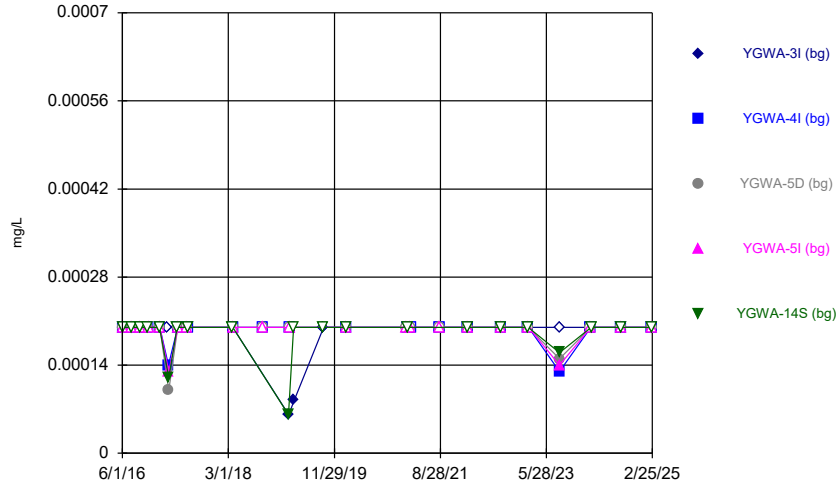
Time Series



Constituent: Mercury Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

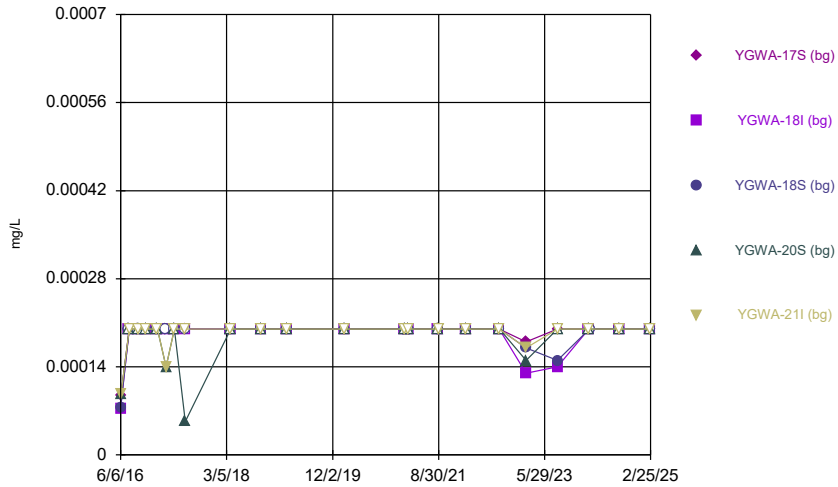
Time Series



Constituent: Mercury Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

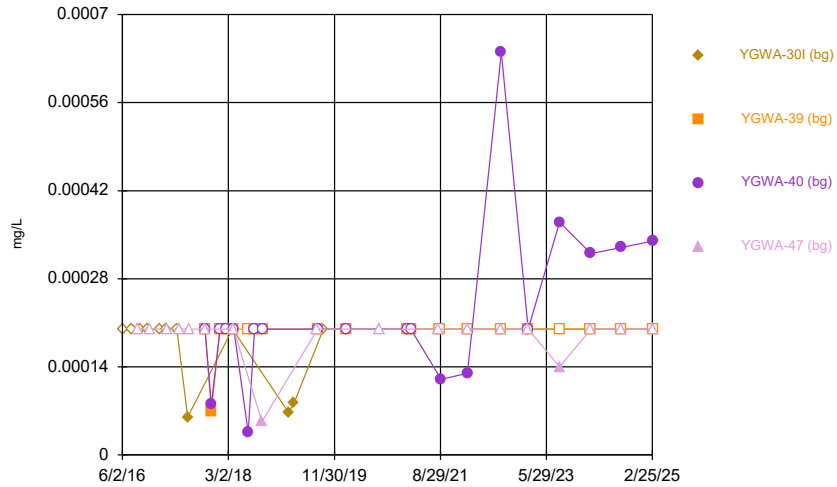
Time Series



Constituent: Mercury Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

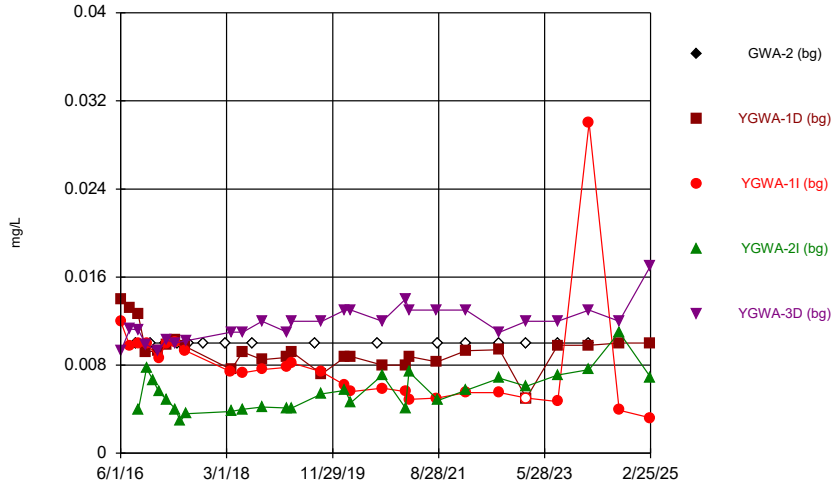
Time Series



Constituent: Mercury Analysis Run 5/20/2025 11:38 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

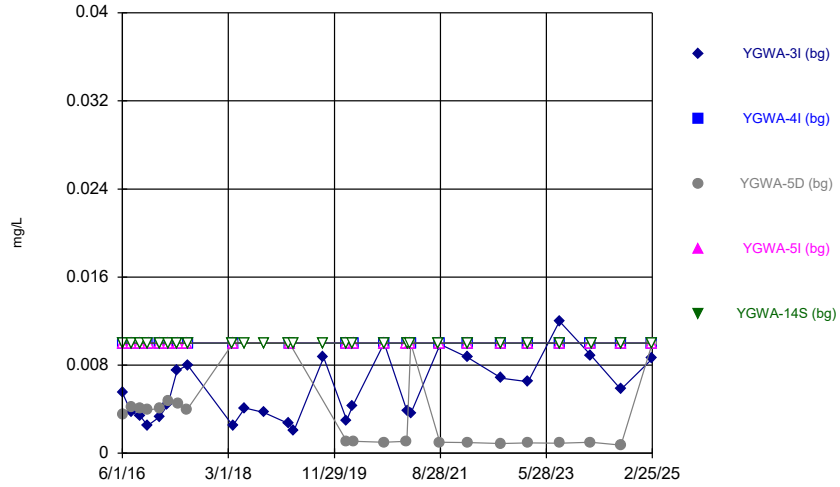
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

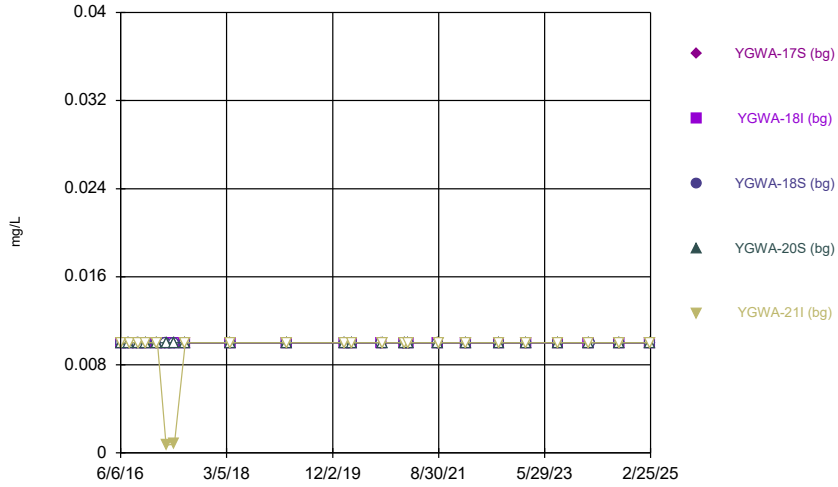
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

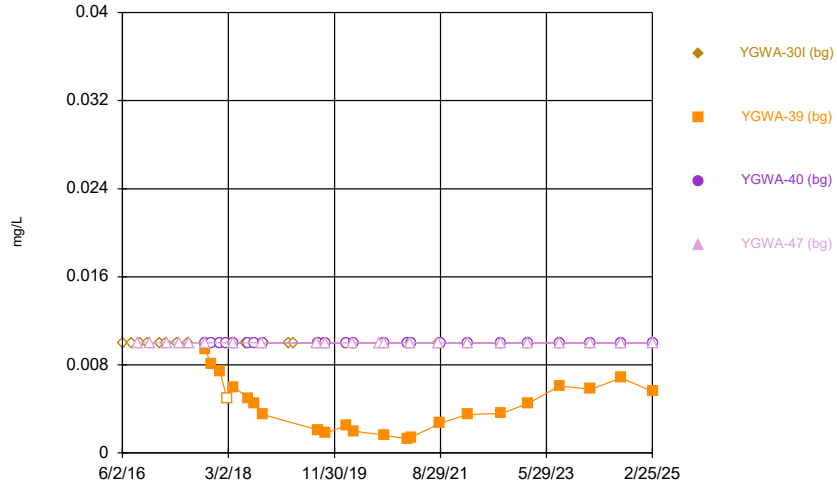
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

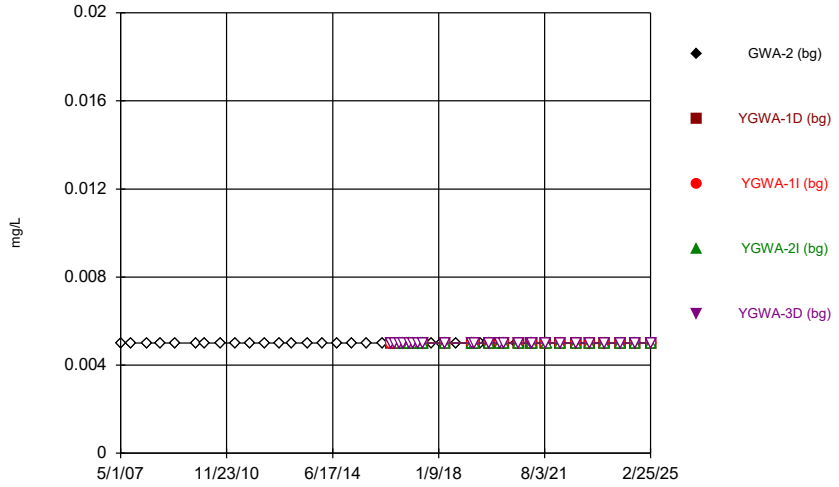
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

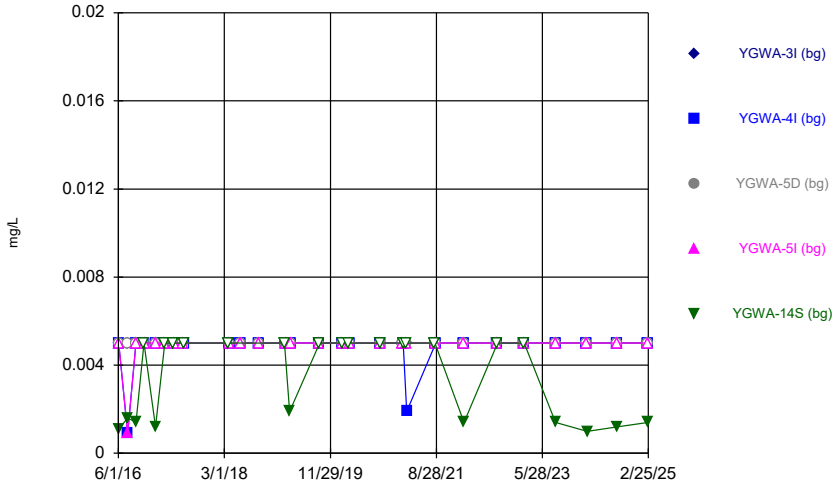
Time Series



Constituent: Selenium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

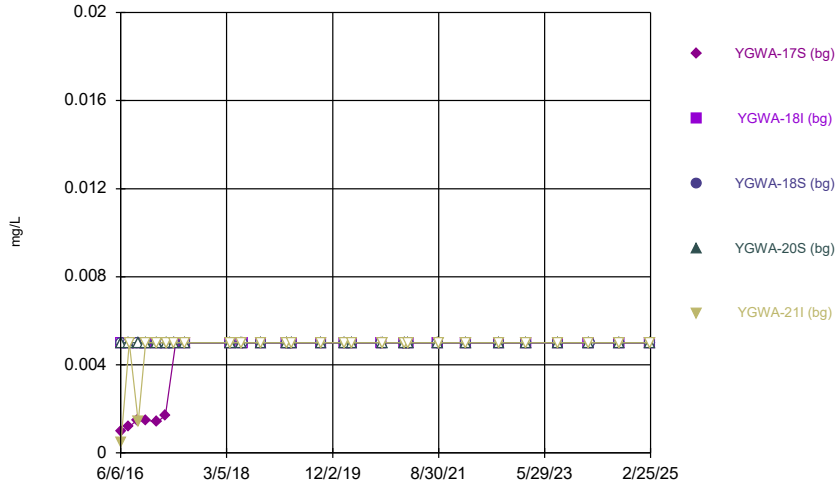
Time Series



Constituent: Selenium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

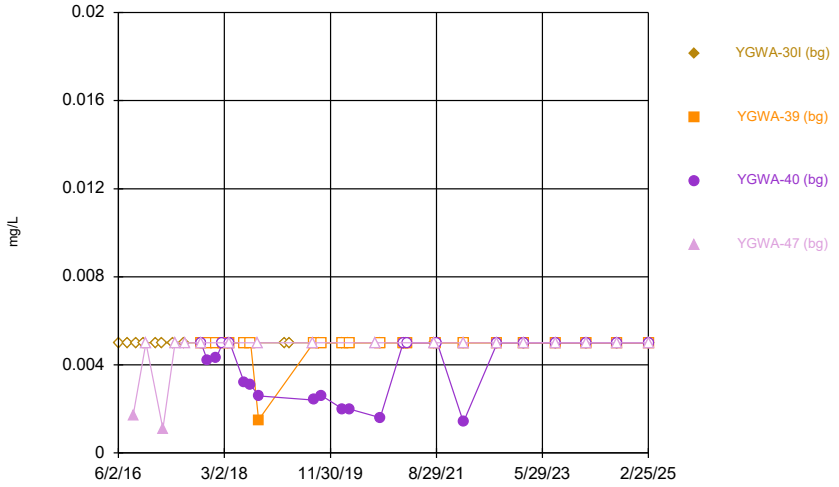
Time Series



Constituent: Selenium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

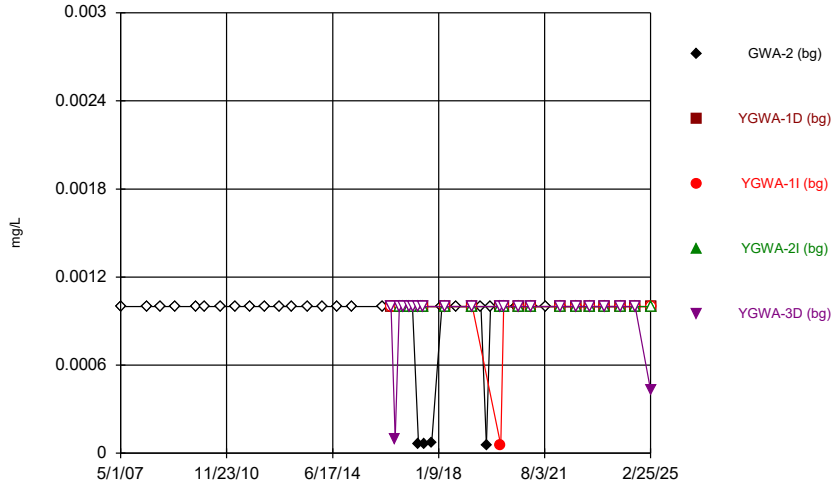
Time Series



Constituent: Selenium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

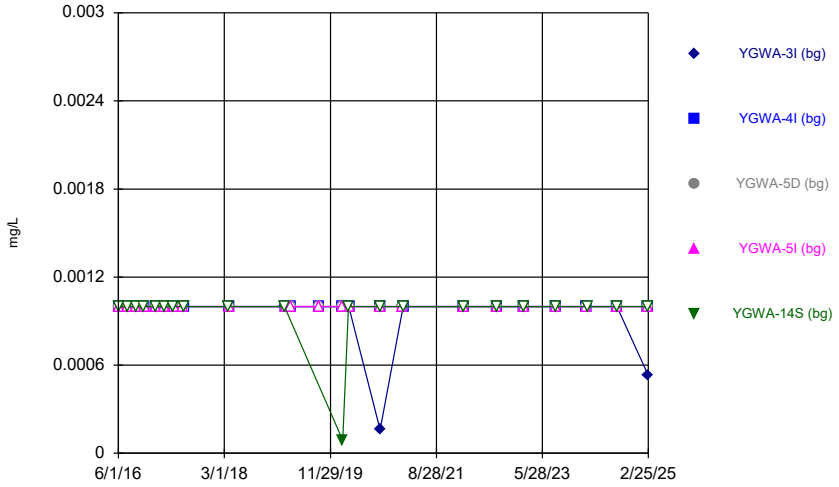
Time Series



Constituent: Thallium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

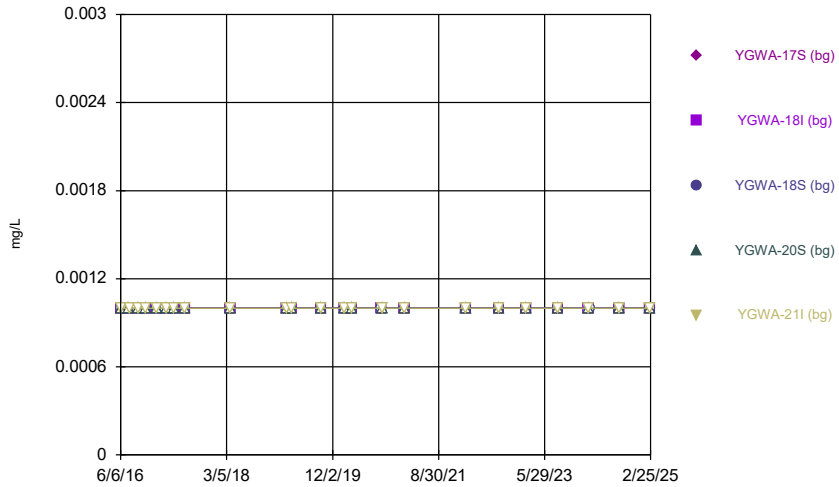
Time Series



Constituent: Thallium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

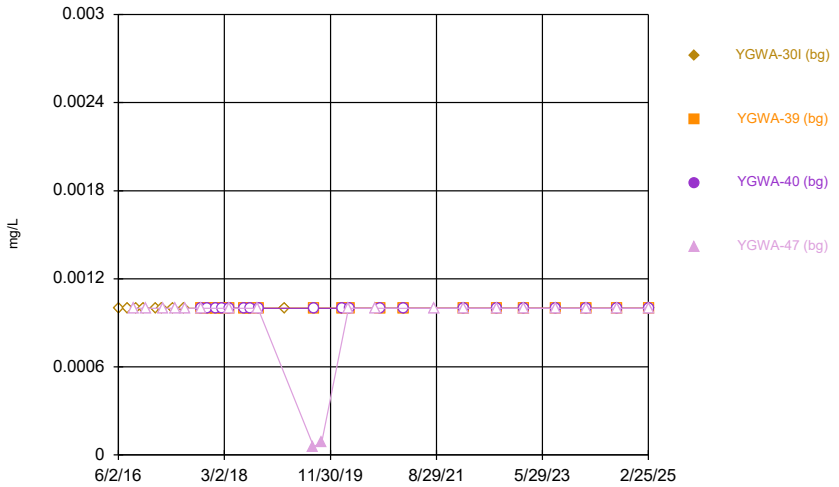
Time Series



Constituent: Thallium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

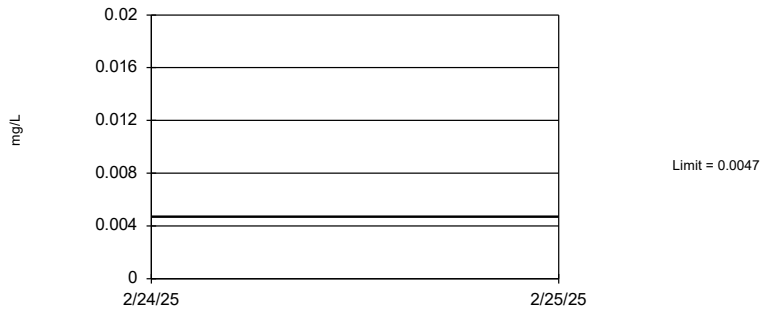


Constituent: Thallium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



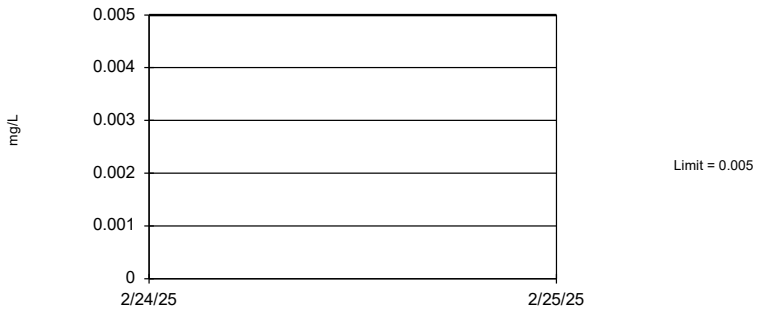
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 467 background values. 87.58% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Antimony Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



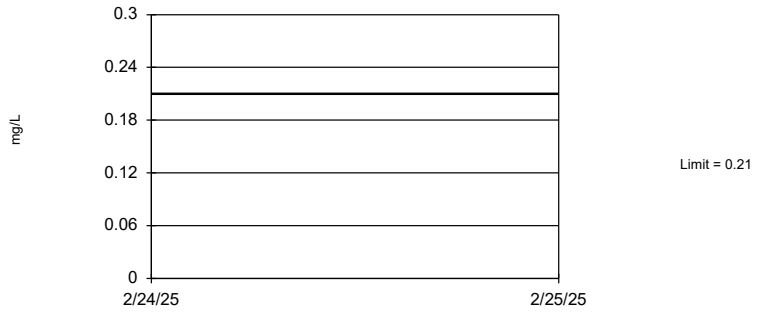
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 515 background values. 74.56% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



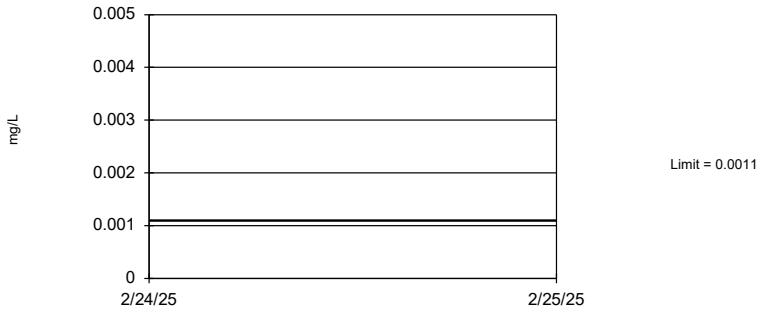
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 515 background values. 2.136% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



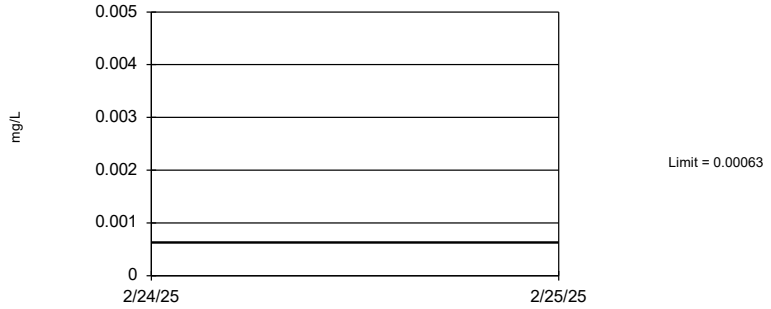
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 499 background values. 80.36% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



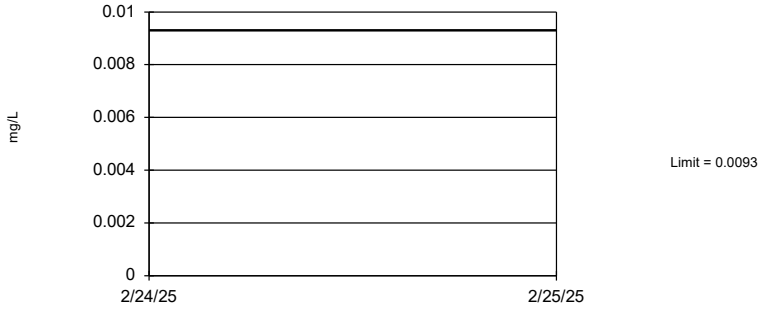
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 499 background values. 94.79% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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 467 background values. 80.51% 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 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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 508 background values. 69.49% 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 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

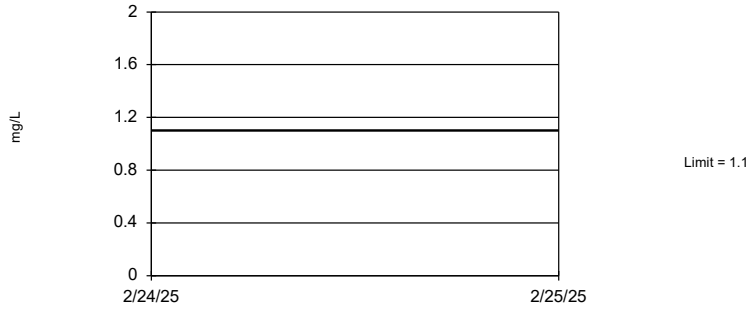
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 493 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



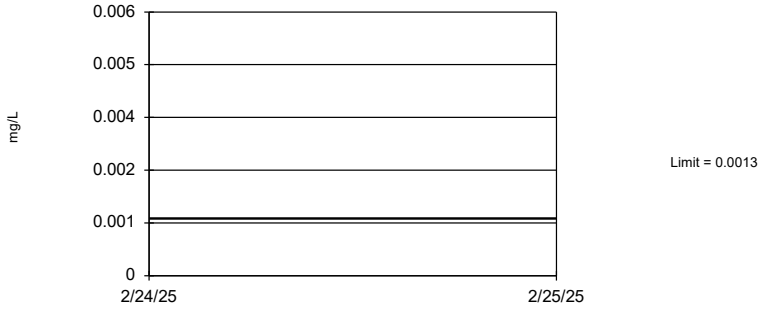
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 518 background values. 54.25% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 5/20/2025 11:39 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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 469 background values. 87.85% 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 5/20/2025 11:40 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

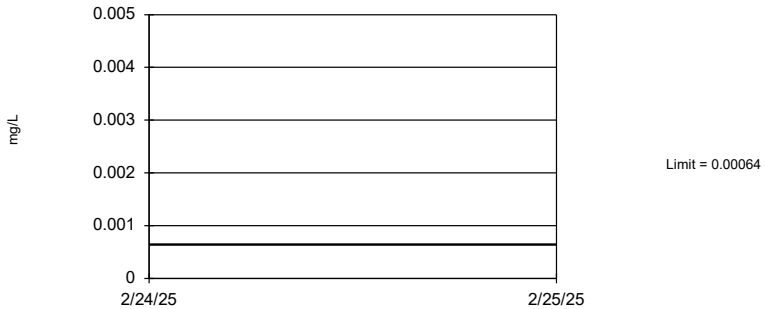
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 493 background values. 27.18% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 5/20/2025 11:40 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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 423 background values. 87.23% 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: Mercury Analysis Run 5/20/2025 11:40 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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 457 background values. 61.49% 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 5/20/2025 11:40 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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 497 background values. 92.96% 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 5/20/2025 11:40 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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 431 background values. 97.22% 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 5/20/2025 11:40 AM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-1

FIGURE G.

YATES ASH POND 1 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		1.1	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Appendix IV Confidence Intervals - All Results (No Significant)

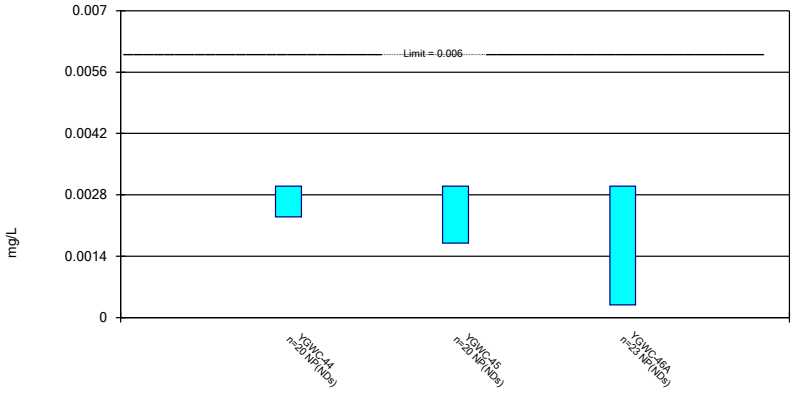
Plant Yates Client: Southern Company Data: Yates AP-1 Printed 5/20/2025, 11:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-44	0.003	0.0023	0.006	No	20	0.002965	0.0001565	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-45	0.003	0.0017	0.006	No	20	0.002935	0.0002907	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-46A	0.003	0.00029	0.006	No	23	0.002882	0.0005651	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-44	0.005	0.0041	0.01	No	22	0.003956	0.00181	68.18	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-45	0.005	0.0028	0.01	No	22	0.004114	0.001723	77.27	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-46A	0.005	0.001	0.01	No	25	0.00278	0.001895	40	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-52	0.005	0.0044	0.01	No	13	0.004954	0.0001664	92.31	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-44	0.1063	0.08614	2	No	22	0.09623	0.0188	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-45	0.06605	0.05473	2	No	22	0.06039	0.01054	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-46A	0.04623	0.04106	2	No	14	0.04364	0.00365	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-52	0.01965	0.01758	2	No	13	0.01862	0.001387	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-46A	0.0005	0.00012	0.005	No	22	0.0004473	0.0001359	86.36	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-44	0.005	0.0021	0.1	No	20	0.004855	0.0006485	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-45	0.0061	0.0006	0.1	No	20	0.004614	0.001398	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-52	0.005	0.00086	0.1	No	13	0.003525	0.001967	61.54	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-44	0.003385	0.00154	0.035	No	22	0.00278	0.002479	4.545	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	YGWC-45	0.0009	0.00055	0.035	No	22	0.0008682	0.0005493	9.091	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-46A	0.002241	0.0008845	0.035	No	14	0.001629	0.001105	7.143	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-52	0.00189	0.0009208	0.035	No	13	0.001405	0.0006516	7.692	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-44	0.8585	0.322	6.92	No	22	0.6648	0.5718	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-45	1.433	0.9897	6.92	No	22	1.212	0.4132	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-46A	1.865	1.138	6.92	No	26	1.501	0.7453	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-52	0.9455	0.4254	6.92	No	13	0.6855	0.3498	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-44	0.1	0.07	4	No	23	0.09335	0.01828	78.26	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-45	0.22	0.075	4	No	23	0.1776	0.1531	17.39	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-46A	0.17	0.1	4	No	26	0.1501	0.0947	19.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-52	0.1	0.059	4	No	13	0.09046	0.01822	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-45	0.001	0.0001	0.015	No	20	0.000955	0.0002012	95	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-46A	0.001	0.000044	0.015	No	23	0.0009584	0.0001993	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-52	0.001	0.000064	0.015	No	13	0.0007156	0.0004441	69.23	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-44	0.01346	0.01246	0.04	No	22	0.01296	0.0009328	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-45	0.01363	0.01196	0.04	No	22	0.01283	0.001605	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	YGWC-46A	0.01421	0.01156	0.04	No	14	0.01291	0.00194	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	YGWC-52	0.004373	0.003679	0.04	No	13	0.004026	0.0004664	0	None	No	0.01	Param.
Mercury (mg/L)	YGWC-44	0.0002	0.00006	0.002	No	18	0.0001922	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-45	0.0002	0.000071	0.002	No	18	0.0001928	0.00003041	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-46A	0.0002	0.00007	0.002	No	20	0.0001935	0.00002907	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-44	0.01	0.0005	0.1	No	22	0.009568	0.002025	95.45	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-45	0.0018	0.0011	0.1	No	22	0.002898	0.003442	18.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-46A	0.002543	0.001665	0.1	No	25	0.00352	0.002984	16	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	YGWC-52	0.01	0.00083	0.1	No	13	0.009295	0.002543	92.31	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-44	0.001	0.00008	0.002	No	20	0.000954	0.0002057	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-46A	0.001	0.000073	0.002	No	22	0.0009579	0.0001976	95.45	None	No	0.01	NP (NDs)

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

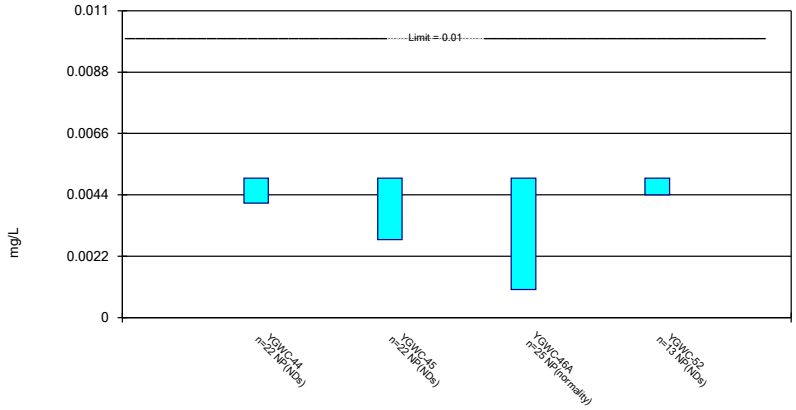


Constituent: Antimony Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

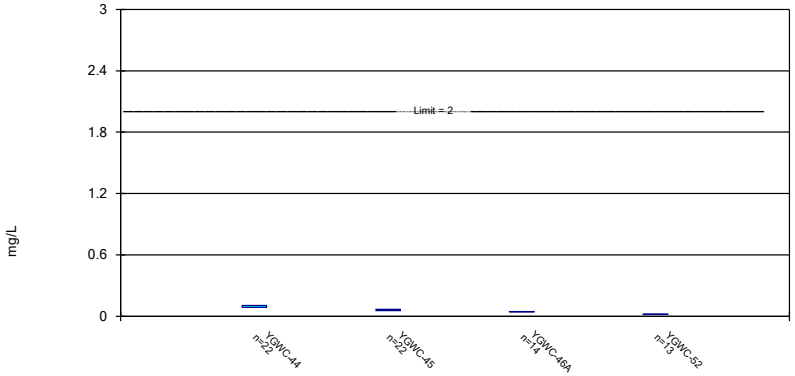


Constituent: Arsenic Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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.

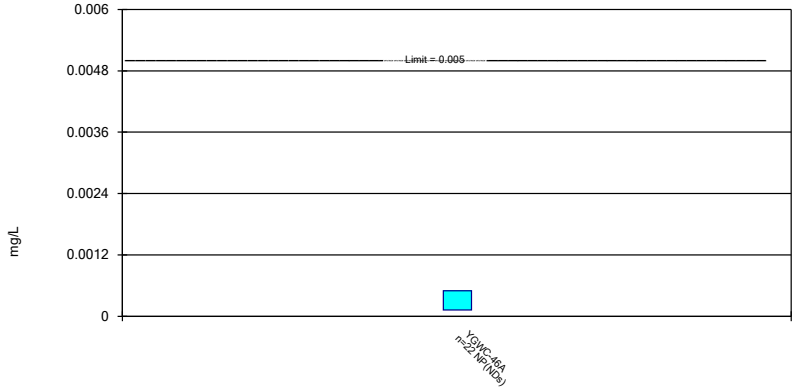


Constituent: Barium Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

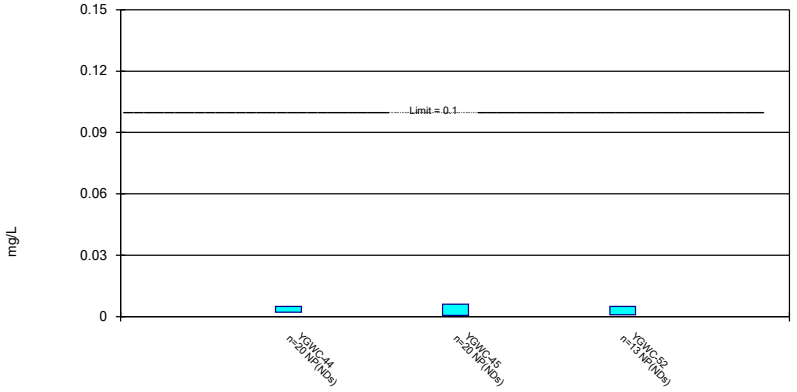


Constituent: Cadmium Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

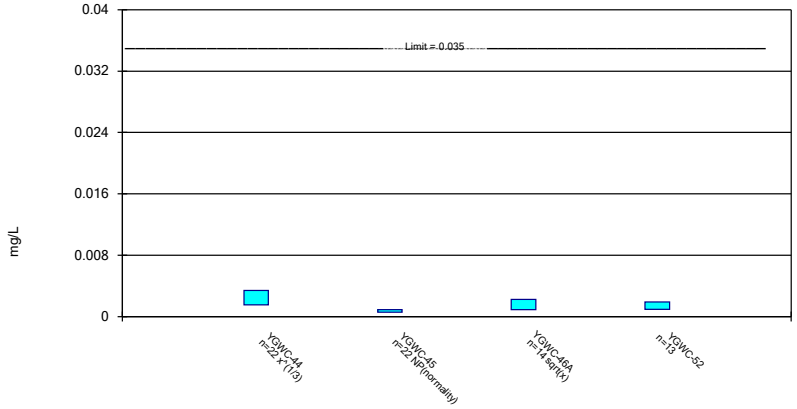


Constituent: Chromium Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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.

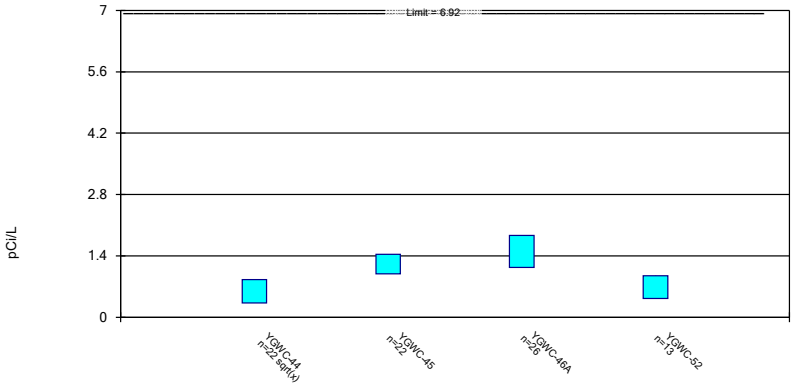


Constituent: Cobalt Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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.

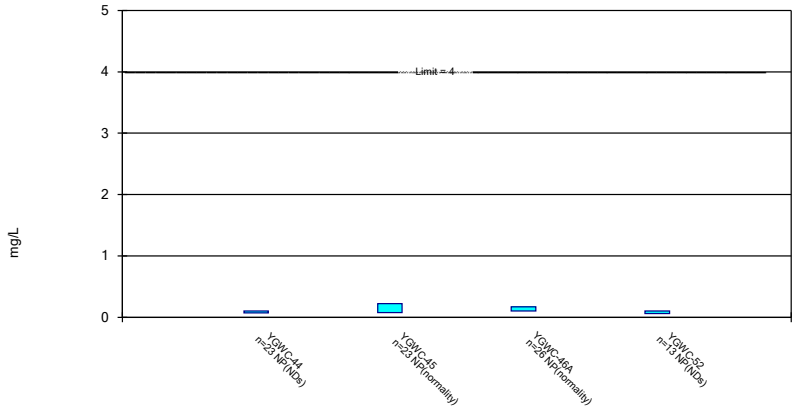


Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

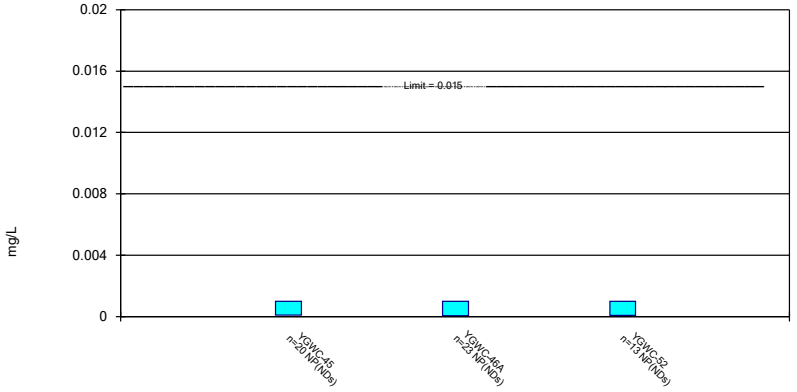


Constituent: Fluoride Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

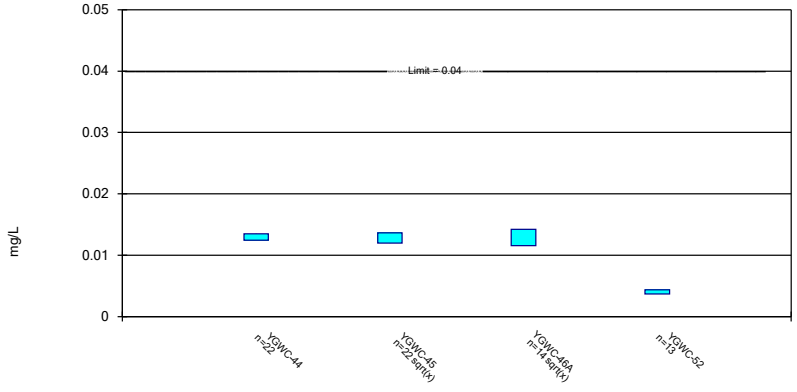


Constituent: Lead Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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.

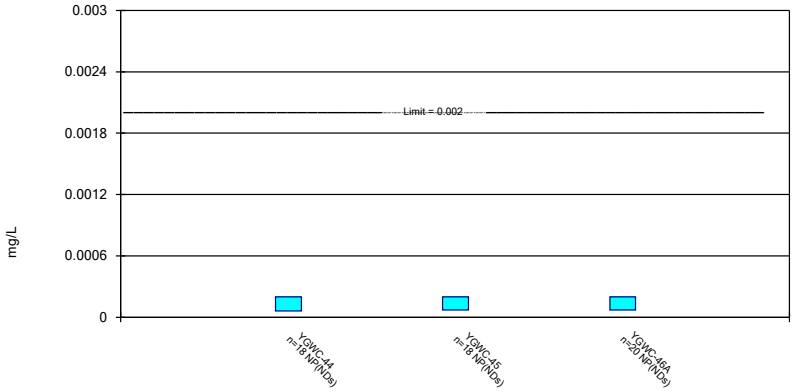


Constituent: Lithium Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

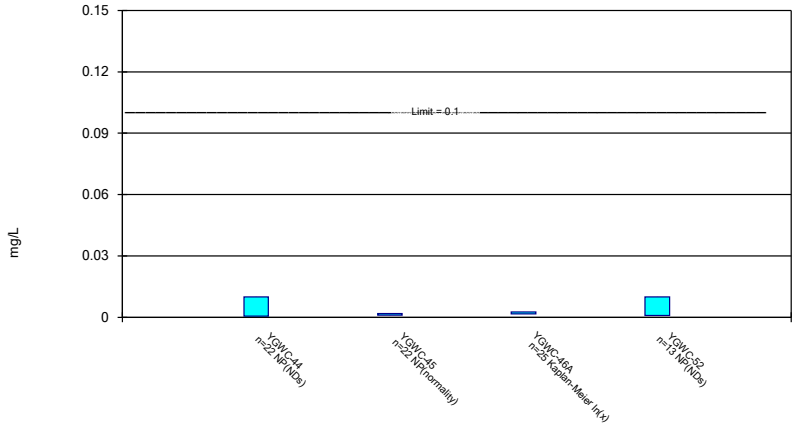


Constituent: Mercury Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 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.

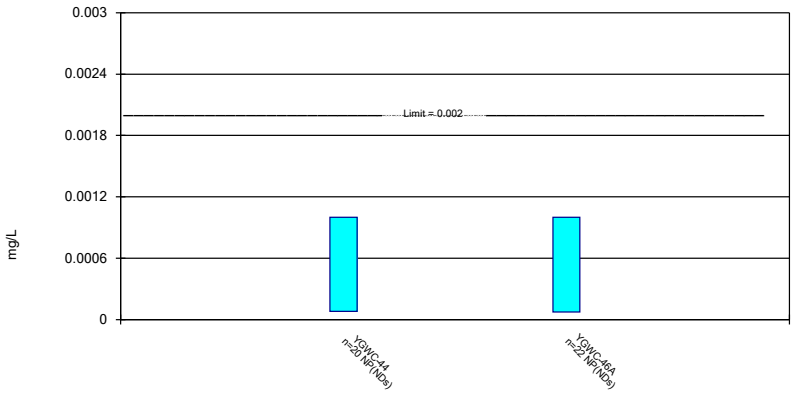


Constituent: Molybdenum Analysis Run 5/20/2025 11:56 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/20/2025 11:57 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 11:58 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-45	YGWC-46A
8/31/2016	<0.003	<0.003	
9/1/2016			<0.003
11/14/2016		<0.003	
11/15/2016	<0.003		
11/16/2016			<0.003
2/27/2017		<0.003	<0.003
2/28/2017	<0.003		
5/8/2017	<0.003		<0.003
5/9/2017		<0.003	
7/13/2017	<0.003	<0.003	<0.003
10/10/2017	<0.003	<0.003	
10/11/2017			<0.003
4/3/2018		<0.003	
4/4/2018	<0.003		<0.003
9/19/2018	<0.003	<0.003	<0.003
8/20/2019	<0.003	<0.003	
8/21/2019			<0.003
7/6/2020			<0.003
8/27/2020	<0.003		
8/28/2020		0.0017 (J)	0.00029 (J)
9/22/2020	<0.003		
9/23/2020		<0.003	<0.003
10/7/2020			<0.003
11/12/2020			<0.003
3/1/2021	<0.003	<0.003	
3/2/2021			<0.003
8/19/2021	<0.003	<0.003	
8/27/2021			<0.003
2/9/2022	<0.003	<0.003	<0.003
8/31/2022	<0.003	<0.003	<0.003
2/8/2023	<0.003		
2/9/2023		<0.003	
2/10/2023			<0.003
8/15/2023	0.0023 (J)	<0.003	<0.003
2/21/2024	<0.003	<0.003	<0.003
8/21/2024	<0.003	<0.003	<0.003
2/26/2025	<0.003	<0.003	<0.003
Mean	0.002965	0.002935	0.002882
Std. Dev.	0.0001565	0.0002907	0.0005651
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.0023	0.0017	0.00029

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 11:58 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.005	<0.005		
9/1/2016			<0.005	
11/14/2016		<0.005		
11/15/2016	<0.005			
11/16/2016			<0.005	
2/27/2017		<0.005	<0.005	
2/28/2017	0.0005 (J)			
5/8/2017	0.0006 (J)		0.0007 (J)	
5/9/2017		<0.005		
7/13/2017	<0.005	<0.005	0.0011 (J)	
10/10/2017	0.0007 (J)	0.0006 (J)		
10/11/2017			0.0011 (J)	
4/3/2018		0.00061 (J)		
4/4/2018	<0.005		0.00087 (J)	
9/19/2018	0.00086 (J)	0.00072 (J)	0.0012 (J)	
8/20/2019	0.00097 (J)	0.00078 (J)		
8/21/2019			0.00074 (J)	
10/8/2019	<0.005			
10/9/2019		<0.005	<0.005	
3/17/2020	<0.005	<0.005	<0.005	
7/6/2020			0.00079 (J)	
8/27/2020	<0.005			<0.005
8/28/2020		<0.005	0.0015 (J)	
9/22/2020	<0.005			<0.005
9/23/2020		<0.005	0.00091 (J)	
10/7/2020			0.001 (J)	<0.005
11/12/2020			0.0014 (J)	<0.005
3/1/2021	<0.005	<0.005		<0.005
3/2/2021			0.0016 (J)	
8/19/2021	<0.005	<0.005		
8/20/2021				<0.005
8/27/2021			0.0022 (J)	
2/9/2022	<0.005	<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005	<0.005
2/8/2023	<0.005			
2/9/2023		<0.005		
2/10/2023			<0.005	<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005
2/21/2024	0.0041 (J)	0.0028 (J)	0.0024 (J)	0.0044 (J)
8/21/2024	0.0043 (J)	<0.005	0.002 (J)	
8/22/2024				<0.005
2/26/2025	<0.005	<0.005	<0.005	<0.005
Mean	0.003956	0.004114	0.00278	0.004954
Std. Dev.	0.00181	0.001723	0.001895	0.0001664
Upper Lim.	0.005	0.005	0.005	0.005
Lower Lim.	0.0041	0.0028	0.001	0.0044

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/20/2025 11:58 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.126	0.0754		
9/1/2016			0.0414	
11/14/2016		0.0701		
11/15/2016	0.115			
11/16/2016			0.0365	
2/27/2017		0.0834	0.0326	
2/28/2017	0.121			
5/8/2017	0.125		0.0332	
5/9/2017		0.0779		
7/13/2017	0.106	0.0719	0.0365	
10/10/2017	0.112	0.0708		
10/11/2017			0.0288	
4/3/2018		0.068		
4/4/2018	0.12		0.025	
9/19/2018	0.11	0.064	0.03	
8/20/2019	0.1	0.057		
8/21/2019			0.023	
10/8/2019	0.098			
10/9/2019		0.058	0.024	
3/17/2020	0.099	0.061	0.022	
7/6/2020			0.048	
8/27/2020	0.086			0.021
8/28/2020		0.053	0.05	
9/22/2020	0.096			0.021
9/23/2020		0.052	0.045	
10/7/2020			0.042	0.019
11/12/2020			0.042	0.019
3/1/2021	0.087	0.055		0.019
3/2/2021			0.044	
8/19/2021	0.089	0.055		
8/20/2021				0.019
8/27/2021			0.043	
2/9/2022	0.083	0.053	0.042	0.018
8/31/2022	0.073	0.052	0.036	0.017
2/8/2023	0.081			
2/9/2023		0.049		
2/10/2023			0.041	0.016
8/15/2023	0.084	0.049	0.04	0.019
2/21/2024	0.069	0.048	0.044	0.018
8/21/2024	0.069	0.054	0.048	
8/22/2024				0.018
2/26/2025	0.068	0.051	0.046	0.018
Mean	0.09623	0.06039	0.04364	0.01862
Std. Dev.	0.0188	0.01054	0.00365	0.001387
Upper Lim.	0.1063	0.06605	0.04623	0.01965
Lower Lim.	0.08614	0.05473	0.04106	0.01758

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 11:58 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-46A
9/1/2016	<0.0005
11/16/2016	<0.0005
2/27/2017	<0.0005
5/8/2017	0.0001 (J)
7/13/2017	<0.0005
10/11/2017	<0.0005
4/4/2018	<0.0005
9/19/2018	<0.0005
8/21/2019	0.00012 (J)
10/9/2019	<0.0005
3/17/2020	0.00012 (J)
7/6/2020	<0.0005
8/28/2020	<0.0005
11/12/2020	<0.0005
8/27/2021	<0.0005
2/9/2022	<0.0005
8/31/2022	<0.0005
2/10/2023	<0.0005
8/15/2023	<0.0005
2/21/2024	<0.0005
8/21/2024	<0.0005
2/26/2025	<0.0005
Mean	0.0004473
Std. Dev.	0.0001359
Upper Lim.	0.0005
Lower Lim.	0.00012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 11:58 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-45	YGWC-52
8/31/2016	<0.005	<0.005	
11/14/2016		0.0061 (J)	
11/15/2016	<0.005		
2/27/2017		<0.005	
2/28/2017	<0.005		
5/8/2017	<0.005		
5/9/2017		<0.005	
7/13/2017	<0.005	0.0006 (J)	
10/10/2017	<0.005	<0.005	
4/3/2018		<0.005	
4/4/2018	<0.005		
9/19/2018	<0.005	<0.005	
8/20/2019	<0.005	<0.005	
8/27/2020	<0.005		<0.005
8/28/2020		<0.005	
9/22/2020	<0.005		0.00073 (J)
9/23/2020		0.00058 (J)	
10/7/2020			0.00086 (J)
11/12/2020			<0.005
3/1/2021	<0.005	<0.005	0.00094 (J)
8/19/2021	<0.005	<0.005	
8/20/2021			<0.005
2/9/2022	<0.005	<0.005	0.0012 (J)
8/31/2022	<0.005	<0.005	<0.005
2/8/2023	<0.005		
2/9/2023		<0.005	
2/10/2023			0.0021 (J)
8/15/2023	<0.005	<0.005	<0.005
2/21/2024	0.0021 (J)	<0.005	<0.005
8/21/2024	<0.005	<0.005	
8/22/2024			<0.005
2/26/2025	<0.005	<0.005	<0.005
Mean	0.004855	0.004614	0.003525
Std. Dev.	0.0006485	0.001398	0.001967
Upper Lim.	0.005	0.0061	0.005
Lower Lim.	0.0021	0.0006	0.00086

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 11:58 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.0119	0.0009 (J)		
9/1/2016			0.0171	
11/14/2016		0.0009 (J)		
11/15/2016	0.0033 (J)			
11/16/2016			0.0145	
2/27/2017		0.001 (J)	0.0161	
2/28/2017	0.0017 (J)			
5/8/2017	0.0018 (J)		0.0367	
5/9/2017		0.0008 (J)		
7/13/2017	0.0022 (J)	0.0009 (J)	0.0265	
10/10/2017	0.0017 (J)	0.0008 (J)		
10/11/2017			0.0556	
4/3/2018		<0.005		
4/4/2018	<0.01		0.025	
9/19/2018	0.0025 (J)	0.00081 (J)	0.042	
8/20/2019	0.002 (J)	0.00071 (J)		
8/21/2019			0.027	
10/8/2019	0.0017 (J)			
10/9/2019		0.0007 (J)	0.024	
3/17/2020	0.004 (J)	0.00081 (J)	0.022	
7/6/2020			0.0041 (J)	
8/27/2020	0.003 (J)			0.0022 (J)
8/28/2020		0.00055 (J)	0.0038 (J)	
9/22/2020	0.0065			0.0019 (J)
9/23/2020		0.00053 (J)	0.0015 (J)	
10/7/2020			0.0014 (J)	0.0019 (J)
11/12/2020			0.001 (J)	0.0015 (J)
3/1/2021	0.0033 (J)	0.00062 (J)		0.0013 (J)
3/2/2021			0.00096 (J)	
8/19/2021	0.0014 (J)	0.00048 (J)		
8/20/2021				0.0013 (J)
8/27/2021			0.00056 (J)	
2/9/2022	0.0027 (J)	0.00051 (J)	0.0006 (J)	0.0015 (J)
8/31/2022	0.00099 (J)	0.00069 (J)	0.0017 (J)	0.00096 (J)
2/8/2023	0.0014 (J)			
2/9/2023		0.00077 (J)		
2/10/2023			0.0016 (J)	0.00055 (J)
8/15/2023	0.00084 (J)	0.00053 (J)	0.0012 (J)	0.0017 (J)
2/21/2024	0.00093 (J)	0.00056 (J)	0.0011 (J)	0.00042 (J)
8/21/2024	0.001 (J)	0.00053 (J)	0.00078 (J)	
8/22/2024				0.00054 (J)
2/26/2025	0.0013 (J)	<0.005	<0.005	<0.005
Mean	0.00278	0.0008682	0.001629	0.001405
Std. Dev.	0.002479	0.0005493	0.001105	0.0006516
Upper Lim.	0.003385	0.0009	0.002241	0.00189
Lower Lim.	0.00154	0.00055	0.0008845	0.0009208

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 11:58 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	2.15	1.65		
9/1/2016			2.28	
11/14/2016		0.981		
11/15/2016	0.676			
11/16/2016			0.639	
11/28/2016			0.996	
2/27/2017		0.528	0.617	
2/28/2017	0.241			
5/8/2017	0.508		0.949	
5/9/2017		1.4		
7/13/2017	0.77 (U)	0.611 (U)	1.41	
10/10/2017	1.43	1.47		
10/11/2017			0.856 (U)	
4/3/2018		1.53		
4/4/2018	0.325		0.974	
9/19/2018	0.386 (U)	0.839 (U)	1.15 (U)	
8/20/2019	1.71	2.23		
8/21/2019			1.31	
10/8/2019	0.769 (U)			
10/9/2019		1.61	0.892 (U)	
3/17/2020	1.37	1.44	1.74	
7/6/2020			2.27	
8/27/2020	0.0859 (U)			0.852 (U)
8/28/2020		0.983 (U)	2.34	
9/22/2020	0.327 (U)			0.268 (U)
9/23/2020		0.746 (U)	0.575 (U)	
10/7/2020			1.81	0.819 (U)
11/12/2020			0.106 (U)	1.41 (U)
3/1/2021	0.0694 (U)	1.28		0.846 (U)
3/2/2021			1.64	
8/19/2021	0.261 (U)	1.38		
8/20/2021				0.496 (U)
8/27/2021			1.83	
2/9/2022	0.332 (U)	1.11	1.74	0.926
8/31/2022	0.145 (U)	0.598 (U)	1.51	0.322 (U)
2/8/2023	0.193 (U)			
2/9/2023		1.29		
2/10/2023			1.92	0.786 (U)
8/15/2023	1.15	1.34	1.92	0.319 (U)
2/21/2024	0.345 (U)	0.857 (U)	2	0.164 (U)
8/21/2024	0.411 (U)	1.29	1.87	
8/22/2024				0.862 (U)
2/26/2025	0.971 (U)	1.49	3.69	0.841 (U)
Mean	0.6648	1.212	1.501	0.6855
Std. Dev.	0.5718	0.4132	0.7453	0.3498
Upper Lim.	0.8585	1.433	1.865	0.9455
Lower Lim.	0.322	0.9897	1.138	0.4254

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 11:58 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.1	0.11 (J)		
9/1/2016			0.08 (J)	
11/14/2016		0.71		
11/15/2016	0.12 (J)			
11/16/2016			0.04 (J)	
2/27/2017		0.22 (J)	0.05 (J)	
2/28/2017	0.07 (J)			
5/8/2017	0.04 (J)		0.004 (J)	
5/9/2017		0.2 (J)		
7/13/2017	<0.1	0.11 (J)	0.35	
10/10/2017	<0.1	0.39		
10/11/2017			<0.3	
4/3/2018		<0.3		
4/4/2018	<0.1		<0.3	
9/19/2018	<0.1	<0.3	<0.3	
3/27/2019	<0.1	0.18 (J)	0.12 (J)	
8/20/2019	<0.1	<0.3		
8/21/2019			<0.3	
10/8/2019	<0.1 (D)			
10/9/2019		<0.3 (D)	0.12 (J)	
3/17/2020	<0.1	0.076 (J)	<0.3	
7/6/2020			0.12	
8/27/2020	<0.1			<0.1
8/28/2020		0.07 (J)	0.12	
9/22/2020	<0.1			<0.1
9/23/2020		0.082 (J)	0.12	
10/7/2020			0.13	<0.1
11/12/2020			0.084 (J)	<0.1
3/1/2021	<0.1	0.073 (J)		<0.1
3/2/2021			0.12	
8/19/2021	<0.1	0.075 (J)		
8/20/2021				<0.1
8/27/2021			0.13	
2/9/2022	<0.1	0.063 (J)	0.12	<0.1
8/31/2022	0.055 (J)	0.1	0.12	0.059 (J)
2/8/2023	0.062 (J)			
2/9/2023		0.11		
2/10/2023			0.17	0.063 (J)
8/15/2023	<0.1	0.07 (J)	0.12	<0.1
2/21/2024	<0.1	0.099 (J)	0.11	0.054 (J)
8/21/2024	<0.1	0.077 (J)	0.1	
8/22/2024				<0.1
2/26/2025	<0.1	0.069 (J)	0.075 (J)	<0.1
Mean	0.09335	0.1776	0.1501	0.09046
Std. Dev.	0.01828	0.1531	0.0947	0.01822
Upper Lim.	0.1	0.22	0.17	0.1
Lower Lim.	0.07	0.075	0.1	0.059

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/20/2025 11:58 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.001		
9/1/2016		<0.001	
11/14/2016	<0.001		
11/16/2016		<0.001	
2/27/2017	<0.001	<0.001	
5/8/2017		<0.001	
5/9/2017	0.0001 (J)		
7/13/2017	<0.001	<0.001	
10/10/2017	<0.001		
10/11/2017		<0.001	
4/3/2018	<0.001		
4/4/2018		<0.001	
9/19/2018	<0.001	<0.001	
8/20/2019	<0.001		
8/21/2019		<0.001	
7/6/2020		<0.001	
8/27/2020			9.2E-05 (J)
8/28/2020	<0.001	<0.001	
9/22/2020			6E-05 (J)
9/23/2020	<0.001	<0.001	
10/7/2020		<0.001	<0.001
11/12/2020		4.4E-05 (J)	6.4E-05 (J)
3/1/2021	<0.001		8.7E-05 (J)
3/2/2021		<0.001	
8/19/2021	<0.001		
8/20/2021			<0.001
8/27/2021		<0.001	
2/9/2022	<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001
2/9/2023	<0.001		
2/10/2023		<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001
2/21/2024	<0.001	<0.001	<0.001
8/21/2024	<0.001	<0.001	
8/22/2024			<0.001
2/26/2025	<0.001	<0.001	<0.001
Mean	0.000955	0.0009584	0.0007156
Std. Dev.	0.0002012	0.0001993	0.0004441
Upper Lim.	0.001	0.001	0.001
Lower Lim.	0.0001	4.4E-05	6.4E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 11:58 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.0115 (J)	0.0147 (J)		
9/1/2016			0.0077 (J)	
11/14/2016		0.0175 (J)		
11/15/2016	0.0148 (J)			
11/16/2016			0.0075 (J)	
2/27/2017		0.0135 (J)	0.0084 (J)	
2/28/2017	0.0124 (J)			
5/8/2017	0.0132 (J)		0.0087 (J)	
5/9/2017		0.0136 (J)		
7/13/2017	0.0124 (J)	0.0129 (J)	0.0104 (J)	
10/10/2017	0.0123 (J)	0.015 (J)		
10/11/2017			0.0099 (J)	
4/3/2018		0.014 (J)		
4/4/2018	0.014 (J)		0.012 (J)	
9/19/2018	0.013 (J)	0.012 (J)	0.011 (J)	
8/20/2019	0.013 (J)	0.012 (J)		
8/21/2019			0.0076 (J)	
10/8/2019	0.012 (J)			
10/9/2019		0.012 (J)	0.0078 (J)	
3/17/2020	0.013 (J)	0.014 (J)	0.0071 (J)	
7/6/2020			0.011 (J)	
8/27/2020	0.013 (J)			0.0048 (J)
8/28/2020		0.012 (J)	0.012 (J)	
9/22/2020	0.013 (J)			0.0046 (J)
9/23/2020		0.012 (J)	0.013 (J)	
10/7/2020			0.011 (J)	0.0041 (J)
11/12/2020			0.014 (J)	0.0044 (J)
3/1/2021	0.013 (J)	0.012 (J)		0.0043 (J)
3/2/2021			0.013 (J)	
8/19/2021	0.013 (J)	0.012 (J)		
8/20/2021				0.0043 (J)
8/27/2021			0.014 (J)	
2/9/2022	0.014 (J)	0.012 (J)	0.014 (J)	0.0042 (J)
8/31/2022	0.013 (J)	0.012 (J)	0.015 (J)	0.0037 (J)
2/8/2023	0.014 (J)			
2/9/2023		0.01 (J)		
2/10/2023			0.011 (J)	0.0033 (J)
8/15/2023	0.013 (J)	0.012 (J)	0.012 (J)	0.004 (J)
2/21/2024	0.012 (J)	0.012 (J)	0.012 (J)	0.0036 (J)
8/21/2024	0.011 (J)	0.011 (J)	0.011 (J)	
8/22/2024				0.0034 (J)
2/26/2025	0.0146 (J)	0.014 (J)	0.0178 (J)	0.00364 (J)
Mean	0.01296	0.01283	0.01291	0.004026
Std. Dev.	0.0009328	0.001605	0.00194	0.0004664
Upper Lim.	0.01346	0.01363	0.01421	0.004373
Lower Lim.	0.01246	0.01196	0.01156	0.003679

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 11:59 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-45	YGWC-46A
8/31/2016	<0.0002	<0.0002	
9/1/2016			<0.0002
11/14/2016		<0.0002	
11/15/2016	<0.0002		
11/16/2016			<0.0002
2/27/2017		<0.0002	<0.0002
2/28/2017	<0.0002		
5/8/2017	<0.0002		<0.0002
5/9/2017		<0.0002	
7/13/2017	<0.0002	<0.0002	<0.0002
10/10/2017	<0.0002	<0.0002	
10/11/2017			<0.0002
4/3/2018		<0.0002	
4/4/2018	<0.0002		<0.0002
9/19/2018	6E-05 (J)	7.1E-05 (J)	7E-05 (J)
8/20/2019	<0.0002	<0.0002	
8/21/2019			<0.0002
7/6/2020			<0.0002
8/27/2020	<0.0002		
8/28/2020		<0.0002	<0.0002
11/12/2020			<0.0002
8/19/2021	<0.0002	<0.0002	
8/27/2021			<0.0002
2/9/2022	<0.0002	<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002	<0.0002
2/8/2023	<0.0002		
2/9/2023		<0.0002	
2/10/2023			<0.0002
8/15/2023	<0.0002	<0.0002	<0.0002
2/21/2024	<0.0002	<0.0002	<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002
2/26/2025	<0.0002	<0.0002	<0.0002
Mean	0.0001922	0.0001928	0.0001935
Std. Dev.	3.3E-05	3.041E-05	2.907E-05
Upper Lim.	0.0002	0.0002	0.0002
Lower Lim.	6E-05	7.1E-05	7E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 11:59 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.01	0.0024 (J)		
9/1/2016			<0.01	
11/14/2016		<0.01		
11/15/2016	<0.01			
11/16/2016			<0.01	
2/27/2017		0.0018 (J)	<0.01	
2/28/2017	0.0005 (J)			
5/8/2017	<0.01		0.0008 (J)	
5/9/2017		0.0015 (J)		
7/13/2017	<0.01	0.0015 (J)	0.0015 (J)	
10/10/2017	<0.01	0.0015 (J)		
10/11/2017			0.002 (J)	
4/3/2018		<0.01		
4/4/2018	<0.01		0.0021 (J)	
9/19/2018	<0.01	<0.01	0.0039 (J)	
8/20/2019	<0.01	0.0011 (J)		
8/21/2019			0.0012 (J)	
10/8/2019	<0.01			
10/9/2019		0.0012 (J)	0.0013 (J)	
3/17/2020	<0.01	0.0016 (J)	0.0015 (J)	
7/6/2020			0.0026 (J)	
8/27/2020	<0.01			<0.01
8/28/2020		0.0013 (J)	0.003 (J)	
9/22/2020	<0.01			<0.01
9/23/2020		0.0011 (J)	0.0025 (J)	
10/7/2020			0.0024 (J)	<0.01
11/12/2020			0.0019 (J)	<0.01
3/1/2021	<0.01	0.0012 (J)		<0.01
3/2/2021			0.0023 (J)	
8/19/2021	<0.01	0.0012 (J)		
8/20/2021				<0.01
8/27/2021			0.0022 (J)	
2/9/2022	<0.01	0.0012 (J)	0.0021 (J)	<0.01
8/31/2022	<0.01	0.0011 (J)	0.0017 (J)	<0.01
2/8/2023	<0.01			
2/9/2023		0.00097 (J)		
2/10/2023			0.0029 (J)	0.00083 (J)
8/15/2023	<0.01	0.0011 (J)	0.0031 (J)	<0.01
2/21/2024	<0.01	0.00098 (J)	0.0032 (J)	<0.01
8/21/2024	<0.01	0.001 (J)	0.0038 (J)	
8/22/2024				<0.01
2/26/2025	<0.01	<0.01	<0.01	<0.01
Mean	0.009568	0.002898	0.00352	0.009295
Std. Dev.	0.002025	0.003442	0.002984	0.002543
Upper Lim.	0.01	0.0018	0.002543	0.01
Lower Lim.	0.0005	0.0011	0.001665	0.00083

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 11:59 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-1

	YGWC-44	YGWC-46A
8/31/2016	<0.001	
9/1/2016		<0.001
11/15/2016	<0.001	
11/16/2016		<0.001
2/27/2017		<0.001
2/28/2017	<0.001	
5/8/2017	<0.001	<0.001
7/13/2017	<0.001	<0.001
10/10/2017	<0.001	
10/11/2017		<0.001
4/4/2018	<0.001	<0.001
9/19/2018	<0.001	<0.001
8/20/2019	<0.001	
8/21/2019		<0.001
10/8/2019	<0.001	
10/9/2019		<0.001
3/17/2020	8E-05 (J)	<0.001
7/6/2020		7.3E-05 (J)
8/27/2020	<0.001	
8/28/2020		<0.001
11/12/2020		<0.001
8/19/2021	<0.001	
8/27/2021		<0.001
2/9/2022	<0.001	<0.001
8/31/2022	<0.001	<0.001
2/8/2023	<0.001	
2/10/2023		<0.001
8/15/2023	<0.001	<0.001
2/21/2024	<0.001	<0.001
8/21/2024	<0.001	<0.001
2/26/2025	<0.001	<0.001
Mean	0.000954	0.0009579
Std. Dev.	0.0002057	0.0001976
Upper Lim.	0.001	0.001
Lower Lim.	8E-05	7.3E-05

ND substitution: RL or RL/2 if <15% NDs.

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 1000
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com