



2024 Semiannual Groundwater Monitoring and Corrective Action Report

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

February 28, 2025



Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates – AP-1
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Summary

This summary of the 2024 Semiannual Groundwater Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from July 2024 through December 2024 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 6¹ 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.

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 2024 semiannual reporting period, the site remained in assessment monitoring.

During this reporting period, Arcadis conducted a groundwater sampling event in August 2024. 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 III² parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV³ parameters⁴.



Plant Yates and the site

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.

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| Appendix III Parameter | August 2024 |
|------------------------|----------------------------|
| 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 |

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.

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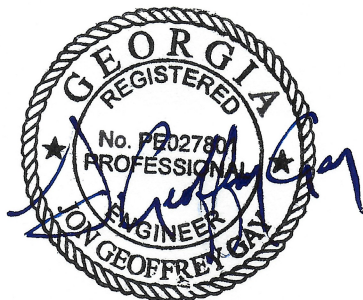
Acronyms and Abbreviations

| | |
|-------|---|
| 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 2024 Semiannual 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.



2.28.25

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

Date

1 Introduction

This 2024 Semiannual 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 December 2024. 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.

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.

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 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 in August 2024. During the August 2024 event, 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, 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 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 monitoring event 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;
- $\pm 5\%$ for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units; and
- $\pm 10\%$ 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 semiannual assessment event 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. 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 event 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 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 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 event 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 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 2024 Semiannual 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 February 2025. This monitoring event will include sampling and analysis of all Appendix III and IV constituents.

7 References

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

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Tables

| 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 | 706.00 | 656.00 | 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 | 787.6 | 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 | 749.20 | 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 | 702.90 | 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 | 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

Acronyms and Abbreviations:
bTOC = below top of casing
ft = feet
PWR = Partially Weathered Rock

Table 2
Groundwater Sampling Event Summary
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates AP-1



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

Notes

1. All wells analyzed for Appendix III and Appendix IV.

2. Pooled upgradient wells

Appendix III = Constituents 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
2024 Semiannual 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
2024 Semiannual 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 |

Notes

Elevation in U.S. Survey Feet (NAVD88)

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

TOC = top of casing

Table 5
Groundwater Flow Velocity Calculations
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-1



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 10.5 ft/day | See note 1 |
| 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 |
| n _e = | 0.20 unitless | See note 2 |

Average Linear Velocity

Aug. 2024

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

$$V = 1.2 \text{ ft/day, or } 438 \text{ ft/year}$$

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
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates AP-1



| Analyte Name | Units | YGWC-44 8/21/2024 | YGWC-45 8/21/2024 | YGWC-46A 8/21/2024 | YGWC-52 8/21/2024 |
|---------------------------|-------|----------------------|----------------------|-----------------------|----------------------|
| Appendix III | | | | | |
| pH | SU | 5.80 | 6.54 | 7.41 | 6.01 |
| Boron | mg/L | 0.49 | 0.31 | 2.2 | < 0.012 |
| Calcium | mg/L | 32.8 | 58.3 | 124 | 37.6 |
| Chloride | mg/L | 13.3 | 6.5 | 39.6 | 3.0 |
| Fluoride | mg/L | < 0.050 | 0.077 J | 0.10 | < 0.050 |
| Sulfate | mg/L | 121 | 166 | 518 | 87.1 |
| Total Dissolved Solids | mg/L | 320 | 442 | 1060 | 232 |
| Appendix IV | | | | | |
| Antimony | mg/L | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 |
| Arsenic | mg/L | 0.0043 J | < 0.00084 | 0.0020 J | < 0.00084 |
| Barium | mg/L | 0.069 | 0.054 | 0.048 | 0.018 |
| Beryllium | mg/L | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 |
| Cadmium | mg/L | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 |
| Chromium | mg/L | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 |
| Cobalt | mg/L | 0.0010 J | 0.00053 J | 0.00078 J | 0.00054 J |
| Fluoride | mg/L | < 0.050 | 0.077 J | 0.10 | < 0.050 |
| Lead | mg/L | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 |
| Lithium | mg/L | 0.011 J | 0.011 J | 0.011 J | 0.0034 J |
| Mercury | mg/L | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 |
| Molybdenum | mg/L | < 0.00062 | 0.0010 J | 0.0038 J | < 0.00062 |
| Combined Radium - 226/228 | pCi/L | 0.411 U | 1.29 | 1.87 | 0.862 U |
| Selenium | mg/L | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 |
| Thallium | mg/L | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 |

Notes:

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

Appendix IV = Constituents 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 qualified by the laboratory as estimated.

| Analyte | Units | YGWA-1I 8/20/2024 | YGWA-1D 8/20/2024 | YGWA-2I 8/20/2024 | YGWA-3I 8/20/2024 | YGWA-3D 8/20/2024 | YGWA-4I 8/20/2024 | YGWA-5I 8/20/2024 | YGWA-5D 8/20/2024 | YGWA-14S 8/20/2024 |
|---------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| Appendix III | | | | | | | | | | |
| pH | SU | 5.77 | 7.18 | 6.91 | 7.45 | 7.59 | 6.03 | 5.58 | 7.3 | 5.49 |
| Boron | mg/L | < 0.012 | < 0.012 | < 0.012 | < 0.012 | < 0.012 | < 0.012 | < 0.012 | < 0.012 | 0.014 J |
| Calcium | mg/L | 1.9 | 17.7 | 30.4 | 23.4 | 30.0 | 9.1 | 3.2 | 29.1 | 1.3 |
| Chloride | mg/L | 1.3 | 1.0 | 0.91 J | 1.0 | 1.1 | 5.2 | 4.8 | 3.4 | 4.5 |
| Fluoride | mg/L | < 0.050 | 0.066 J | 0.085 J | 0.12 | 0.45 | < 0.050 | < 0.050 | 0.058 J | < 0.050 |
| Sulfate | mg/L | 4.9 | 12.2 | 21.3 | 13.7 | 7.7 | 8.7 | 2.6 | 4.3 | 6.0 |
| Total Dissolved Solids | mg/L | 67.0 | 140 | 184 | 179 | 164 | 128 | 108 | 212 | 81.0 |
| Appendix IV | | | | | | | | | | |
| Antimony | mg/L | < 0.00054 | 0.00088 J | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 |
| Arsenic | mg/L | < 0.00084 | 0.00099 J | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 | 0.0012 J | < 0.00084 |
| Barium | mg/L | 0.0072 | 0.0061 | 0.0033 J | 0.0027 J | 0.0044 J | 0.012 | 0.018 | 0.0066 | 0.0075 |
| Beryllium | mg/L | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | 0.00021 J |
| Cadmium | mg/L | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | 0.00019 J | < 0.00010 | < 0.00010 | < 0.00010 |
| Chromium | mg/L | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 |
| Cobalt | mg/L | 0.00033 J | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 |
| Lead | mg/L | < 0.050 | 0.066 J | 0.085 J | 0.12 | 0.45 | < 0.050 | < 0.050 | 0.058 J | < 0.050 |
| Fluoride | mg/L | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 |
| Lithium | mg/L | 0.0023 J | 0.0037 J | < 0.0016 | 0.017 J | 0.021 J | 0.011 J | 0.0031 J | 0.0024 J | < 0.0016 |
| Mercury | mg/L | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 |
| Molybdenum | mg/L | 0.0039 J | 0.010 | 0.011 | 0.0058 J | 0.012 | < 0.00062 | < 0.00062 | 0.00074 J | < 0.00062 |
| Combined Radium - 226/228 | pCi/L | 0.650 U | 0.460 U | 0.0912 U | 0.921 U | 3.09 | 1.18 | 0.695 U | 3.02 | 0.667 U |
| Selenium | mg/L | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | 0.0012 J |
| Thallium | mg/L | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 |

Notes:
 Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III
 Appendix IV = Constituents 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 qualified by the laboratory as estimated.

| Analyte | Units | YGWA-17S 8/20/2024 | YGWA-18I 8/20/2024 | YGWA-18S 8/21/2024 | YGWA-20S 8/20/2024 | YGWA-21I 8/20/2024 | YGWA-30I 8/20/2024 | YGWA-39 8/21/2024 | YGWA-40 8/21/2024 | YGWA-47 8/20/2024 |
|---------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|
| Appendix III | | | | | | | | | | |
| pH | SU | 5.45 | 5.74 | 5.42 | 6.0 | 6.6 | 6.07 | 6.0 | 5.38 | 5.48 |
| Boron | mg/L | < 0.012 | < 0.012 | < 0.012 | < 0.012 | < 0.012 | < 0.012 | 0.13 | 0.061 | < 0.012 |
| Calcium | mg/L | 3.5 | 5.9 | 0.96 J | 2.8 | 6.9 | 1.4 | 19.7 | 6.0 | 10 |
| Chloride | mg/L | 12.7 | 7.8 | 7.4 | 3.0 | 2.3 | 1.4 | 4.0 | 5.4 | 3.6 |
| Fluoride | mg/L | < 0.050 | < 0.050 | 0.051 J | < 0.050 | 0.062 J | < 0.050 | 0.083 J | 0.060 J | < 0.050 |
| Sulfate | mg/L | 4.6 | 0.74 J | 1.1 | < 0.50 | 4.0 | 0.74 J | 6.6 | 18.2 | 53.9 |
| Total Dissolved Solids | mg/L | 86.0 | 128 | 79.0 | 75.0 | 143 | 69.0 | 235 | 94.0 | 155 |
| Appendix IV | | | | | | | | | | |
| Antimony | mg/L | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 |
| Arsenic | mg/L | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 | 0.0027 J | 0.0014 J | < 0.00084 |
| Barium | mg/L | 0.016 | 0.019 | 0.015 | 0.012 | 0.083 | 0.067 | 0.030 | 0.033 | 0.031 |
| Beryllium | mg/L | 0.00010 J | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | 0.00023 J | < 0.000094 |
| Cadmium | mg/L | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 |
| Chromium | mg/L | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 |
| Cobalt | mg/L | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 | 0.020 | 0.0023 J | 0.00048 J | < 0.00032 | 0.00034 J |
| Lead | mg/L | < 0.050 | < 0.050 | 0.051 J | < 0.050 | 0.062 J | < 0.050 | 0.083 J | 0.060 J | < 0.00016 |
| Fluoride | mg/L | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | 0.0036 J |
| Lithium | mg/L | < 0.0016 | 0.0032 J | 0.0032 J | < 0.0016 | 0.0057 J | < 0.0016 | 0.0055 J | < 0.0016 | < 0.00013 |
| Mercury | mg/L | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | 0.00033 | < 0.00062 |
| Molybdenum | mg/L | < 0.00062 | < 0.00062 | < 0.00062 | < 0.00062 | < 0.00062 | < 0.00062 | 0.0068 J | < 0.00062 | 0.873 U |
| Combined Radium - 226/228 | pCi/L | 0.554 U | 0.223 U | 0.684 U | 0.371 U | 0.545 U | 0.748 U | 1.52 | 0.265 U | < 0.00096 |
| Selenium | mg/L | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00038 |
| Thallium | mg/L | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.050 |

Notes:
 Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III
 Appendix IV = Constituents 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 qualified by the laboratory as estimated.

Table 7
Background Levels and Groundwater Protection Standards
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-1



| Constituent | Units | Background ¹ | GWPS |
|---------------------------|-------|-------------------------|--------------------|
| August 2024 | | | |
| 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 |

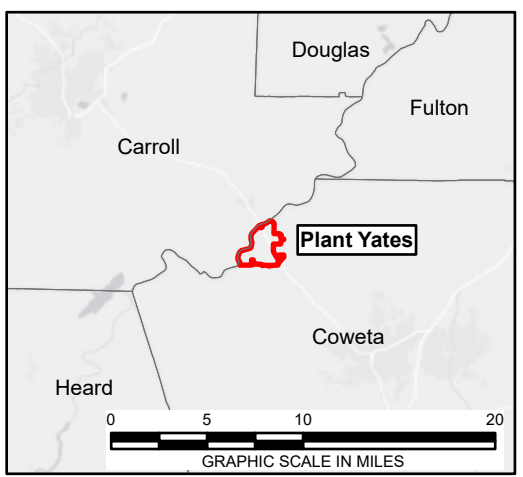
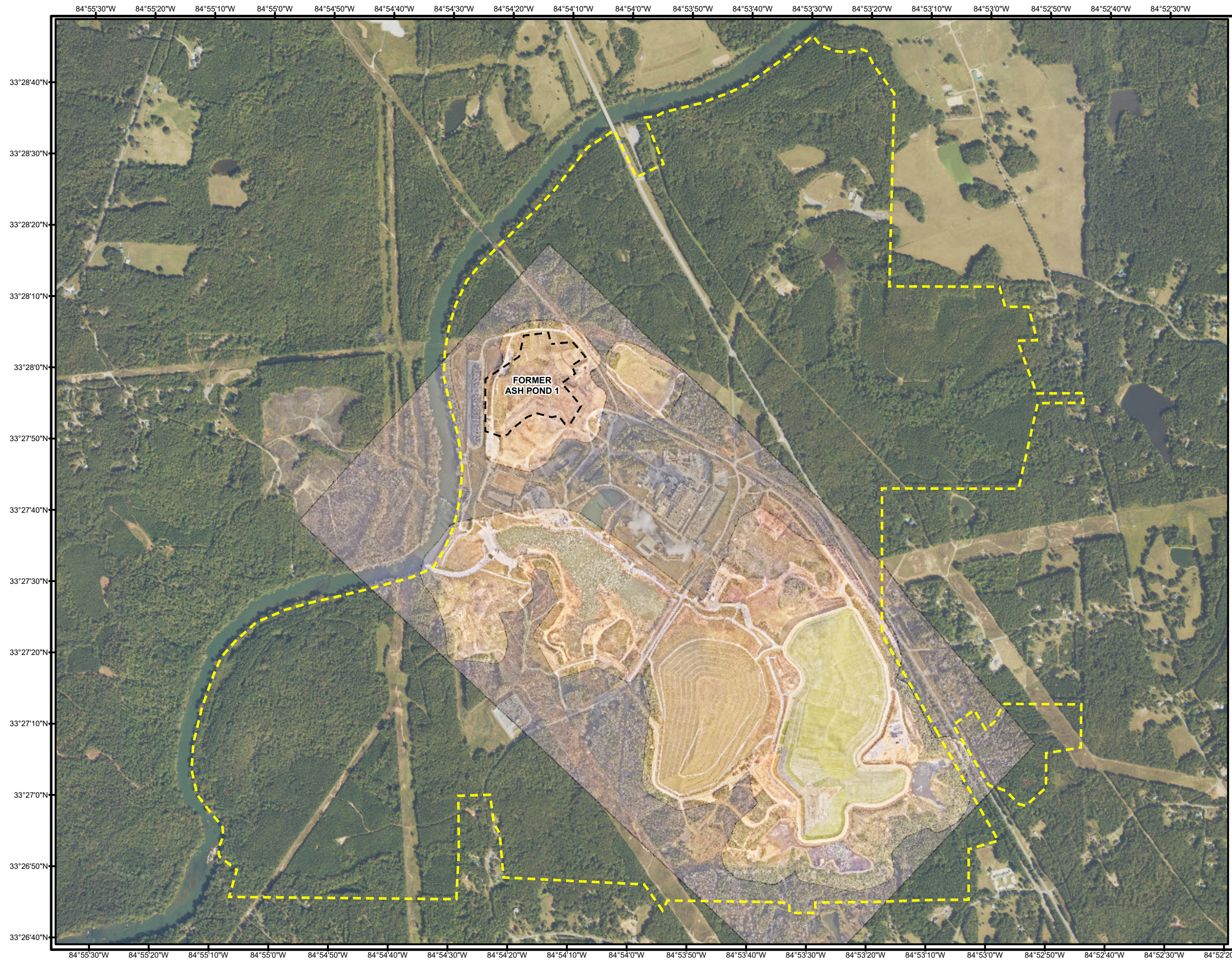
Notes:

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 = milligrams per liter
pCi/L = picocuries per liter

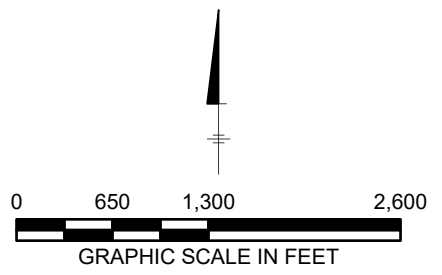
Figures



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

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



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

Georgia Power
 PLANT YATES AP-1
 NEWNAN, GA
 2024 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS | **FIGURE 1**

84°54'55"W 84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W 84°52'45"W

33°28'10"N
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

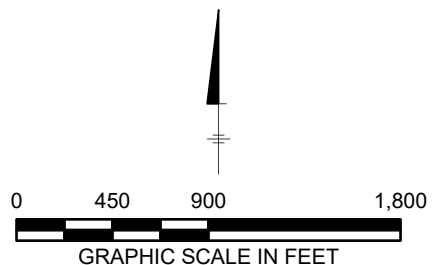


84°54'55"W 84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W 84°52'45"W

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 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET

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PLANT YATES CCR REMOVAL AREAS

ARCADIS

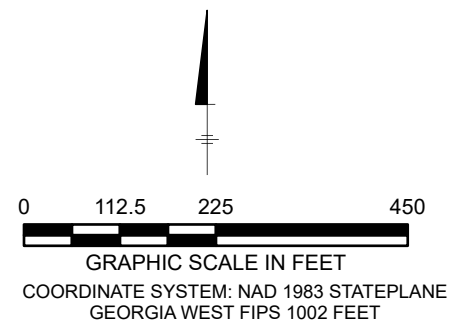
FIGURE
2



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 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.



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 AND CORRECTIVE ACTION REPORT

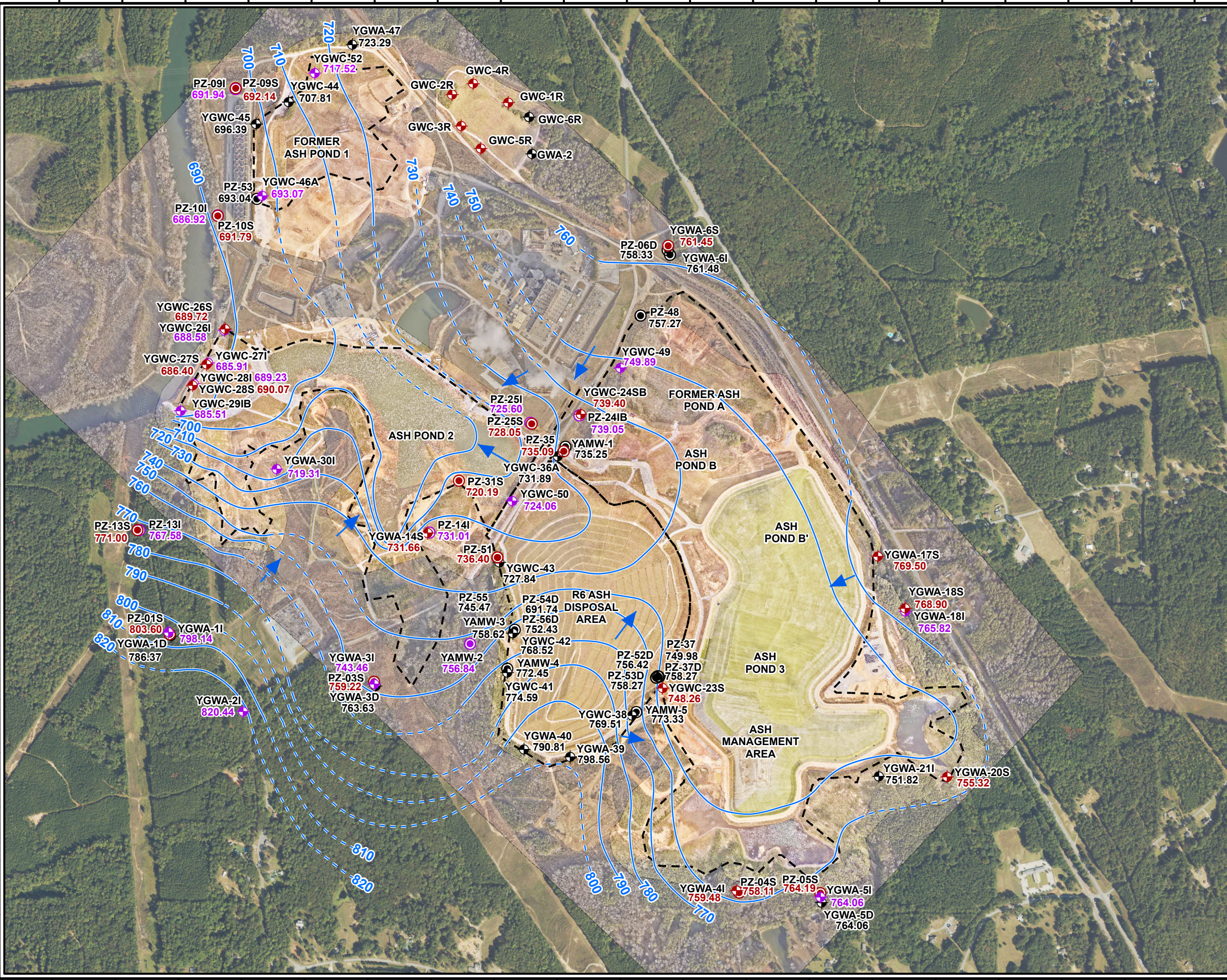
WELL LOCATION MAP

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



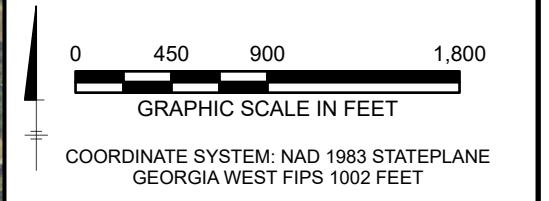
LEGEND

- 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
- <ALL OTHER VALUES>
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- FLOW LINE



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.
7. WELL LOCATIONS AT FORMER GYPSUM LANDFILL NOT GAUGED.



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SITESIDE 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

84°54'38"W 84°54'36"W 84°54'34"W 84°54'32"W 84°54'30"W 84°54'28"W 84°54'26"W 84°54'24"W 84°54'22"W 84°54'20"W 84°54'18"W 84°54'16"W 84°54'14"W 84°54'12"W 84°54'10"W 84°54'8"W 84°54'6"W

33°28'6"N
33°28'4"N
33°28'2"N
33°28'0"N
33°27'58"N
33°27'56"N
33°27'54"N
33°27'52"N
33°27'50"N
33°27'48"N
33°27'46"N



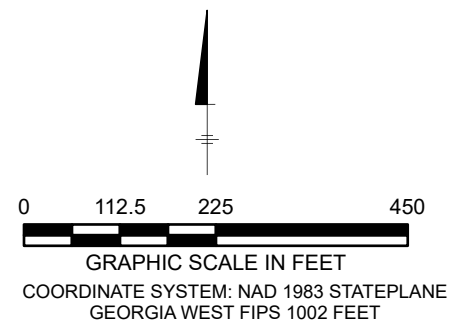
LEGEND

- 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)



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.



Georgia Power
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2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
GROUNDWATER ELEVATION MAP, AUGUST 2024

ARCADIS

FIGURE
5

84°54'36"W 84°54'34"W 84°54'32"W 84°54'30"W 84°54'28"W 84°54'26"W 84°54'24"W 84°54'22"W 84°54'20"W 84°54'18"W 84°54'16"W 84°54'14"W 84°54'12"W 84°54'10"W 84°54'8"W 84°54'6"W

Appendix A

Laboratory Analytical and Data Validation Reports

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.

Data Review Report

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:

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

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.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(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 Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincy Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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

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| | | | |
|--|--|---|--|
| Company Name: Southern Company Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308 | | Contact/Report To: Trey Singleton Phone #: 205.946.3317 E-Mail: rosingle@southernco.com Cc E-Mail: Arcadis contacts | |
| Customer Project #: Task No. YAT-CCR-A55MT-202452 Project Name: Georgia Power Yates | | Invoice To: Invoice E-Mail: Purchase Order # (if applicable): GPCB2474-0002 Quote #: | |
| Site Collection Info/Facility ID (as applicable): YAT AP-1 | | County / State origin of sample(s): Georgia | |
| Time Zone Collected: <input type="checkbox"/> AK <input type="checkbox"/> PT <input type="checkbox"/> MT <input type="checkbox"/> CT <input checked="" type="checkbox"/> ET | | Regulatory Program (DW, RCRA, etc.) as applicable: <input checked="" type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input checked="" type="checkbox"/> EQUIS <input type="checkbox"/> Other _____ | |
| Data Deliverables: <input checked="" type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input checked="" type="checkbox"/> EQUIS <input type="checkbox"/> Other _____ | | Rush (Pre-approval required): <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 day <input type="checkbox"/> 5 day <input type="checkbox"/> Other _____ Date Results Requested: DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SWB46 9315/6320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|---------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| 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: <i>KIM LAPSEYNSKI</i> Printed Name: (Arcadis) - <i>Kim Lapsey</i> Signature: (Arcadis) - <i>Kim Lapsey</i> | | Additional Instructions from Pace*: # Coolers: _____ Thermometer ID: _____ Correction Factor (°C): _____ Obs. Temp. (°C) _____ Corrected Temp. (°C) _____ | |
| Relinquished by/Company (Signature): <i>[Signature]</i> / Arcadis | Date/Time: 8/22/24 0730 | Received by/Company (Signature): <i>[Signature]</i> / Arcadis | Date/Time: 8/22/24 0730 | Tracking Number: | |
| Relinquished by/Company (Signature): <i>[Signature]</i> | Date/Time: 8/22/24 0725 | Received by/Company (Signature): <i>[Signature]</i> / Pace | Date/Time: 8/22/24 0926 | Delivered by: <input type="checkbox"/> In-Person <input type="checkbox"/> Courier | |
| Relinquished by/Company (Signature): <i>[Signature]</i> / Pace | Date/Time: 8/22/24 1215 | Received by/Company (Signature): <i>[Signature]</i> | Date/Time: 8/22/24 1215 | <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> 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 Pace* Location Requested (City/State): Pace Analytical Charlotte 9800 Kinsey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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

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Scan QR Code for instructions

| Company Name: Southern Company Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308 | | Contact/Report To: Trey Singelton Phone #: 205.346.3317 E-Mail: trosingle@southernco.com Cc E-Mail: Arcadis contacts | | | | | | | | | | | | | | | | | | | | |
|--|----------|--|--------------------------------|------|---------------|---|----------|-----------------------------|---------------------------|---|------------------------|---|---------------------|--|--|--|--|--|----------------|--|-------------|--|
| Customer Project #: Task No. YAT-CGR-AS5MT-202452 Project Name: Georgia Power Yates | | Invoice To: Invoice E-Mail: Purchase Order # (if applicable): GFCB2474-0002 Quote #: | | | | | | | | | | | | | | | | | | | | |
| Site Collection Info/Facility ID (as applicable): YAT AP-1 | | County / State origin of sample(s): Georgia | | | | | | | | | | | | | | | | | | | | |
| Time Zone Collected: <input type="checkbox"/> JAK <input type="checkbox"/> PT <input type="checkbox"/> MT <input type="checkbox"/> CT <input checked="" type="checkbox"/> ET | | Regulatory Program (DW, RCRA, etc.) as applicable: Rush (Pre-approval required): <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 day <input type="checkbox"/> 5 day <input type="checkbox"/> Other _____ Date Results Requested: _____ Field Filtered (if applicable): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Analysis: _____ | | | | | | | | | | | | | | | | | | | | |
| Data Deliverables: <input checked="" type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input checked="" type="checkbox"/> EQUIS <input type="checkbox"/> 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) | | Composite End | | Res. Cl2 | Number & Type of Containers | | App III/IV Metals | Cl. F. 504 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | | | | | | Sample Comment | Preservation non-conformance identified for sample | | |
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | | | | | | | | | |
| 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, Ba, Cd, Cr, Co, Pb, Li, Mo, Se, Ti; 7040A: Hg | | | | | | | | | | Collected By: Printed Name: (Arcadis) - KIM LAPSYASKI Signature: (Arcadis) - <i>[Signature]</i> Additional Instructions from Pace*: # Coolers: _____ Thermometer ID: _____ Correction Factor (°C): _____ Obs. Temp. (°C) _____ Corrected Temp. (°C) _____ | | | | | | | | | | | | |
| Relinquished by/Company: (Signature) <i>[Signature]</i> / Arcadis | | | Date/Time: 8/23/24 / 1130 | | | Received by/Company: (Signature) <i>[Signature]</i> / Arcadis | | | Date/Time: 8/23/24 / 1130 | | | Tracking Number: _____ | | | | | | | | | | |
| Relinquished by/Company: (Signature) <i>[Signature]</i> / Arcadis 1350 | | | Date/Time: 8/23/24 / 1350 | | | Received by/Company: (Signature) <i>[Signature]</i> / Arcadis | | | Date/Time: 8/23/24 / 1350 | | | Delivered by: <input type="checkbox"/> In-Person <input type="checkbox"/> Courier <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Other | | | | | | | | | | |
| Relinquished by/Company: (Signature) _____ | | | Date/Time: _____ | | | Received by/Company: (Signature) _____ | | | Date/Time: _____ | | | Page: _____ of _____ | | | | | | | | | | |

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September 09, 2024

Trey Singleton
Southern Company
241 Ralph 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



REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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 |

REPORT OF LABORATORY ANALYSIS

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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

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SUMMARY OF DETECTION

Project: YAT AP-1

Pace Project No.: 92749160

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 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 | |

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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 |

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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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|--|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|--|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 |

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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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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QUALITY CONTROL DATA

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

QC Batch: 878069 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A 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 | MS | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|--------|--------|-------|-------|-----|--------|--------------|-----|---------|------|
| | | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | | | | |
| Calcium | mg/L | 21500 ug/L | 1 | 1 | 23.8 | 22.3 | 230 | 73 | 75-125 | 7 | 20 | M1 | |

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QUALITY CONTROL DATA

Project: YAT AP-1

Pace Project No.: 92749160

QC Batch: 878921

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

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 | 4526911 | | 4526912 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Calcium | mg/L | 14.4 | 1 | 1 | 15.0 | 15.2 | 64 | 84 | 75-125 | 1 | 20 |

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QUALITY CONTROL DATA

Project: YAT AP-1

Pace Project No.: 92749160

QC Batch: 877939

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

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 | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|-------------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MS Result | Spike Conc. | MSD Result | | | | | | |
| 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 | |

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QUALITY CONTROL DATA

Project: YAT AP-1

Pace Project No.: 92749160

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522338 4522342 | | | | | | | | | | | | |
|--|-------|-----------------------|----------------|----------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
| | | 92749074010 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | |
| 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 | |

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QUALITY CONTROL DATA

Project: YAT AP-1

Pace Project No.: 92749160

QC Batch: 878587

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

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 | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92749173008 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| 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 | | |

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QUALITY CONTROL DATA

Project: YAT AP-1

Pace Project No.: 92749160

| Parameter | Units | 4525186 | | 4525187 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92749173008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| 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 | | |

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REPORT OF LABORATORY ANALYSIS

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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 | 4534212 | | 4534213 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | 0.00033 | 0.0025 | 0.0028 | 0.0031 | 99 | 111 | 75-125 | 10 | 20 | |

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QUALITY CONTROL DATA

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

QC Batch: 878881 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: 92749160005, 92749160006, 92749160007

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

Table with 7 columns: Parameter, Units, Blank Result, Reporting Limit, MDL, Analyzed, Qualifiers. Row: Total Dissolved Solids, mg/L, ND, 25.0, 25.0, 08/28/24 13:46

LABORATORY CONTROL SAMPLE: 4526610

Table with 7 columns: Parameter, Units, Spike Conc., LCS Result, LCS % Rec, % Rec Limits, Qualifiers. Row: Total Dissolved Solids, mg/L, 400, 405, 101, 80-120

SAMPLE DUPLICATE: 4526611

Table with 7 columns: Parameter, Units, 92749173008 Result, Dup Result, RPD, Max RPD, Qualifiers. Row: Total Dissolved Solids, mg/L, 742, 757, 2, 10

SAMPLE DUPLICATE: 4526612

Table with 7 columns: Parameter, Units, 92749173023 Result, Dup Result, RPD, Max RPD, Qualifiers. Row: 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

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QUALITY CONTROL DATA

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

QC Batch: 877660 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch 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 | | 4521134 | | 4521135 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|------------|----------------|-----------------|-----------|------------|-------|--------|--------------|-----|---------|------|
| | | MS Result | MSD Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| 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 | | 4521136 | | 4521137 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|------------|----------------|-----------------|-----------|------------|-------|--------|--------------|-------|---------|------|
| | | MS Result | MSD Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| 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 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-1

Pace Project No.: 92749160

QC Batch: 878325 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch 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 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | |
| 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 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | |
| 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 | | |

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REPORT OF LABORATORY ANALYSIS

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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.

REPORT OF LABORATORY ANALYSIS

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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 | | |

REPORT OF LABORATORY ANALYSIS

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Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

WO#: 92749160



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

Sample Condition: Upon Receipt

Client Name: G.A. Power

Project #:

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

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

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



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

Effective Date: 05/24/2024

WO#: 92749160

Project #

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

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 2N 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 Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2SO3 (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) | BP3B-250 mL Plastic (NH2)2SO4 (p. 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 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 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.



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

Effective Date: 05/24/2024

WO#: 92749160

Project #

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

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) (C-) | 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) (C-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (C-) | VGFU-Wide-mouthed Glass Jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (C-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (C-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A) (C-) | 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) (C-) | VG6U-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|--|---------------------------------------|---------------------------------------|--|---|-----------------------------------|--|---|---|---|---------------------------------|--|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|--|--------------------------------------|--|---|---|
| CC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 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.

Company Name: **Southern Company**
Street Address: **241 Ralph McGill Blvd, Atlanta, GA 30308**

Contact/Report To: **Trey Singleton**
Phone #: **205.346.3317**
E-Mail: **trsingleton@southernco.com**
C-E-Mail: **Arcadis.contacts**

Customer Project ID: **Task No YAT-COR-ASSMT-202452**
Project Name: **Georgia Power Yards**

Invoice To:
Invoice E-Mail:
Purchase Order # (if applicable): **GFCE2274.0002**
Quote #:

Site Collection Info/Facility ID (as appl cable):
YAT-AB-1

County / State origin of sample(s): **Georgia**

Time Zone Collected: [] AM [] PT [] MT [] CT [] ET
Regulatory Program: [] DW, [] RCR, [] etc. as applicable.
Rush (Pre-approval required):
[] 2 Day [] 3 day [] 5 day [] Other
Date Results Requested:
Field Filtered (if applicable): [] Yes [] No
Analysis:
Dw, PWSID # or Wv Permit # as applicable:

Regulatory Program: [] DW, [] RCR, [] etc. as applicable.
Rush (Pre-approval required):
[] 2 Day [] 3 day [] 5 day [] Other
Date Results Requested:
Field Filtered (if applicable): [] Yes [] No
Analysis:
Dw, PWSID # or Wv Permit # as applicable:

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

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

| Customer Sample ID | Matrix * | Comp / Grab | Collected Date | Time | Composite End Date | Time | Res. C12 | Number & Type of Containers |
|--------------------|----------|-------------|----------------|------|--------------------|------|----------|-----------------------------|
| | | | | | | | | Plastic Glass |
| YAT-YGWC-52 | WG | G | 8/22/24 | 0930 | | | | 5 |
| YAT-YGWC-44 | WG | G | | | | | | 5 |
| YAT-YGWC-45 | WG | G | | | | | | 5 |
| YAT-YGWC-46A | WG | G | | | | | | 5 |
| YAT-AP1-FD-1 | WG | G | | | | | | 5 |
| YAT-AP1-FB-1 | WG | G | 8/22/24 | 0955 | | | | 5 |
| YAT-AP1-FB 1 | WG | G | 8/22/24 | 0940 | | | | 5 |

| App III/IV Metals | CT, T, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW646 9315/0320 |
|-------------------|------------------------|----------------|---------------------|
| See Remarks | X | X | X |
| See Remarks | X | X | X |
| See Remarks | X | X | X |
| See Remarks | X | X | X |
| See Remarks | X | X | X |
| See Remarks | X | X | X |
| See Remarks | X | X | X |
| See Remarks | X | X | X |

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

Collected By: **KIM LAPSAWSEKI**
Printed Name: (Arcadis) -
Signature: (Arcadis) -

Received By, Company: (Signature)
Printed Name: (Arcadis) -
Signature: (Arcadis) -

Received By, Company: (Signature)
Printed Name: (Arcadis) -
Signature: (Arcadis) -

Received By, Company: (Signature)
Printed Name: (Arcadis) -
Signature: (Arcadis) -

Additional Instructions from Pace*:
Coders: Thermometer ID: Correction Factor (C): Obs. Temp (C) Corrected Temp (C)

Trading Number:
Labo Temp: **8/23/24 / 1130**
Date/Time: **8/23/24 1350**
Delivered by: [] In-Person [] Courier
[] FedEx [] UPS [] Other

Page: **1** of **1**



Scan QR Code for instructions

Specify Container Size **
3 3 2 1
Identify Container Preservation Type ***
2 1 1 2
Analysis Requested

Proj. Mgr:
Bonnie Vang
Account / Client ID:
Table #:
Profile / Template:
16561
Prep. / Bottle Ord. ID:

**Container Size: (1) 1L (2) 500mL (3) 250mL (4) 125mL (5) 100mL (6) 40mL (7) 500mL (8) Terra-Care (9) Other
***Preservative Type: (1) None (2) HNO3 (3) H2SO4 (4) HCl (5) NaOH (6) Acetic Acid (7) Phosphoric Acid (8) Sodium Thiosulfate (9) Ascorbic Acid (10) MeOH (11) Other

Preservation non-container identifier for sample



DO#_THE ENVIRONMENT 688 100 Sample Collection Form
 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: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

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

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

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? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Includes Date/Time/ID/Analysis Matrix: <u>W</u> | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 (pH > 12) (Cl-) | 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 N2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-4E mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit) VP-H/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 (pH 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 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).



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.

Project #

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 # | Item Description | CC | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|
| 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 (pH) | | | | | | | | | | | | | | |
| BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | | | | | | | | | | | | | | |
| WG7U-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) | | | | | | | | | | | | | | |
| SP9T-125 mL Sterile Plastic (N/A - lab) | | | | | | | | | | | | | | |
| SP9T-250 mL Sterile Plastic (N/A - lab) | | | | | | | | | | | | | | |
| BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7) | | | | | | | | | | | | | | |
| AG9U-100 mL Amber Unpreserved (N/A) (Cl-) | | | | | | | | | | | | | | |
| VSGU-20 mL Scintillation vials (N/A) | | | | | | | | | | | | | | |
| DG9U-40 mL Amber Unpreserved vials (N/A) | | | | | | | | | | | | | | |

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 # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
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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).



September 20, 2024

Trey Singleton
Southern Company
241 Ralph 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



REPORT OF LABORATORY ANALYSIS

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



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

REPORT OF LABORATORY ANALYSIS

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



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 |

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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

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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

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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 | |

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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 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1- RADs

Pace Project No.: 92749165

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|---------------------------------------|---|-------|----------------|------------|------|
| 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: | | | | | | |
| | 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 | |

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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 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-1- RADs

Pace Project No.: 92749165

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| 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: | | | | | | |
| 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 | |

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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 | |

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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 | |

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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 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1- RADs

Pace Project No.: 92749165

QC Batch: 693376

Analysis Method: EPA 9315

QC Batch 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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1- RADs

Pace Project No.: 92749165

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: 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 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1- RADs

Pace Project No.: 92749165

QC Batch: 691962

Analysis Method: EPA 9320

QC Batch 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 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-1- RADs

Pace Project No.: 92749165

QC Batch: 693289

Analysis Method: EPA 9320

QC Batch 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.

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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.

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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 | | |

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Doc#_Title: ENVIRONMENTAL SAMPLES - ...

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: SA Power

Project #: WO#: 92749165



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 COH

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



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

Effective Date: 05/24/2024

WO#: 92749165

Project #

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

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 2N 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-) | VG6U-20 mL Sterilization vials (N/A) | DG6U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|---|---|
| CC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 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 Pace[®] Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincroy Ave., Suite 109, 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 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308 | Contact/Report To: Trey Singelton Phone #: 205.346.3317 E-Mail: rosingl@southernco.com Cc E-Mail: Arcadis contacts | |
| Customer Project #: Task No. YAT-CCR-A55MT-202452 Project Name: Georgia Power Yates | Invoice To: Invoice E-Mail: Purchase Order # (if applicable): GPCB2474-0002 Quote #: | |
| Time Zone Collected: <input type="checkbox"/> AK <input type="checkbox"/> PT <input type="checkbox"/> MT <input type="checkbox"/> CT <input checked="" type="checkbox"/> ET | | County / State origin of sample(s): Georgia |
| Data Deliverables: <input checked="" type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input checked="" type="checkbox"/> EQUIS <input type="checkbox"/> Other: | | Regulatory Program (DW, RCRA, etc.) as applicable: Rush (Pre-approval required): <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 day <input type="checkbox"/> 5 day <input type="checkbox"/> 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 | | DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Analysis: |

| | | | |
|---|---|--|---|
| Specify Container Size ** | | ** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other | |
| 3 | 3 | 2 | 1 |
| Identify Container Preservative Type*** | | *** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zr Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other | |
| 2 | 1 | 1 | 2 |
| Analysis Requested | | | |

| | | |
|--------------|---|--|
| Lab Use Only | App III/IV Metals Cl, F, SO4 (EPA 300.0) TDS (SM 2540C) RAD SWB46 93158320 | Proj. Mgr: Bonnie Vang AcctNum / Client ID: Table #: Profile / Template: 16561 Prelog / Bottle Ord. ID: |
| | | Preservation non-compliance identified for sample. |

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SWB46 93158320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|--------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| 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, Ti; 7040A: Hg. | Collected By: Printed Name: (Arcadis) <i>KLIM LAPSCZYNSKI</i> Signature: (Arcadis) <i>Ki Zi</i> | Additional Instructions from Pace[®]: # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) |
|---|--|--|

| | | |
|--|--|---|
| Relinquished by/Company (Signature): <i>[Signature]</i> / ARCADIS Date/Time: 8/22/24 0730 | Received by/Company (Signature): <i>[Signature]</i> / Arcadis Date/Time: 8/22/24 0730 | Tracking Number: |
| Relinquished by/Company (Signature): <i>[Signature]</i> Date/Time: 8/22/24 0925 | Received by/Company (Signature): <i>[Signature]</i> / Pace Date/Time: 8/22/24 0925 | Delivered by: <input type="checkbox"/> In-Person <input type="checkbox"/> Courier <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Other |
| Relinquished by/Company (Signature): <i>[Signature]</i> / Pace Date/Time: 8/22/24 1215 | Received by/Company (Signature): <i>[Signature]</i> Date/Time: 8/22/24 1215 | 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 ©

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers: _____

COMMENTS/SAMPLE DISCREPANCY

| Field Data Required? | Yes | No | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Rush Turn Around Time Requested? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient Volume? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Correct Containers Used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -Face Containers Used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Containers Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dissolved analysis: Samples Field Filtered? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -Includes Date/Time/ID/Analysis Matrix: | M | | |
| Headspace in VOA Vials (>5-6mm)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Trip Blank Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Trip Blank Custody Seals Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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

USDA Regulated Soil (N/A, water sample) Yes No

Cooler Temp Corrected (°C): 1.9

Cooler Temp: 6.0

Add/Subtract (°C): 1.9

Thermometer: Ir Gun ID: 230

Packing Material: Bubble Wrap Bubble Bags None Other

Type of Ice: Wet Blue None

Courier: Commercial Fed Ex UPS USPS Other: Planet

Client Name: Georgia Power

Project #: _____

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

Biological Tissue Frozen? Yes No N/A

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

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

Comments/Discapancy: _____

Effective Date: 05/24/2024

LABORATORY RECEIVING SAMPLES: Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

| 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)? | |
|---|----------------|-----------|
| | LCSD80993 | 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% |

| Duplicate Sample Assessment | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
|--|---|
| Sample I.D.: | |
| Duplicate Sample I.D.: | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 4.124 |
| Sample Duplicate Result (pCi/L, g, F): | 0.955 |
| Sample Duplicate Result 2 Sigma CSU (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 |
| Duplicate Percent Recoveries): Duplicate RPD: | 17.32% |
| Duplicate Status vs Numerical Indicator: | Pass |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

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

| 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: Sample 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: | | |

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

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

| 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 | | LCS (Y or N)? | Y |
|---|-----------|---------------|---|
| Count Date: | 9/13/2024 | LCS081111 | |
| Spike I.D.: | 23-043 | LCS081111 | |
| Decay Corrected Spike Concentration (pCi/mL): | 35.306 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.816 | | |
| Target Conc. (pCi/L, g, F): | 4.327 | | |
| Uncertainty (Calculated): | 0.212 | | |
| Result (pCi/L, g, F): | 4.229 | | |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.985 | | |
| Numerical Performance Indicator: | -0.19 | | |
| Percent Recovery: | 97.74% | | |
| Status vs Numerical Indicator: | N/A | | |
| Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 135% | | |
| Lower % Recovery Limits: | 60% | | |

| Duplicate Sample Assessment | |
|---|-----------|
| Sample I.D.: | LCS081111 |
| Duplicate Sample I.D.: | LCS081111 |
| 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: | 11.96% |
| Duplicate Status vs Numerical Indicator: | Pass |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

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.

| 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: | | | |
| Sample Matrix Spike Duplicate Result: | | | |
| 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: | | | |

| 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: | |
| Sample 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: | |

EST 9/16/24
Du 9/16/24

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 3370048 |
| MB concentration: | 0.081 |
| MB 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 | | |
|---|----------------|-----------|
| Count Date: | LCSD (Y or N)? | Y |
| 9/16/2024 | LCSD81002 | 9/16/2024 |
| Decay Corrected Spike Concentration (pCi/mL): | 23-014 | 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% |

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

| Sample Matrix Spike Control Assessment | |
|--|----------|
| Sample Collection Date: | MS/MSD 1 |
| Sample ID: | MS/MSD 2 |
| 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: | |
| 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: | |

| 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: | |
| Sample Matrix Spike Duplicate 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:

67
9-16-24

AM01101024

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/12/2024
Worklist: 81121
Matrix: WT

| 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 | LCS (Y or N)? | |
|---|---------------|-----------|
| | LCS81121 | LCSDB1121 |
| 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 |
| Upper % Recovery Limits: | N/A | N/A |
| Lower % Recovery Limits: | 75% | 75% |

| Duplicate Sample Assessment | LCS81121 | 92749203007 |
|---|-----------|----------------|
| Sample I.D.: | LCS81121 | 92749203007 |
| Duplicate Sample I.D.: | LCSDB1121 | 92749203007DUP |
| Sample Result (pCi/L, g, F): | 4.407 | 0.128 |
| Sample Duplicate Result (pCi/L, g, F): | 0.835 | 0.101 |
| Sample Duplicate Result 2 Sigma CSU (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% |

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

Comments:

*5-T
9-19-24*

| 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 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: | | |

| 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: Sample 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: |

MS/MSD



September 06, 2024

Trey Singleton
Southern Company
241 Ralph 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



REPORT OF LABORATORY ANALYSIS

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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

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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 |

REPORT OF LABORATORY ANALYSIS

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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 |

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92748851009 | YAT-YGWA-47 | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| 92748851010 | YAT-YGWA-1I | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92748851011 | YAT-YGWA-1D | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | 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 |
| | | EPA 6010D | DRB | 1 |
| 92748851013 | YAT-UGRD-FB-1 | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| 92748851014 | YAT-UGRD-FD-1 | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| 92748851015 | YAT-YGWA-5D | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92748851016 | YAT-YGWA-17S | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92748851017 | YAT-YGWA-18I | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92748851020 | YAT-UGRD-EB-2 | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92748851021 | YAT-UGRD-FB-2 | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92748851022 | YAT-YGWA-39 | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92748851023 | YAT-YGWA-40 | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92748851024 | YAT-YGWA-18S | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92748851025 | YAT-UGRD-EB-1 | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| | | EPA 6010D | DRB | 1 |

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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

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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

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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

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 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

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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

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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

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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

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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

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

Sample: YAT-YGWA-211 Lab ID: 92748851005 Collected: 08/20/24 16:40 Received: 08/21/24 12:30 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | |

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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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|-----------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

Sample: YAT-YGWA-11 **Lab ID:** 92748851010 Collected: 08/20/24 10:25 Received: 08/21/24 12:30 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|--|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|--|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|-------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|-------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|--|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|-----------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | |

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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 | |

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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 | | | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 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 | |

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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 | 4522969 | | 4522970 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|-------|
| | | 92748202015 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| 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.

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| | | | |
|-------------------------|---|-----------------------|--|
| QC Batch: | 878061 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | 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 |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| | | | |
|-------------------------|---|-----------------------|--|
| QC Batch: | 878071 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | 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 |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 877885 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | 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 | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 92749202001 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.098 | 97 | 97 | 75-125 | 1 | 20 |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521935 | | | | | | | | | | | | 4521936 | |
|--|-------|-----------------------|----------------|-------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|---------|--|
| Parameter | Units | 92749202001 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
| | | | Spike Conc. | MS Conc. | MS Result | MSD Result | | | | | | | |
| 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 | | |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

QC Batch: 877936 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A 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 | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|-------------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MS Result | Spike Conc. | MSD Result | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.093 | 0.094 | 93 | 94 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522330 4522331 | | | | | | | | | | | | |
|--|-------|-----------------------|----------------|----------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
| | | 92748851010 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | |
| 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 | |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 878080 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | 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 | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|
| | | 92749319006 | Spike Conc. | Spike Conc. | Result | | | | | | |
| 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 |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| Parameter | Units | 4523068 | | 4523069 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92749319006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| 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 | | |

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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 | |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| | | | |
|------------------|-----------|-----------------------|--|
| 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: 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 | 4534212 | | 4534213 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | 0.00033 | 0.0025 | 0.0028 | 0.0031 | 99 | 111 | 75-125 | 10 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

QC Batch: 877500 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: 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 | |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| | | | |
|-------------------------|---------------|-----------------------|--|
| QC Batch: | 877828 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| Associated Lab Samples: | 92748851021 | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

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 | |

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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 | |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| | |
|---|--|
| QC Batch: 877309 | Analysis Method: EPA 300.0 Rev 2.1 1993 |
| QC Batch 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 | | MS | | MSD | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|-------------|-------------|--------|--------|-------|-------|--------------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | Result | Result | | | | | | |
| Chloride | mg/L | ND | 50 | 50 | 50 | 49.1 | 52.6 | 98 | 105 | 90-110 | 7 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.5 | 2.5 | 2.6 | 100 | 103 | 90-110 | 3 | 10 | |
| Sulfate | mg/L | ND | 50 | 50 | 50 | 49.1 | 52.6 | 98 | 105 | 90-110 | 7 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518932 4518933

| Parameter | Units | 92748744026 | | MS | | MSD | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|-------------|-------------|--------|--------|-------|-------|--------------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | Result | Result | | | | | | |
| Chloride | mg/L | 14.1 | 50 | 50 | 50 | 63.7 | 67.3 | 99 | 106 | 90-110 | 5 | 10 | |
| Fluoride | mg/L | 0.056J | 2.5 | 2.5 | 2.5 | 2.5 | 2.7 | 96 | 104 | 90-110 | 8 | 10 | |
| Sulfate | mg/L | 0.85J | 50 | 50 | 50 | 50.2 | 53.8 | 99 | 106 | 90-110 | 7 | 10 | |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 877312 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch 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 | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92748876001 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| 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 | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92748776005 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| 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 | | |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 877646 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch 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 | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92749002001 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 49.6 | 50 | 50 | 50 | 96.7 | 99.9 | 94 | 101 | 90-110 | 3 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.5 | 2.6 | 2.7 | 103 | 109 | 90-110 | 6 | 10 | |
| Sulfate | mg/L | 9.0 | 50 | 50 | 50 | 58.1 | 61.0 | 98 | 104 | 90-110 | 5 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521077 4521078

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92748775002 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 17.8 | 50 | 50 | 50 | 67.6 | 69.1 | 100 | 103 | 90-110 | 2 | 10 | |
| Fluoride | mg/L | 2.6 | 2.5 | 2.5 | 2.5 | 4.9 | 5.0 | 93 | 95 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | 76.2 | 50 | 50 | 50 | 116 | 117 | 80 | 82 | 90-110 | 1 | 10 M1 | |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

| | | | |
|-------------------------|---|-----------------------|--------------------------------------|
| QC Batch: | 877651 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch 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 |
| | | | | | | | | | | | | |
| 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 |
| | | | | | | | | | | | | |
| 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 | |

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

QC Batch: 877665 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch 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 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | |
| 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 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | |
| 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 | | |

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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.

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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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient

Pace Project No.: 92748851

Table with 6 columns: Lab ID, Sample ID, QC Batch Method, QC Batch, Analytical Method, Analytical Batch. It lists various sample IDs and their corresponding QC and analytical data.

REPORT OF LABORATORY ANALYSIS

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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 | | |

REPORT OF LABORATORY ANALYSIS

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Pace* Location Requested (City/State):
 Pace Analytical Charlotte
 9800 Kinross 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



Company Name: Southern Company
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingle@southernco.com
 Cc E-Mail: Arcadis contacts

Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates

Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable): GPC82474-0002
 Quote #:

Site Collection info/Facility ID (as applicable):
 YAT Pooled Upgradient

County / State origin of sample(s): Georgia

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

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 (O), 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) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | CI, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 93158920 | Lab Use Only | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|--------------------|--------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | | |
| 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-11 | 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 | |

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.

Collected By:
 Printed Name: (Arcadis) - **KIM LAPSEZYNSKI**
 Signature: (Arcadis) - *[Signature]*

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company (Signature):
[Signature] Arcadis
 Date/Time: 8/21/24 0820
 Relinquished by/Company (Signature):
[Signature] Arcadis
 Date/Time: 8/21/24 1020
 Relinquished by/Company (Signature):
 Ryan Williams / Pace
 Date/Time: 8/21/24 1250

Received by/Company (Signature):
[Signature] Arcadis
 Date/Time: 8/21/24 0820
 Received by/Company (Signature):
 Ryan Williams / Pace
 Date/Time: 8/21/24 1020
 Received by/Company (Signature):
 Ryan / Pace
 Date/Time: 8/21/24 1230

Tracking Number:
 Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other
 Page: of

Pace
 Pace* Location Requested (City/State):
 Pace Analytical Charlotte
 9800 Kinsey Ave., Suite 300, Huntersville, NC 28076

CHAIN-OF-CUSTODY Analytical Request Document
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LAB USE ONLY - Affix Workorder/Login Label Here



Scan QR Code for instructions

Company Name: Southern Company
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingle@southernco.com
 Cc E-Mail: Arcadis contacts

Invoice To:
 Invoice E-Mail:

Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradiant

Purchase Order # (if applicable): GPC82474-0002
 Quote #:

Time Zone Collected: AK PT MT CT ET

County / State origin of sample(s): Georgia

Data Deliverables:
 Level II Level III Level IV
 JEQUIS
 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

** Container Size: (1) 1L (2) 500ml (3) 250ml (4) 125ml (5) 500ml (6) 400ml (7) 500ml (8) 1000ml (9) Other

Identify Container Preservative Type***
 2 1 1 2

*** 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

| | | | |
|-------------------|------------------------|----------------|---------------------|
| App III/IV Metals | C.I.F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/9320 |
|-------------------|------------------------|----------------|---------------------|

Proj. Mgr:
Bonnie Vang
 ActNum / 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 (PI), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SE), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | C.I.F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/9320 | Lab Use Only | Sample Comment | Preservation non-compliance identified for sample |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|---------------------|--------------|----------------|---|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | | | |
| YAT-YGWA-47 | WG | G | 8/20/24 | 1735 | — | — | | 5 | | X | X | X | X | | See Remarks | |
| YAT-YGWA-211 | WG | G | | | | | | 5 | | X | X | X | X | | See Remarks | |
| YAT-YGWA-41 | WG | G | | | | | | 5 | | X | X | X | X | | See Remarks | |
| YAT-YGWA-51 | WG | G | | | | | | 5 | | X | X | X | X | | See Remarks | |
| YAT-YGWA-5D | WG | G | | | | | | 5 | | X | X | X | X | | See Remarks | |
| YAT-YGWA-175 | 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 | |

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

Collected By:
 Printed Name: (Arcadis) **David Prouty**
 Signature: *David Prouty*

Additional Instructions from Pace*:
 # Coolers: _____ Thermometer ID: _____ Correction Factor (°C): _____ Obs. Temp. (°C): _____ Corrected Temp. (°C): _____

Relinquished by/Company: (Signature) *David Prouty*
 Date/Time: 8/20/24 1830
 Relinquished by/Company: (Signature) *David Prouty*
 Date/Time: 8/21/24 1020
 Relinquished by/Company: (Signature) *Wan Williams* / Pace
 Date/Time: 8/21/24 1230

Received by/Company: (Signature) *David Prouty*
 Date/Time: 8/20/24 1830
 Received by/Company: (Signature) *Wan Williams* / Pace
 Date/Time: 8/21/24 1020
 Received by/Company: (Signature) *Wan Williams* / Pace
 Date/Time: 8/21/24 1230

Tracking Number:
 Delivered by: In-Person Courier
 FedEx UPS Other
 Page: _____ of _____


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Pace Location Requested (City/State): Pace Analytical Charlotte
5800 Kinsey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY - Affix Workorder/Login Label Here



Scan QR Code for instructions

| | | |
|---|--|---|
| Company Name: Southern Company Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308 | Contact/Report To: Trey Singleton Phone #: 205.346.3317 E-Mail: rasingle@southernco.com Cc E-Mail: Arcadis contacts | |
| Customer Project #: Task No. YAT-CCR-ASEMT-202452 Project Name: Georgia Power Yates | Invoice To: Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | Purchase Order # (if applicable): GPCB2474-0002 Quote #: | |
| Time Zone Collected: <input type="checkbox"/> JAK <input type="checkbox"/> JPT <input type="checkbox"/> JMT <input type="checkbox"/> JCT <input type="checkbox"/> JET | County / State origin of sample(s): Georgia | |
| Data Deliverables: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input checked="" type="checkbox"/> EQUIS <input type="checkbox"/> Other _____ | Regulatory Program (DW, RCRA, etc.) as applicable: Rush (Pre-approval required): <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 day <input type="checkbox"/> 5 day <input type="checkbox"/> Other _____ Date Results Requested: | DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Analysis: |
| <p>* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Schd (SS), Oil (OL), Wipe (WP), Tissue (TS), Binassy (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk</p> | | |

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res. CL2 | Number & Type of Containers | App III/IV Metals | Cl. F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW/646 0315/0320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------------------|------------------------|----------------|----------------------|----------------|
| | | | Date | Time | Date | Time | | | | | | | |
| YAT-YGWA-30I | WG | G | | | | | | | X | X | X | X | See Remarks |
| YAT-YGWA-14S | WG | G | | | | | | | X | X | X | X | See Remarks |
| YAT-YGWA-39 | WG | G | | | | | | | X | X | X | X | See Remarks |
| YAT-YGWA-40 | WG | G | | | | | | | X | X | X | X | See Remarks |
| YAT-YGWA-1I | WG | G | 8/20/24 | 1025 | — | — | | | X | X | X | X | See Remarks |
| YAT-YGWA-1D | WG | G | 8/20/24 | 1230 | — | — | | | X | X | X | X | See Remarks |
| YAT-YGWA-2I | WG | G | 8/20/24 | 1515 | — | — | | | X | X | X | X | See Remarks |
| YAT-YGWA-3I | WG | G | | | | | | | X | X | X | X | See Remarks |
| YAT-YGWA-3D | WG | G | | | | | | | 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, Ti; 7040A; Hg. | Collected By: Printed Name: (Arcadis) <i>David P. Platt</i> Signature: (Arcadis) <i>[Signature]</i> | Additional Instructions from Pace*: # Coolers: _____ Thermometer ID: _____ Correction Factor (°C): _____ Obs. Temp. (°C) _____ Corrected Temp. (°C) _____ |
| Relinquished by/Company: (Signature) <i>[Signature]</i> Date/Time: 8/20/24 1830 | Received by/Company: (Signature) <i>[Signature]</i> Date/Time: 8/20/24 1830 | Tracking Number: _____ |
| Relinquished by/Company: (Signature) <i>[Signature]</i> Date/Time: 8/21/24 1020 | Received by/Company: (Signature) <i>[Signature]</i> Date/Time: 8/21/24 1020 | Delivered by: <input type="checkbox"/> In-Person <input type="checkbox"/> Courier <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Other |
| Relinquished by/Company: (Signature) <i>[Signature]</i> Date/Time: 8/21/24 1230 | Received by/Company: (Signature) <i>[Signature]</i> Date/Time: 8/21/24 | Page: _____ of _____ |

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ENV-FRM-CORQ-0019_v01_082123 ©

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

CHAIN-OF-CUSTODY Analytical Request Document
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Scan QR Code for instructions

Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Contact/Report To: Trey Singleton
Phone #: 205.546.3317
E-Mail: tresingle@southernco.com
Cc E-Mail: Arcadis contacts
Customer Project #: Task No. YAT-CCR-ASSMT-202452
Project Name: Georgia Power Yates
Invoice To:
Invoice E-Mail:
Site Collection info/Facility ID (as applicable):
YAT Pooled Upgradient
Purchase Order # (if applicable): GPC62474-0002
Quote #:
Time Zone Collected: [] AK [] MT [] MT [] CT [] ET
County / State origin of sample(s): Georgia

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

Data Deliverables:
[X] Level II [] Level III [] Level IV
[X] EQUIS
[] Other _____
Regulatory Program (D.W., RCRA, etc.) as applicable:
Rush (Pre-approval required):
[] 2 Day [] 3 day [] 5 day [] Other _____
Date Results Requested: _____
D.W. 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) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl. F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW/WW 9315/9320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|---------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| 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, Ti, 7040A: Hg.

Collected By: David Proarty
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: 8/20/24 1830
Received by/Company: (Signature) _____ Date/Time: 8/20/24 1830
Tracking Number: _____

Relinquished by/Company: (Signature) _____ Date/Time: 8/21/24 1020
Received by/Company: (Signature) _____ Date/Time: 8/21/24 1020
Delivered by: [] In-Person [] Courier

Relinquished by/Company: (Signature) _____ Date/Time: 8/21/24 1230
Received by/Company: (Signature) _____ Date/Time: 8/21/24 1230
[] 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 Pace* Location Requested (City/State): Pace Analytical Charlotte
3600 Kinsey 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 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308 | | Contact/Report To: Trey Singleton Phone #: 205.346.3317 E-Mail: trosingle@southernco.com Cc E-Mail: Arcadis contacts | |
| Customer Project #: Task No. YAT-CCR-ASSMT-202452 Project Name: Georgia Power Yates | | Invoice To: Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): GPCB2474-0002 Quote #: | |
| Time Zone Collected: <input type="checkbox"/> AK <input type="checkbox"/> PT <input type="checkbox"/> MT <input type="checkbox"/> CT <input checked="" type="checkbox"/> ET | | County / State origin of sample(s): Georgia | |
| Date Deliverables: <input checked="" type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input checked="" type="checkbox"/> EQUIS <input type="checkbox"/> Other: | | Regulatory Program (DW, RCRA, etc.) as applicable: Rush (Pre-approval required): <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 day <input type="checkbox"/> 5 day <input type="checkbox"/> 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 (SE), Sludge (SL), Caulk | | DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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) Hg/SD4, (8) Sed. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other | |
| | | Lab Use Only Proj. Mgr: Bonnie Vang Account / Client ID: Table #: Profile / Template: 16561 Prelog / Bottle Ord. ID: | |
| | | App III/IV Metals Cl. F. SD4 (EPA 300.0) TDS (SM 2540C) RAD SW846 9018/6320 | |
| | | Lab Use Only Preservative non-conformance identified for sample. | |
| | | Sample Comment | |
| Customer Sample ID | | Matrix * Comp / Grab | |
| Collected (or Composite Start) Date Time | | Composite End Date Time | |
| Res. CL2 | | Number & Type of Containers Plastic Glass | |
| YAT-YGWA-47 | | WG G | |
| YAT-YGWA-21I | | WG G | |
| YAT-YGWA-4I | | WG G | |
| YAT-YGWA-5I | | WG G | |
| YAT-YGWA-5D | | WG G 8/20/24 0957 | |
| YAT-YGWA-17S | | WG G 8/20/24 1245 | |
| YAT-YGWA-18S | | WG G | |
| YAT-YGWA-18I | | WG G 8/20/24 1422 | |
| YAT-YGWA-20S | | WG G | |
| 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 | | Collected By: Printed Name: (Arcadis) Jessica Ware Signature: (Arcadis) <i>Jessica Ware</i> | |
| Relinquished by/Company: (Signature) <i>Jessica Ware / Arcadis</i> | | Received by/Company: (Signature) Gyan Williams / Pace | |
| Relinquished by/Company: (Signature) Gyan Williams / Pace | | Received by/Company: (Signature) MW Pace | |
| Relinquished by/Company: (Signature) | | Received by/Company: (Signature) | |
| Relinquished by/Company: (Signature) | | Received by/Company: (Signature) | |
| Date/Time: 8/21/24 1020 | | Date/Time: 8/21/24 1020 | |
| Date/Time: 8/21/24 1230 | | Date/Time: 8/21/24 1235 | |
| Date/Time: | | Date/Time: | |
| Date/Time: | | Date/Time: | |
| Tracking Number: | | Delivered by: <input checked="" type="checkbox"/> In-Person <input type="checkbox"/> Courier <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> 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 ©



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: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

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

Date/Initials Person Examining Contents: MS

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

WO#: 92748851

Project #

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

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) | 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 Sterilization vials (N/A) | nc011,40 mL Amber Unpreserved vial (N/A) |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|
| 1 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 2 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 3 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 4 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 5 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 6 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 7 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 8 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 9 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 10 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 11 | / | / | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 12 | / | / | / | 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 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) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL Plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (pH) | 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) | VG5T-40 mL VOA Na2S2O3 (N/A) | VG5U-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 (N/A-2)2504 (3.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation Vials (N/A) | 10001-40 mL Amber Unpreserved vial (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| CC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 1 | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 1 | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 1 | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 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.

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
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
 Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates
 Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradient

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingl@southernco.com
 Cc E-Mail: Arcadis contacts
 Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable): GPC82474-0002
 Quote #:

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

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:

| | | | |
|-------------------|------------------------|----------------|--------------------|
| App III/IV Metals | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 83158320 |
|-------------------|------------------------|----------------|--------------------|

Proj. Mgr:
Bonnie Yang
 AcctNum / Client ID:
 Table #:
 Profile / Template:
16561
 Pregl / 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) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 83158320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|--------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| YAT-UGRD-EB-1 | WG | G | | | | | | 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, Ti; 7040A: Hg.

Collected By:
 Printed Name: (Arcadis) Jessica Wave
 Signature: (Arcadis) *Jessica Wave*

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature) *[Signature]* / Arcadis
 Date/Time: 8/21/24 1020
 Relinquished by/Company: (Signature) *[Signature]* / Pace
 Date/Time: 8/21/24 1230
 Relinquished by/Company: (Signature)
 Date/Time:

Received by/Company: (Signature) *[Signature]* / Pace
 Date/Time: 8/21/24 1020
 Received by/Company: (Signature) *[Signature]* / Pace
 Date/Time: 8/21/24 1230
 Received by/Company: (Signature)
 Date/Time:

Tracking Number:
 Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other
 Page: of

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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.

Project #

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

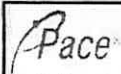
Client: Southern Comp Profile/EZ (Circle one) 1656 Notes

| 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 (pH) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG3U-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) | VJGK (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) | AG6U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|
| CC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 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 Kincaid 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
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
 Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates
 Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgrade

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingl@southernco.com
 Cc E-Mail: Arcadis contacts
 Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable): GPC82474-0002
 Quote #:
 Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET
 County / State origin of sample(s): Georgia

| | | | | | | | | | | | | | | | |
|---|---|---|---|--|--|--|--|--|--|---|--|--|--|--|--|
| Specify Container Size ** | | | | | | | | | | **Container Size: (1) 1L, (2) 500ml, (3) 250ml, (4) 125ml, (5) 100ml, (6) 60ml vial, (7) EnCore, (8) TerraCore, (9) Other | | | | | |
| 3 | 3 | 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 | | | | |
| Identify Container Preservative Type*** | | | | | | | | | | Analysis Requested | | | | | |
| 2 | 1 | 1 | 2 | | | | | | | | | | | | |

Data Deliverables:
 Level II Level III Level IV
 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:

| | | |
|--------------|-------------------------------------|---|
| Lab Use Only | Prop. Mgr: Bonnie Vang | Preservation non-conformance identified for sample. |
| | 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) | | Composite End | | Res. CLZ | Number & Type of Containers | | App III/IV Metals | Cl. F. S04 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/0320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|---------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| YAT-YGWA-30I | WG | G | | | | | | 5 | | X | X | X | X | See Remarks |
| YAT-YGWA-145 | 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, Ti; 7040A: Hg

Collected By: *David Proutz*
 Printed Name: (Arcadis) *David Proutz*
 Signature: (Arcadis) *David Proutz*
 Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

| | | | | |
|---|----------------------------|---|----------------------------|--|
| Relinquished by/Company: (Signature) <i>David Proutz / Arcadis</i> | Date/Time: 8/22/24 0925 | Received by/Company: (Signature) <i>Ryan Williams / Pace</i> | Date/Time: 8/22/24 0925 | Tracking Number: |
| Relinquished by/Company: (Signature) <i>Ryan Williams / Pace</i> | Date/Time: 8/22/24 1215 | Received by/Company: (Signature) <i>Charles Hawks</i> | 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: | Page: of |

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
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
 Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates
 Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradient

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingle@southernco.com
 Cc E-Mail: Arcadis contacts
 Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable): GFC82474-0002
 Quote #:
 County / State origin of sample(s): Georgia

| | | | | | | | | | | |
|---|---|---|---|--|--|--|--|--|--|--|
| Specify Container Size ** | | | | | | | | | | ** Container Size: (1) 31, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other |
| 3 | 3 | 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 |
| Identify Container Preservative Type*** | | | | | | | | | | |
| 2 | 1 | 1 | 2 | | | | | | | Analysis Requested |

Time Zone Collected: AK PT MT CT ET
 Data Deliverables:
 Level II Level III Level IV
 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:

| | | | |
|-------------------|----------------------|----------------|----------------------|
| App III/IV Metals | CLF, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 93.15/8320 |
|-------------------|----------------------|----------------|----------------------|

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 (WF), Tissue (TS), Bioassay (B), Vapor (V), Other (O), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | CLF, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 93.15/8320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|----------------------|----------------|----------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| YAT-YGWA-47 | WG | G | | | | | | 5 | | X | X | X | X | See Remarks |
| YAT-YGWA-211 | WG | G | | | | | | 5 | | X | X | X | X | See Remarks |
| YAT-YGWA-41 | WG | G | | | | | | 5 | | X | X | X | X | See Remarks |
| YAT-YGWA-51 | 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, Ti; 7040A: Hg

Collected By: *David Procuty*
 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): *[Signature]*
 Date/Time: 8/22/24 0925
 Relinquished by Company (Signature): *[Signature]*
 Date/Time: 8/22/24 1215
 Relinquished by Company (Signature):
 Date/Time:

Received by Company (Signature): *[Signature]*
 Date/Time: 8/22/24 0925
 Received by Company (Signature): *[Signature]*
 Date/Time: 8/22/24 1245
 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/>



DO#_TIC: ENVIRONMENT 6000 700_Samples

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GIA Power Project #:

Courier: Commercial Pace FedEx UPS USPS Other: Client

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

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

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



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 #

Empty box for 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) | BP3B-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 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 2 | / | 1 | 1 | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 3 | / | 1 | 1 | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 4 | / | 1 | 1 | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 5 | / | 1 | 1 | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 6 | / | 1 | 1 | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 7 | / | 1 | 1 | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 8 | / | 1 | 1 | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 9 | / | 1 | 1 | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 10 | / | 1 | 1 | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 11 | / | 1 | 1 | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 12 | / | 1 | 1 | 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) | 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 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 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.

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 |

Data Review Report

| 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.

Data Review Report

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:

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

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.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(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-11 / 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-11 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 Kinross 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



Company Name: Southern Company
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingle@southernco.com
 Cc E-Mail: Arcadis contacts

Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates

Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable): GPC82474-0002
 Quote #:

Site Collection info/Facility ID (as applicable):
 YAT Pooled Upgradient

County / State origin of sample(s): Georgia

Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET
 Data Deliverable:
 [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:
 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) 2n 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 (O), 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) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | CI, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 93158920 | Proj. Mgr: | Acetnum / Client ID: | Table #: | Profile / Template: | Prelog / Bottle Ord. ID: | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|--------------------|------------|----------------------|----------|---------------------|--------------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | | | | | | |
| YAT-YGWA-301 | WG | G | 8/20/24 | 1737 | — | — | | 5 | X | X | X | X | | | | | | | See Remarks |
| YAT-YGWA-145 | 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-11 | 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 |

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.

Collected By:
 Printed Name: (Arcadis) - KIM LAPSEZYNSKI
 Signature: (Arcadis) - *[Signature]*

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company (Signature): *[Signature]*
 Date/Time: 8/21/24 0820
 Relinquished by/Company (Signature): *[Signature]*
 Date/Time: 8/21/24 1020
 Relinquished by/Company (Signature): Ryan Williams / Pace
 Date/Time: 8/21/24 1250

Received by/Company (Signature): *[Signature]*
 Date/Time: 8/21/24 0820
 Received by/Company (Signature): *[Signature]*
 Date/Time: 8/21/24 1020
 Received by/Company (Signature): *[Signature]*
 Date/Time: 8/21/24 1230

Tracking Number:
 Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other
 Page: of

Pace
 Pace* Location Requested (City/State):
 Pace Analytical Charlotte
 9800 Kinsey Ave., Suite 300, Huntersville, NC 28076

CHAIN-OF-CUSTODY Analytical Request Document
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Scan QR Code for instructions

Company Name: Southern Company
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingle@southernco.com
 Cc E-Mail: Arcadis contacts

Invoice To:
 Invoice E-Mail:

Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradation

Purchase Order # (if applicable): GPC82474-0002
 Quote #:

Time Zone Collected: AK PT MT CT ET

County / State origin of sample(s): Georgia

Data Deliverables:
 Level II Level III Level IV
 JEQUIS
 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

** Container Size: (1) 1L (2) 500ml (3) 250ml (4) 125ml (5) 500ml (6) 400ml (7) 500ml (8) 1000ml (9) Other

Identify Container Preservative Type***
 2 1 1 2

*** 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

| | | | |
|-------------------|------------------------|----------------|---------------------|
| App III/IV Metals | C.I.F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/9320 |
|-------------------|------------------------|----------------|---------------------|

Proj. Mgr:
Bonnie Vang
 ActNum / 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 (PI), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SE), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | C.I.F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/9320 | Sample Comment | Preservation non-compliance identified for sample |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|---------------------|----------------|---|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | | |
| YAT-YGWA-47 | WG | G | 8/20/24 | 1735 | — | — | | 5 | | X | X | X | X | See Remarks | |
| YAT-YGWA-211 | WG | G | | | | | | 5 | | X | X | X | X | See Remarks | |
| YAT-YGWA-41 | WG | G | | | | | | 5 | | X | X | X | X | See Remarks | |
| YAT-YGWA-51 | WG | G | | | | | | 5 | | X | X | X | X | See Remarks | |
| YAT-YGWA-5D | WG | G | | | | | | 5 | | X | X | X | X | See Remarks | |
| YAT-YGWA-175 | 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 | |

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

Collected By:
 Printed Name: (Arcadis) **David Prouty**
 Signature: *David Prouty*

Additional Instructions from Pace*:
 # Coolers: _____ Thermometer ID: _____ Correction Factor (°C): _____ Obs. Temp. (°C): _____ Corrected Temp. (°C): _____

Relinquished by/Company: (Signature) *[Signature]*
 Date/Time: 8/20/24 1830
 Relinquished by/Company: (Signature) *[Signature]*
 Date/Time: 8/21/24 1020
 Relinquished by/Company: (Signature) *[Signature]*
 Date/Time: 8/21/24 1230

Received by/Company: (Signature) *[Signature]*
 Date/Time: 8/20/24 1830
 Received by/Company: (Signature) *[Signature]*
 Date/Time: 8/21/24 1020
 Received by/Company: (Signature) *[Signature]*
 Date/Time: 8/21/24 1230

Tracking Number:
 Delivered by: In-Person Courier
 FedEx UPS Other

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

CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields.

Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Contact/Report To: Trey Singleton
Phone #: 205.546.3317
E-Mail: tresingle@southernco.com
Cc E-Mail: Arcadis contacts
Customer Project #: Task No. YAT-CCR-ASSMT-202452
Project Name: Georgia Power Yates
Invoice To:
Invoice E-Mail:
Site Collection info/Facility ID (as applicable):
YAT Pooled Upgradient
Purchase Order # (if applicable): GPC62474-0002
Quote #:
Time Zone Collected: [] AK [] MT [] MT [] CT [] ET
County / State origin of sample(s): Georgia

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Scan QR Code for instructions

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

Data Deliverables:
[X] Level II [] Level III [] Level IV
[X] EQUIS
[] Other _____
Regulatory Program (DWR, RCRA, etc.) as applicable:
Rush (Pre-approval required):
[] 2 Day [] 3 day [] 5 day [] Other _____
Date Results Requested: _____
DWR 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) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl. F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW/WW 9315/9320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|---------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| 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, Ti, 7040A: Hg.

Collected By: David Proarty
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) *Trey Singleton* Date/Time: 8/20/24 1830
Received by/Company: (Signature) *Geoffrey Jones / Arcadis* Date/Time: 8/20/24 1830
Tracking Number:

Relinquished by/Company: (Signature) *Geoffrey Jones / Arcadis* Date/Time: 8/21/24 1020
Received by/Company: (Signature) *Lyan Williams / Pace* Date/Time: 8/21/24 1020
Delivered by: [] In-Person [] Courier

Relinquished by/Company: (Signature) *Lyan Williams / Pace* Date/Time: 8/21/24 1230
Received by/Company: (Signature) *Maw/Rice* Date/Time: 8/21/24 1230
[] 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 Pace* Location Requested (City/State): Pace Analytical Charlotte
3600 Kinsey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

| | | | |
|---|--|--|--|
| Company Name: Southern Company Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308 | | Contact/Report To: Trey Singleton Phone #: 205.346.3317 E-Mail: trosingle@southernco.com Cc E-Mail: Arcadis contacts | |
| Customer Project #: Task No. YAT-CCR-ASSMT-202452 Project Name: Georgia Power Yates | | Invoice To: Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): GPCB2474-0002 Quote #: | |
| Time Zone Collected: <input type="checkbox"/> AK <input type="checkbox"/> PT <input type="checkbox"/> MT <input type="checkbox"/> CT <input checked="" type="checkbox"/> ET | | County / State origin of sample(s): Georgia | |
| Date Deliverables: <input checked="" type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input checked="" type="checkbox"/> EQUIS <input type="checkbox"/> Other: | | Regulatory Program (DW, RCRA, etc.) as applicable: Rush (Pre-approval required): <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 day <input type="checkbox"/> 5 day <input type="checkbox"/> 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 (SE), Sludge (SL), Caulk | | DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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) Hg/SD4, (8) Sed. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other | |
| | | Lab Use Only Proj. Mgr: Bonnie Vang Acctnum / Client ID: Table #: Profile / Template: 16561 Preiog / Bottle Ord. ID: | |
| | | App III/IV Metals Cl F, SO4 (EPA 300.0) TDS (SM 2540C) RAD SW846 9018/6320 | |
| | | Lab Use Only Preservative non-conformance identified for sample. | |
| | | Sample Comment | |
| Customer Sample ID | | Matrix * Comp / Grab | |
| Collected (or Composite Start) Date Time | | Composite End Date Time | |
| Res. CL2 | | Number & Type of Containers Plastic Glass | |
| YAT-YGWA-47 | | WG G | |
| YAT-YGWA-21I | | WG G | |
| YAT-YGWA-4I | | WG G | |
| YAT-YGWA-5I | | WG G | |
| YAT-YGWA-5D | | WG G 8/20/24 0957 | |
| YAT-YGWA-17S | | WG G 8/20/24 1245 | |
| YAT-YGWA-18S | | WG G | |
| YAT-YGWA-18I | | WG G 8/20/24 1422 | |
| YAT-YGWA-20S | | WG G | |
| 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 | | Collected By: Printed Name: (Arcadis) Jessica Ware Signature: (Arcadis) <i>Jessica Ware</i> | |
| Relinquished by/Company: (Signature) <i>Jessica Ware / Arcadis</i> | | Relinquished by/Company: (Signature) <i>Gyan Williams / Pace</i> | |
| Date/Time: 8/21/24 1020 | | Date/Time: 8/21/24 1230 | |
| Relinquished by/Company: (Signature) <i>Gyan Williams / Pace</i> | | Relinquished by/Company: (Signature) <i>Jessica Ware</i> | |
| Date/Time: 8/21/24 1020 | | Date/Time: 8/21/24 1230 | |
| Relinquished by/Company: (Signature) | | Relinquished by/Company: (Signature) | |
| Date/Time: | | Date/Time: | |
| Relinquished by/Company: (Signature) | | Relinquished by/Company: (Signature) | |
| Date/Time: | | Date/Time: | |
| # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) | | Tracking Number: | |
| Delivered by: <input checked="" type="checkbox"/> In-Person <input type="checkbox"/> Courier | | [] FedEx [] UPS [] Other | |
| Page: of | | 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/>

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Scan QR Code for instructions

Company Name: Southern Company
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
 Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates
 Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradient

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingl@southernco.com
 Cc E-Mail: Arcadis contacts
 Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable): GPC82474-0002
 Quote #:

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

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:

| | | | |
|-------------------|------------------------|----------------|--------------------|
| App III/IV Metals | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 83158320 |
|-------------------|------------------------|----------------|--------------------|

Proj. Mgr:
Bonnie Yang
 AcctNum / Client ID:
 Table #:
 Profile / Template:
16561
 Pregol / 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) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 83158320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|--------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| YAT-UGRD-EB-1 | WG | G | | | | | | 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, Ti; 7040A: Hg.

Collected By:
 Printed Name: (Arcadis) Jessica Wave
 Signature: (Arcadis) *Jessica Wave*

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

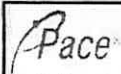
Relinquished by/Company: (Signature) *[Signature]* / Arcadis
 Date/Time: 8/21/24 1020
 Relinquished by/Company: (Signature) *[Signature]* / Pace
 Date/Time: 8/21/24 1230

Received by/Company: (Signature) *[Signature]* / Pace
 Date/Time: 8/21/24 1020
 Received by/Company: (Signature) *[Signature]* / Pace
 Date/Time: 8/21/24 1230

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 Kinsey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here



92748851

Scan QR Code for instructions

Company Name: Southern Company
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
 Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates
 Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgrade

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingl@southernco.com
 Cc E-Mail: Arcadis contacts
 Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable): GPC82474-0002
 Quote #:
 Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET
 County / State origin of sample(s): Georgia

| | | | | | | | | | | | | | | | |
|---|---|---|---|--|--|--|--|--|--|---|--|--|--|--|--|
| Specify Container Size ** | | | | | | | | | | **Container Size: (1) 1L, (2) 500ml, (3) 250ml, (4) 125ml, (5) 100ml, (6) 60ml vial, (7) EnCore, (8) TerraCore, (9) Other | | | | | |
| 3 | 3 | 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 | | | | |
| Identify Container Preservative Type*** | | | | | | | | | | Analysis Requested | | | | | |
| 2 | 1 | 1 | 2 | | | | | | | | | | | | |

Data Deliverables:
 Level II Level III Level IV
 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:

| | | |
|--------------|-------------------------------------|---|
| Lab Use Only | Prop. Mgr: Bonnie Vang | Preservation non-conformance identified for sample. |
| | 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) | | Composite End | | Res. CLZ | Number & Type of Containers | | App III/IV Metals | Cl. F. S04 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/0320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|---------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| YAT-YGWA-30I | WG | G | | | | | | 5 | | X | X | X | X | See Remarks |
| YAT-YGWA-145 | 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, Ti; 7040A: Hg

Collected By: David Proutz
 Printed Name: (Arcadis) David Proutz
 Signature: (Arcadis) David Proutz
 Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

| | | | | |
|---|----------------------------|---|----------------------------|--|
| Relinquished by/Company: (Signature) <i>David Proutz / Arcadis</i> | Date/Time: 8/22/24 0925 | Received by/Company: (Signature) <i>Ryan Williams / Pace</i> | Date/Time: 8/22/24 0925 | Tracking Number: |
| Relinquished by/Company: (Signature) <i>Ryan Williams / Pace</i> | Date/Time: 8/22/24 1215 | Received by/Company: (Signature) <i>Charles Hawks</i> | 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: | Page: of |

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
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
 Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates
 Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradient

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: trosingle@southernco.com
 Cc E-Mail: Arcadis contacts
 Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable): GFC82474-0002
 Quote #:
 County / State origin of sample(s): Georgia

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Specify Container Size ** | | | | | | | | | | ** Container Size: (1) 31, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other | | | | | | | | | |
| 3 | 3 | 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 | | | | | | | | | |
| Identify Container Preservative Type*** | | | | | | | | | | Analysis Requested | | | | | | | | | |
| 2 | 1 | 1 | 2 | | | | | | | | | | | | | | | | |

Time Zone Collected: AK PT MT CT ET
 Data Deliverables:
 Level II Level III Level IV
 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:

App III/IV Metals
 Cl, F, SO4 (EPA 300.0)
 TDS (SM 2540C)
 RAD SW846 93.15/8320

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 (WF), Tissue (TS), Bioassay (B), Vapor (V), Other (O), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 93.15/8320 | | | | | | | Sample Comment | |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|----------------------|--|--|--|--|--|--|----------------|-------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | | | | | | | | |
| YAT-YGWA-47 | WG | G | | | | | | 5 | | X | X | X | X | | | | | | | | See Remarks |
| YAT-YGWA-211 | WG | G | | | | | | 5 | | X | X | X | X | | | | | | | | See Remarks |
| YAT-YGWA-41 | WG | G | | | | | | 5 | | X | X | X | X | | | | | | | | See Remarks |
| YAT-YGWA-51 | 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, Ti; 7040A: Hg

Collected By: *David Procuty*
 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)
[Signature] / Arcadis
 Date/Time: 8/22/24 0925
 Relinquished by/Company: (Signature)
Ryan Williams / Pace
 Date/Time: 8/22/24 1215

Received by/Company: (Signature)
[Signature] / Pace
 Date/Time: 8/22/24 0925
 Received by/Company: (Signature)
[Signature]
 Date/Time: 8/22/24 1245

Tracking Number:
 Delivered by: In-Person Courier
 FedEx UPS Other
 Page: of



Pace* Location Requested (City/State):
 Pace Analytical Charlotte
 9800 Kinney 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
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
 Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates
 Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradient

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingle@southernco.com
 Cc E-Mail: Arcadis contacts
 Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable): GPCB2474-0002
 Quote #:
 County / State origin of sample(s): Georgia

| Specify Container Size ** | | | | | | | | | | **Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other |
|---|---|---|---|--|--|--|--|--|--|---|
| 3 | 3 | 2 | 1 | | | | | | | *** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) 50d Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other |
| Identify Container Preservative Type*** | | | | | | | | | | |
| 2 | 1 | 1 | 2 | | | | | | | Analysis Requested |

Time Zone Collected: AK PT MT CT ET
 Data Deliverables:
 Level II Level III Level IV
 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

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl. F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/6320 | Sample Comment | Preservation non-conformance identified for sample. |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|---------------------|----------------|---|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | | |
| 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-JGRD-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, Ti; 7040A: Hg

Collected By: *David Probst*
 Printed Name: (Arcadis) *David Probst*
 Signature: (Arcadis) *David Probst*

Additional Instructions from Pace*:
 # Coolers: _____ Thermometer ID: _____ Correction Factor (°C): _____ Obs. Temp. (°C): _____ Corrected Temp. (°C): _____

Relinquished by/Company: (Signature) *[Signature]*
 Date/Time: 8/22/24 0925
 Relinquished by/Company: (Signature) *Ryan Williams / Pace*
 Date/Time: 8/22/24 1215
 Relinquished by/Company: (Signature) _____
 Date/Time: _____

Received by/Company: (Signature) *Ryan Williams / Pace*
 Date/Time: 8/22/24 0925
 Received by/Company: (Signature) *[Signature]*
 Date/Time: 8/22/24 1215
 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 ©

| 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



September 23, 2024

Trey Singleton
Southern Company
241 Ralph 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@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



REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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



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 |

REPORT OF LABORATORY ANALYSIS

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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

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs

Pace Project No.: 92748880

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------|--------------------------|----------|-------------------|------------|
| 92748880015 | YAT-YGWA-5D | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92748880016 | YAT-YGWA-17S | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92748880017 | YAT-YGWA-18I | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92748880019 | YAT-UGRD-FD-1 | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92748880020 | YAT-UGRD-EB-2 | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92748880021 | YAT-UGRD-FB-2 | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92748880022 | YAT-YGWA-39 | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92748880023 | YAT-YGWA-40 | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92748880024 | YAT-YGWA-18S | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92748880025 | YAT-UGRD-EB-1 | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92748880026 | YAT-UGRD-FD-2 | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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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

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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 | |

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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-11 | | | | | |
| 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 | |

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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

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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) | pCi/L | | 09/16/24 08:00 | |
| EPA 9320 | Radium-228 | C:79% T:NA 0.477U ± 0.302 (0.553) | pCi/L | | 09/11/24 14:23 | |
| Total Radium Calculation | Total Radium | C:87% T:90% 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) | pCi/L | | 09/16/24 08:00 | |
| EPA 9320 | Radium-228 | C:79% T:NA 0.393U ± 0.311 (0.610) | pCi/L | | 09/11/24 14:23 | |
| Total Radium Calculation | Total Radium | C:81% T:92% 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) | pCi/L | | 09/16/24 08:00 | |
| EPA 9320 | Radium-228 | C:84% T:NA 0.625U ± 0.399 (0.749) | pCi/L | | 09/11/24 14:23 | |
| Total Radium Calculation | Total Radium | C:78% T:84% 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) | pCi/L | | 09/13/24 15:20 | |
| EPA 9320 | Radium-228 | C:97% T:NA 0.943 ± 0.504 (0.918) | pCi/L | | 09/11/24 14:23 | |
| Total Radium Calculation | Total Radium | C:75% T:88% 1.52 ± 0.798 (1.37) | pCi/L | | 09/16/24 16:11 | |

REPORT OF LABORATORY ANALYSIS

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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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs

Pace Project No.: 92748880

Sample: YAT-YGWA-301 **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

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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

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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 | |

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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 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs

Pace Project No.: 92748880

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: YAT-YGWA-211 Lab ID: 92748880005 Collected: 08/20/24 16:40 Received: 08/21/24 10:20 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| 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 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs

Pace Project No.: 92748880

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|---------------------------------------|---|-------|----------------|------------|------|
| 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: | | | | | | |
| | 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 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs

Pace Project No.: 92748880

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|---------------------------------------|---|-------|----------------|------------|------|
| 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: | | | | | | |
| | 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 | |

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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 | |

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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 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs

Pace Project No.: 92748880

Sample: YAT-YGWA-11 **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 | |

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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 | |

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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 | |

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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 | |

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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 | |

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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 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs

Pace Project No.: 92748880

Sample: YAT-YGWA-181 **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 | |

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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 | |

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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 | |

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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 | |

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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 | |

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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 | |

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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 | |

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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

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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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs

Pace Project No.: 92748880

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 693372 | Analysis Method: | EPA 9315 |
| QC Batch 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

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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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs

Pace Project No.: 92748880

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 691960 | Analysis Method: | EPA 9320 |
| QC Batch 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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs

Pace Project No.: 92748880

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 691962 | Analysis Method: | EPA 9320 |
| QC Batch 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.

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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

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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.

REPORT OF LABORATORY ANALYSIS

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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

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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 | | |

REPORT OF LABORATORY ANALYSIS

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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

Company Name: Southern Company
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Contact/Report To: Trey Singletton
 Phone #: 205.346.3317
 E-Mail: rosingie@southernco.com
 Cc E-Mail: Arcadis contacts

Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates

Invoice To:
 Invoice E-Mail:

Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradient

Purchase Order # (if applicable): GPCB2474-0002
 Quote #:

WO# : 92748880



92748880

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 (OI), 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) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | C, F, SO4 (EPA 300.0) | TDS (SM/2540C) | RAD SW/646 9315/6520 | Proj. Mgr: | AcctNum / Client ID: | Table #: | Profile / Template: | Prelog / Bottle Ord. ID: | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|-----------------------|----------------|----------------------|-------------|----------------------|----------|---------------------|--------------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | | | | | | |
| YAT-YGWA-30I | WG | G | 8/20/24 | 1737 | — | — | | 5 | X | X | X | X | | Bonnie Vang | | | 16561 | | 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 |

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.

Collected By:
 Printed Name: (Arcadis) - KIM LAPCZYNSKI
 Signature: (Arcadis) *[Signature]*

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company (Signature): *[Signature]* Arcadis
 Date/Time: 8/21/24 0820

Relinquished by/Company (Signature): *[Signature]* Arcadis
 Date/Time: 8/21/24 1020

Relinquished by/Company (Signature): Ryan Williams / POU
 Date/Time: 8/21/24 1250

Received by/Company (Signature): *[Signature]* Arcadis
 Date/Time: 8/21/24 0820

Received by/Company (Signature): Ryan Williams / POU
 Date/Time: 8/21/24 1020

Received by/Company (Signature): *[Signature]* POU / Pace
 Date/Time: 8/21/24 1230

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

CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody Is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Contact/Report To: Trey Singleton
Phone #: 205.346.3317
E-Mail: rosingle@southernco.com
Cc E-Mail: Arcadis contacts

Customer Project #: Task No. YAT-CCR-ASSMT-202452
Project Name: Georgia Power Yates
Invoice To:
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 ET
County / State origin of sample(s): Georgia

Data Deliverables:
 Level II Level III Level IV
 EQU/S
 Other

Regulatory Program (DW, RCRA, etc.) as applicable:
Rush (Pre-approval required):
 2 Day 3 day 5 day Other
Date Results Requested:
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.

LAB USE ONLY - Affix Workorder/Login Label Here



Scan QR Code for Instructions

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, (7) For Core, (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

Prof. Mgr:
Bismale Vang
AcctNum / Client ID:
Table #:
Profile / Template:
16561
Prelog / Bottle Ord. ID:

Lab Use Only
Preservation non-compliance identified for sample

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl.F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9316/6320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|-----------------------|----------------|---------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| YAT-YGWA-47 | WG | G | 8/20/24 | 1735 | — | — | | 5 | X | X | X | X | | See Remarks |
| YAT-YGWA-211 | WG | G | | | | | | 5 | X | X | X | X | | See Remarks |
| YAT-YGWA-41 | WG | G | | | | | | 5 | X | X | X | X | | See Remarks |
| YAT-YGWA-51 | WG | G | | | | | | 5 | X | X | X | X | | See Remarks |
| YAT-YGWA-5D | WG | G | | | | | | 5 | X | X | X | X | | See Remarks |
| YAT-YGWA-175 | WG | G | | | | | | 5 | X | X | X | X | | See Remarks |
| YAT-YGWA-185 | WG | G | | | | | | 5 | X | X | X | X | | See Remarks |
| YAT-YGWA-181 | WG | G | | | | | | 5 | X | X | X | X | | See Remarks |
| YAT-YGWA-205 | 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, Ti; 7040A: Hg

Collected By: David Prouty
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: 8/20/24 1830
Relinquished by/Company: (Signature) Date/Time: 8/21/24 1020
Relinquished by/Company: (Signature) Date/Time: 8/21/24 1230

Received by/Company: (Signature) Date/Time: 8/20/24 1930
Received by/Company: (Signature) Date/Time: 8/21/24 1020
Received by/Company: (Signature) Date/Time: 8/21/24 1230

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 Pace* Location Requested (City/State): Pace Analytical Charlotte
 8800 Kinsey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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

Company Name: Southern Company
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Customer Project #: Task No. YAT-CCR-AS5MT-2024S2
 Project Name: Georgia Power Yates

Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradient

Time Zone Collected: AK PT MT CT ET

Data Deliverables:
 Level II Level III Level IV
 EQUIS
 Other _____

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: trosingle@southernco.com
 Cc E-Mail: Arcadis contacts

Invoice To:
 Invoice E-Mail:


Purchase Order # (if applicable): GPC82474-0002
 Quote #:

County / State origin of sample(s): Georgia

Regulatory Program (DW, RCRA, etc.) as applicable:
 Rush (Pre-approval required):
 7 Day 3 day 5 day Other _____

Date Results Requested:
 Field Filtered (if applicable): Yes No
 Analysis:

LAB USE ONLY- Affix Workorder/Login Label Here



Scan QR Code for instructions

Specify Container Size **
 3 3 2 1

Identify Container Preservative Type***
 2 1 1 2

Analysis Requested

App III/IV Metals
 Cl. F. SO4 (EPA 300.0)
 TDS (SM 2540C)
 RAD SWB# 9016/6320

** Container Size: (1) 2L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 20mL, (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

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) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl. F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SWB# 9016/6320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|--------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| 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, Ti, 7040A: Hg.

Collected By: *David Proutz*
 Printed Name: (Arcadis)
 Signature: (Arcadis)

Additional Instructions from Pace*:
 Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Contracted Temp. (°C)

| Relinquished by/Company: (Signature) | Date/Time | Received by/Company: (Signature) | Date/Time | Tracking Number: |
|--------------------------------------|--------------|----------------------------------|--------------|--|
| <i>[Signature]</i> | 8/20/24 1830 | <i>[Signature]</i> | 8/20/24 1830 | |
| <i>[Signature]</i> | 8/21/24 1020 | <i>[Signature]</i> | 8/21/24 1020 | Delivered by: <input type="checkbox"/> In-Person <input type="checkbox"/> Courier |
| <i>[Signature]</i> | 8/21/24 1230 | <i>[Signature]</i> | 8/21/24 1230 | <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> 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 @



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: Commercial Pace Fed Ex UPS USPS Client Other: _____

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

Date/Initials Person Examining Contents: [Signature]

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

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

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

WO#: 92748880

Project #

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

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) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3H-250 mL Plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (59) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass Jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG3H-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) | VG7U-40 mL VOA Na2S2O3 (N/A) | VG8U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | RP7U-50 mL Plastic Unpreserved (N/A) | VJGK (3 vials per Rib-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 (NH3)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VG0U-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 | | 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.



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

Effective Date: 05/24/2024

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: Southern Comp Profile/EZ (Circle one) 16561 Notes

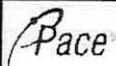
| Item# | Item Description | CC | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|
| BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | | | | | | | | | | | | | | |
| BP3U-250 mL Plastic Unpreserved (N/A) | | | 1 | 1 | | | | | | | | | | |
| BP2U-500 mL Plastic Unpreserved (N/A) | | | 1 | 1 | | | | | | | | | | |
| BP1U-1 liter Plastic Unpreserved (N/A) | | | 2 | 2 | | | | | | | | | | |
| BRIN | | | | | | | | | | | | | | |
| BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | | | | | | | | | | | | | | |
| BP3N-250 mL plastic HNO3 (pH < 2) | | | | | | | | | | | | | | |
| BP4Z-125 mL Plastic ZN Acetate & NaOH (pH) | | | | | | | | | | | | | | |
| 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 (NH-2)2SO4 (9.3-9.7) | | | | | | | | | | | | | | |
| AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | | | | | | | | | | | | | | |
| VG9U-20 mL Scintillation vials (N/A) | | | | | | | | | | | | | | |

100 mL Amber Unpreserved vial (N/A)

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 Kinsey 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
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates

Site Collection info/Facility ID (as applicable):
 YAT Pooled Upgradient

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingle@southernco.com
 Cc E-Mail: Arcadis contacts

Invoice To:
 Invoice E-Mail:

Purchase Order # (if applicable): GPC82474-0002
 Quote #:

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

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

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

County / State origin of sample(s): Georgia

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) | | Composite End | | Res. CL2 | Number & Type of Containers | | App III/IV Metals | Cl. F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | | | | | | | Sample Comment | |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|---------------------|--|--|--|--|--|--|----------------|-------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | | | | | | | | |
| 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 |

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, Ti; 7040A: Hg.

Collected By:
 Printed Name: *David Proutz*
 Signature: (Arcadis)

Additional Instructions from Pace*:

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

Relinquished by/Company: (Signature) *[Signature]*
 Date/Time: 8/20/24 1830

Relinquished by/Company: (Signature) *[Signature]*
 Date/Time: 8/21/24 1020

Relinquished by/Company: (Signature) *[Signature]*
 Date/Time: 8/21/24 1230

Received by/Company: (Signature) *[Signature]*
 Date/Time: 8/20/24 1830

Received by/Company: (Signature) *[Signature]*
 Date/Time: 8/21/24 1020

Received by/Company: (Signature) *[Signature]*
 Date/Time: 8/21/24 1230

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 Kinsey 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
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #: Task No. YAT-CCR-A55MT-202452
Project Name: Georgia Power Yates
Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradient

Contact/Report To: Trey Singleton
Phone #: 205.346.3317
E-Mail: rosingl@southernco.com
Cc E-Mail: Arcadis contacts
Invoice To:
Invoice E-Mail:
Purchase Order # (if applicable): GPC82474-0002
Quote #:
County / State origin of sample(s): Georgia

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Specify Container Size ** | | | | | | | | | | **Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other | | | | | | | | | |
| 3 | 3 | 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 | | | | | | | | | |
| Identify Container Preservative Type*** | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 1 | 2 | | | | | | | Analysis Requested | | | | | | | | | |

Time Zone Collected: [] AK [] PT [] MT [] CT [x] ET
Data Deliverables:
 Level II [] Level III [] Level IV
 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:

| | | | | | | | | | | | | | | | | | | | |
|-------------------|------------------------|----------------|---------------------|-------------------------------------|--|--|--|--|--|--------------------------|--|--|--|--|--|--|--|--|--|
| App III/IV Metals | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | 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) | | Composite End | | Res. CLZ | Number & Type of Containers | | App III/IV Metals | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|-------------------|------------------------|----------------|---------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| YAT-UGRD-EB-1 | WG | G | | | | | | 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 Warr*
 Signature: (Arcadis) *Jessica Warr*

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature) *[Signature]*
 Date/Time: 8/21/24 1020
 Relinquished by/Company: (Signature) *Kyan Williams / Paul*
 Date/Time: 8/21/24 1230

Received by/Company: (Signature) *Kyan Williams / Pace*
 Date/Time: 8/21/24 1620
 Received by/Company: (Signature) *Mona Pace*
 Date/Time: 8/21/24 1230

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 ©



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 #:

[Empty Project # box]

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: ms

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? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. | |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Includes Date/Time/ID/Analysis Matrix: <u>WGA</u> | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



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

Effective Date: 05/24/2024

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: 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) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & 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) | VJGK (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 (pH 3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-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
 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



927488EU

Scan QR Code for instructions

Company Name: Southern Company
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rosingle@southernco.com
 Cc E-Mail: Arcadis contacts

Customer Project #: Task No. YAT-CCR-A55MT-202452
 Project Name: Georgia Power Yates

Invoice To:
 Invoice E-Mail:

Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradient

Purchase Order # (if applicable): GPC82474-0002
 Quote #:

Specify Container Size **

| | | | | | | | | | |
|---|---|---|---|--|--|--|--|--|--|
| 3 | 3 | 2 | 1 | | | | | | |
|---|---|---|---|--|--|--|--|--|--|

**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 | | | | | | |
|---|---|---|---|--|--|--|--|--|--|

*** 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

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

County / State origin of sample(s): Georgia

Data Deliverables:
 Level II Level III Level IV
 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

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res. CL2 | Number & Type of Container | | App III/IV Metals | C.I.F. SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW54B 9315/8320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|----------------------------|-------|-------------------|------------------------|----------------|---------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| YAT-YGWA-30I | WG | G | | | | | | 5 | X | X | X | X | | See Remarks |
| YAT-YGWA-145 | 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: *David Probst*
 Printed Name: (Arcadis) *David Probst*
 Signature: (Arcadis) *David Probst*

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature) *David Probst / Arcadis*
 Date/Time: *8/22/24 0925*
 Relinquished by/Company: (Signature) *Ryan Williams / Pace*
 Date/Time: *8/22/24 1215*
 Relinquished by/Company: (Signature) _____
 Date/Time: _____

Received by/Company: (Signature) *Ryan Williams / Pace*
 Date/Time: *8/22/24 0925*
 Received by/Company: (Signature) *Charles Hawks*
 Date/Time: *8/22/24 1259*
 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 Kinsey 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
 Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
 Customer Project #: Task No. YAT-CCR-ASSMT-202452
 Project Name: Georgia Power Yates
 Site Collection Info/Facility ID (as applicable):
 YAT Pooled Upgradient

Contact/Report To: Trey Singleton
 Phone #: 205.346.3317
 E-Mail: rasingle@southernco.com
 Cc E-Mail: Arcadis contacts
 Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable): GPCB2474-0002
 Quote #:

Specify Container Size **

| | | | | | | | | | |
|---|---|---|---|--|--|--|--|--|--|
| 3 | 3 | 2 | 1 | | | | | | |
|---|---|---|---|--|--|--|--|--|--|

Identify Container Preservative Type***

| | | | | | | | | | |
|---|---|---|---|--|--|--|--|--|--|
| 2 | 1 | 1 | 2 | | | | | | |
|---|---|---|---|--|--|--|--|--|--|

Analysis Requested

Time Zone Collected: AK PT MT CT ET
 Data Deliverables:
 Level II Level III Level IV
 EQU/S
 Other _____

County / State origin of sample(s): Georgia
 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:

Proj. Mgr:
Bonnie Vang
 AcctNum / Client ID:
 Table #:
 Profile / Template:
16561
 Prelog / Bottle Ord. ID:
 Sample Comment

* 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) | | Composite End | | Res. CLZ | Number & Type of Containers | | App IIIIV Metals | Ci, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SWB46 8315/8320 | Sample Comment |
|--------------------|----------|-------------|--------------------------------|------|---------------|------|----------|-----------------------------|-------|------------------|------------------------|----------------|---------------------|----------------|
| | | | Date | Time | Date | Time | | Plastic | Glass | | | | | |
| 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, Ti; 7040A: Hg

Collected By:
 Printed Name: (Arcadis) *David Probst*
 Signature: (Arcadis) *David Probst*

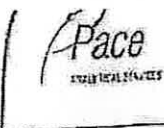
Additional Instructions from Pace*:
 # Coolers: _____ Thermometer ID: _____ Correction Factor (°C): _____ Obs. Temp. (°C): _____ Corrected Temp. (°C): _____

Relinquished by/Company: (Signature) *[Signature]* / Arcadis
 Date/Time: 8/22/24 0925
 Relinquished by/Company: (Signature) *[Signature]* / Pace
 Date/Time: 8/22/24 1215

Received by/Company: (Signature) *[Signature]* / Pace
 Date/Time: 8/22/24 0925
 Received by/Company: (Signature) *[Signature]*
 Date/Time: 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/>



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: Pace FedEx UPS USPS Client Other:

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

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

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



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) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| CC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 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).



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 #

Empty box for 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 Na2SO3 (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) | BP9B-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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 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 # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
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| | | | | | | |

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



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: | 0.689 |
| MB Numerical Performance Indicator: | 0.99 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCS/D (Y or N)? | |
|---|-----------------|----------|
| | LCS80992 | Y |
| Count Date: | 9/11/2024 | LCS80992 |
| 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): | 0.820 | 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% |

| Duplicate Sample Assessment | Duplicate Matrix/Matrix Spike Duplicate Sample Assessment |
|--|--|
| Sample I.D.: Duplicate Sample I.D.: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Duplicate Result (pCi/L, g, F): Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): Are sample and/or duplicate results below RL? Duplicate Numerical Performance Indicator: (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: Duplicate Status vs Numerical Indicator: Duplicate Status vs RPD: % RPD Limit: | 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: |
| LCS80992 LCS80992 2.660 0.667 3.947 0.892 NO -2.266 39.10% Warning Fail*** 36% | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |

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

Comments:

JRE
9.12.24
UAL
9/12/24

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

| 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 | LCS/D (Y or N)? | |
|---|-----------------|----------|
| | LCS80993 | Y |
| Count Date: | 9/11/2024 | LCS80993 |
| 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% |

| Duplicate Sample Assessment | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
|--|---|
| Sample I.D.: | |
| Duplicate Sample I.D.: | |
| Sample Result (pCi/L, g, F): | 4.124 |
| Sample Duplicate Result (pCi/L, g, F): | 0.955 |
| Sample Duplicate Result 2 Sigma CSU (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 |
| Duplicate Percent Recoveries): Duplicate RPD: | 17.32% |
| Duplicate Status vs Numerical Indicator: | Pass |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

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

| 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: Sample 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: | | |

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

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/16/2024
Worklist: 81001
Matrix: W

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 3370042 |
| MB concentration: | -0.019 |
| MB 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 | | LCS/D (Y or N)? | Y |
|---|--|-----------------|-----------|
| Count Date: | | LCS81001 | 9/16/2024 |
| Spike I.D.: | | LCS81001 | 23-014 |
| Decay Corrected Spike Concentration (pCi/mL): | | | 25.020 |
| Volume Used (mL): | | | 0.10 |
| Aliquot Volume (L, g, F): | | | 0.508 |
| Target Conc. (pCi/L, g, F): | | | 4.969 |
| Uncertainty (Calculated): | | | 0.232 |
| Result (pCi/L, g, F): | | | 4.413 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | | | 0.796 |
| Numerical Performance Indicator: | | | -1.22 |
| Percent Recovery: | | | 89.54% |
| Status vs Numerical Indicator: | | | Pass |
| Upper % Recovery Limits: | | | 125% |
| Lower % Recovery Limits: | | | 75% |

| Duplicate Sample Assessment | | LCS/D (Y or N)? | Y |
|---|--|-----------------|----------------|
| Sample I.D.: | | LCS81001 | 92748880015 |
| Duplicate Sample I.D.: | | LCS81001 | 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: | | 6.63% | 13.34% |
| Duplicate Status vs Numerical Indicator: | | Pass | Pass |
| Duplicate Status vs RPD: | | N/A | N/A |
| % RPD Limit: | | 25% | 25% |

| 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): MS 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: | |

| 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:

Handwritten note: 81001/9/16/2024

Handwritten note: 81001 9-16-24

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 3370048 |
| MB concentration: | 0.081 |
| MB 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 | |
|---|-----------|
| LCS (Y or N)? | Y |
| LCS81002 | 9/16/2024 |
| Count Date: | 9/16/2024 |
| Spike I.D.: | 23-014 |
| Decay Corrected Spike Concentration (pCi/mL): | 25.020 |
| Volume Used (mL): | 0.10 |
| Aliquot Volume (L, g, F): | 0.506 |
| Target Conc. (pCi/L, g, F): | 4.943 |
| Uncertainty (Calculated): | 0.232 |
| Result (pCi/L, g, F): | 5.073 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.914 |
| Numerical Performance Indicator: | 0.27 |
| Percent Recovery: | 102.61% |
| Status vs Numerical Indicator: | Pass |
| Status vs Recovery: | N/A |
| Upper % Recovery Limits: | 125% |
| Lower % Recovery Limits: | 75% |

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

| Sample Matrix Spike Control Assessment | |
|--|----------|
| Sample Collection Date: | MS/MSD 1 |
| Sample ID: | MS/MSD 2 |
| 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: | |
| 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: | |

| 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: | |
| Sample Matrix Spike Duplicate 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:

67
9-16-24

AM01101024

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/11/2024
Worklist: 81119
Matrix: W

| 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 | | LCS (Y or N)? | Y |
|---|-----------|---------------|-----------|
| Count Date: | 9/13/2024 | LCS81119 | 9/13/2024 |
| Spike ID.: | 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): | 0.234 | | 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% |

| Duplicate Sample Assessment | | LCS (Y or N)? | Y |
|---|----------|---------------|-------------|
| Sample I.D.: | LCS81119 | | |
| Duplicate Sample I.D.: | LCS81119 | | |
| 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% |

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

Comments:

ET
9/16/24

9/11/24

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

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

| 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

Appendix B

Field Sampling Reports

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: Kim Lapszynski

Field Conditions: Clear

| Instrument | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 9.99 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.2 | | |
| | 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 | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.0 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.1 | | |
| | 20 | 19.6 | | |
| | 100 | 94.9 | | |
| | 800 | 786 | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: Kim Lapszvnski

Field Conditions: Cloudy

| Instrument | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.8 | | |
| | 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 | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.0 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | - | | |
| | 20 | - | | |
| | 100 | - | | |
| | 800 | - | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

| Instrument | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.2 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.0 | | |
| | 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 | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 9.84 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.1 | | |
| | 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 | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.1 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | - | | |
| | 20 | - | | |
| | 100 | - | | |
| | 800 | - | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

| Instrument | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.2 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | - | | |
| | 20 | - | | |
| | 100 | - | | |
| | 800 | - | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: David Proutv

Field Conditions: Clear

| Instrument | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 9.98 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.0 | | |
| | 20 | 19.9 | | |
| | 100 | 100 | | |
| | 800 | 801 | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: David Proutv

Field Conditions: Clear

| Instrument | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 9.49 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 9.79 | | |
| | 20 | 19.6 | | |
| | 100 | 101 | | |
| | 800 | 800 | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: David Proutv

Field Conditions: Cloudy

| Instrument | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 9.93 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.2 | | |
| | 20 | 20.1 | | |
| | 100 | 99.8 | | |
| | 800 | 802 | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: David Proutv

Field Conditions: Clear

| Instrument | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 9.79 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | - | | |
| | 20 | - | | |
| | 100 | - | | |
| | 800 | - | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: Jessica Ware

Field Conditions: Clear

| Instrument | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.00 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.40 | | |
| | 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 | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.5 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 9.95 | | |
| | 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 | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 9.96 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.3 | | |
| | 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 | Manufacturer/ 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | 10.0 | | |
| | 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 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | - | | |
| | 20 | - | | |
| | 100 | - | | |
| | 800 | - | | |

Notes:

| 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



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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | Key Number To Well: _____ |

Groundwater Sampling Form

Updated : 9/9/2024 6:53:23 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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | Key Number To Well: _____ |

Groundwater Sampling Form

Updated : 9/9/2024 6:58:32 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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | Key Number To Well: _____ |

Groundwater Gauging Well Inspection Report

| | | | | | |
|--------------------------|---|--------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Protective Casing: | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Surface Pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Internal Casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location: | | | | |
| | appropriate to 1) achieve the objectives of the Groundwater Monitoring Program | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | and 2) comply with the applicable regulatory requirements? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Corrective actions as needed, by date: | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

Groundwater Gauging Well Inspection Report

| | | | | | |
|--------------------------|---|--------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Protective Casing: | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Surface Pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Internal Casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location: | | | | |
| | appropriate to 1) achieve the objectives of the Groundwater Monitoring Program | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | and 2) comply with the applicable regulatory requirements? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Corrective actions as needed, by date: | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

Groundwater Gauging Well Inspection Report

| | | | | | |
|--------------------------|---|--------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Protective Casing: | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Surface Pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Internal Casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location: | | | | |
| | appropriate to 1) achieve the objectives of the Groundwater Monitoring Program | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | and 2) comply with the applicable regulatory requirements? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Corrective actions as needed, by date: | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

Groundwater Gauging Well Inspection Report

| | | | | | |
|--------------------------|---|--------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Protective Casing: | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Surface Pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Internal Casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location: | | | | |
| | appropriate to 1) achieve the objectives of the Groundwater Monitoring Program | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | and 2) comply with the applicable regulatory requirements? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Corrective actions as needed, by date: | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

Groundwater Gauging Well Inspection Report

| | | | | | |
|--------------------------|---|--------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Protective Casing: | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Surface Pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Internal Casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location: | | | | |
| | appropriate to 1) achieve the objectives of the Groundwater Monitoring Program | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | and 2) comply with the applicable regulatory requirements? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Corrective actions as needed, by date: | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

Groundwater Gauging Well Inspection Report

| | | | | | |
|--------------------------|---|--------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Protective Casing: | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Surface Pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Internal Casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location: | | | | |
| | appropriate to 1) achieve the objectives of the Groundwater Monitoring Program | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | and 2) comply with the applicable regulatory requirements? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Corrective actions as needed, by date: | | | | |
| | Cut grass | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

Groundwater Gauging Well Inspection Report

| | | | | | |
|--------------------------|---|--------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Protective Casing: | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Surface Pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Internal Casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location: | | | | |
| | appropriate to 1) achieve the objectives of the Groundwater Monitoring Program | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | and 2) comply with the applicable regulatory requirements? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Corrective actions as needed, by date: | | | | |
| | Cut grass | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

Groundwater Gauging Well Inspection Report

| | | | | | |
|--------------------------|---|--------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Protective Casing: | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Surface Pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Internal Casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location: | | | | |
| | appropriate to 1) achieve the objectives of the Groundwater Monitoring Program | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | and 2) comply with the applicable regulatory requirements? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Corrective actions as needed, by date: | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

Groundwater Gauging Well Inspection Report

| | | | | | |
|--------------------------|---|--------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Protective Casing: | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Surface Pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Internal Casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location: | | | | |
| | appropriate to 1) achieve the objectives of the Groundwater Monitoring Program | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | and 2) comply with the applicable regulatory requirements? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Corrective actions as needed, by date: | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

Upgradient Wells

| 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 Sampling Form

Updated : 8/20/2024 2:41:56 PM
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| | | | | | |
|------------------------------------|-----------------------|--------------------------------|--------------------|--|-------------|
| 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 |
| Static Water Level (ft-bmp) | 20.6 | Total Depth (ft-bmp) | 58.94 | Water Column(ft) | 38.34 |
| MP Elevation | 784.54 | Pump Intake (ft-bmp) | 53 | Purge Method | Low-Flow |
| Sample Time | 09:59 | Well Volumes Purged | | Sample ID | YAT-YGWA-5I |
| Purge Start | 09:36 | Gallons Purged | | Replicate/ Code No. | |
| Purge End | 09:56 | | | Color | Clear |

| 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
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| | | | | | | | |
|------------------------------------|---------------------|--------------------------------|--|-----------------------------|---------------|-----------------------------|--------------|
| Project Number | 30143608 | Well ID | YGWA-11 | 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-11 | 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: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 4:21:28 PM
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| | | | | | |
|------------------------------------|-----------------------|--------------------------------|--------------------|--|-------------|
| 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 |
| Static Water Level (ft-bmp) | 24.78 | Total Depth (ft-bmp) | 48.81 | Water Column(ft) | 24.03 |
| MP Elevation | 784.21 | Pump Intake (ft-bmp) | 45 | Purge Method | Low-Flow |
| Sample Time | 12:00 | Well Volumes Purged | | Sample ID | YAT-YGWA-4I |
| Purge Start | 11:11 | Gallons Purged | | Replicate/ Code No. | |
| Purge End | 11:54 | | | Color | Clear |

| 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: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: _____ 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
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| | | | | | | | |
|------------------------------------|-----------------------|--------------------------------|--------------------|--|-----------|-----------------------------|------------------|
| 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: | _____ | Well Locked at Arrival: | _____ |
| Condition of Well: | _____ | Well Locked at Departure: | _____ |
| Well Completion: | _____ | Key Number To Well: | _____ |

Groundwater Sampling Form

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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | Key Number To Well: _____ |

Groundwater Sampling Form

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

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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | Key Number To Well: _____ |

Groundwater Sampling Form

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 |
| Static Water Level (ft-bmp) | 17.11 | Total Depth (ft-bmp) | 34.96 | Water Column(ft) | 17.85 |
| MP Elevation | 748.76 | Pump Intake (ft-bmp) | 30 | Purge Method | Low-Flow |
| Sample Time | 16:18 | Well Volumes Purged | 0.36 | Sample ID | YAT-YGWA-14S |
| Purge Start | 15:56 | Gallons Purged | 1.06 | Replicate/ Code No. | |
| Purge End | 16:16 | | | Color | Clear |

| 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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | 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 |
| Static Water Level (ft-bmp) | 43.25 | Total Depth (ft-bmp) | 59.48 | Water Column(ft) | 16.23 |
| MP Elevation | 762.58 | Pump Intake (ft-bmp) | 54.5 | Purge Method | Low-Flow |
| Sample Time | 17:37 | Well Volumes Purged | 0.30 | Sample ID | YAT-YGWA-30I |
| Purge Start | 17:15 | Gallons Purged | 0.79 | Replicate/ Code No. | |
| Purge End | 17:35 | | | Color | Clear |

| 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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | 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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | Key Number To Well: _____ |

Groundwater Sampling Form



Updated : 8/21/2024 11:00:08 AM
+00:00

| | | | | | | | |
|------------------------------------|-----------------------|--------------------------------|--------------------|--|-----------|-----------------------------|------------------|
| Project Number | 30143623 | Well ID | YGWA-211 | 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-211 | 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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | Key Number To Well: _____ |

Groundwater Sampling Form

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 |
| Static Water Level (ft-bmp) | 21.7 | Total Depth (ft-bmp) | 39.97 | Water Column(ft) | 18.27 |
| MP Elevation | 790.57 | Pump Intake (ft-bmp) | 35 | Purge Method | Low-Flow |
| Sample Time | 09:45 | Well Volumes Purged | 0.36 | Sample ID | YGWA-18S |
| Purge Start | 08:56 | Gallons Purged | 1.06 | Replicate/ Code No. | YAT-UGRD-FD-2 |
| Purge End | 11:16 | | | | |
| Well Casing Material | PVC | | | | |
| Gallons in Well | 2.97 | | | | |
| Sample Method | Grab | | | | |
| Sampled by | David Prouty | | | | |
| Color | Clear | | | | |

| 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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | 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 |
| Static Water Level (ft-bmp) | 19.74 | Total Depth (ft-bmp) | 68.59 | Water Column(ft) | 48.85 |
| MP Elevation | 818.19 | Pump Intake (ft-bmp) | 63 | Purge Method | Low-Flow |
| Sample Time | 12:40 | Well Volumes Purged | 0.08 | Sample ID | YAT-YGWA-39 |
| Purge Start | 12:08 | Gallons Purged | 0.66 | Replicate/ Code No. | |
| Purge End | 13:19 | | | | |
| Well Casing Material | PVC | | | | |
| Gallons in Well | 7.94 | | | | |
| Sample Method | Grab | | | | |
| Sampled by | David Prouty | | | | |
| Color | Clear | | | | |

| 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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | 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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | Key Number To Well: _____ |

Groundwater Sampling Form



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 |
| Static Water Level (ft-bmp) | 20.28 | Total Depth (ft-bmp) | 129.13 | Water Column(ft) | 108.85 |
| MP Elevation | 784.53 | Pump Intake (ft-bmp) | 124 | Purge Method | Low-Flow |
| Sample Time | 09:56 | Well Volumes Purged | 0.04 | Sample ID | YAT-YGWA-5D |
| Purge Start | 09:30 | Gallons Purged | 0.79 | Replicate/ Code No. | YAT-UGRD-FB-2 |
| 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: _____ | Well Locked at Arrival: _____ |
| Condition of Well: _____ | Well Locked at Departure: _____ |
| Well Completion: _____ | 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: _____ |

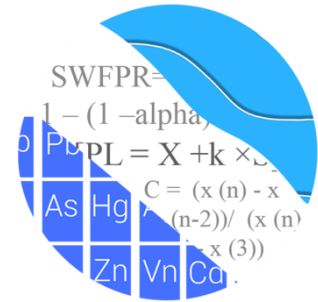
Appendix C

Statistical Analysis

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,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Senior Statistician

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

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 | NBq | Mean | Std. Dev. | %NDs | ND Adj. | TransformAlpha | Method |
|-------------------------------------|----------|------------|------------|-----------|---------|------|-----|-----|------|-----------|--------|---------|----------------|--|
| Boron, total (mg/L) | YGWC-44 | 0.16 | n/a | 8/21/2024 | 0.49 | Yes | 425 | n/a | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | NBg | Mean | Std. Dev. | %NDs | ND Adj. | TransformAlpha | Method |
|---|-----------------|-------------|------------|------------------|-------------|------------|------------|------------|------------|------------|---------------|------------|----------------|---|
| Boron, total (mg/L) | YGWC-44 | 0.16 | n/a | 8/21/2024 | 0.49 | Yes | 425 | n/a | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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

| <u>Constituent</u> | <u>Upper Lim.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------------|
| Antimony (mg/L) | 0.0047 | 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

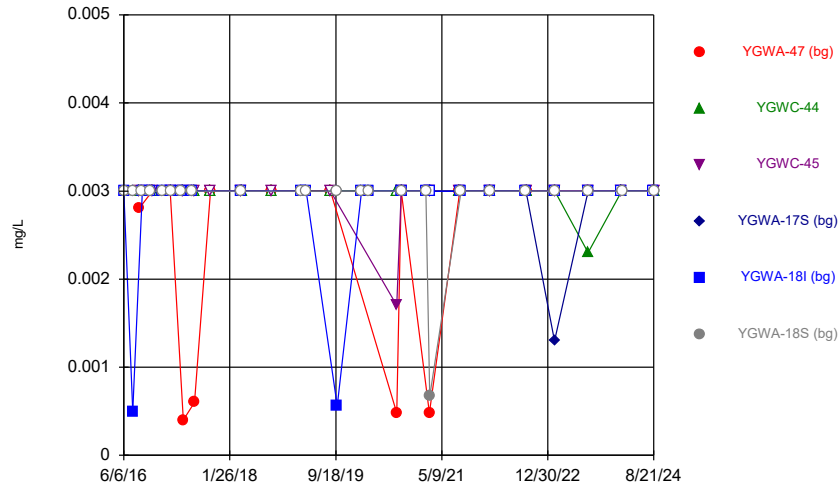
| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|----------|------------|------------|------------|------|----|-----------|------------|-------|--------------|-----------|-------|----------------|
| 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) |

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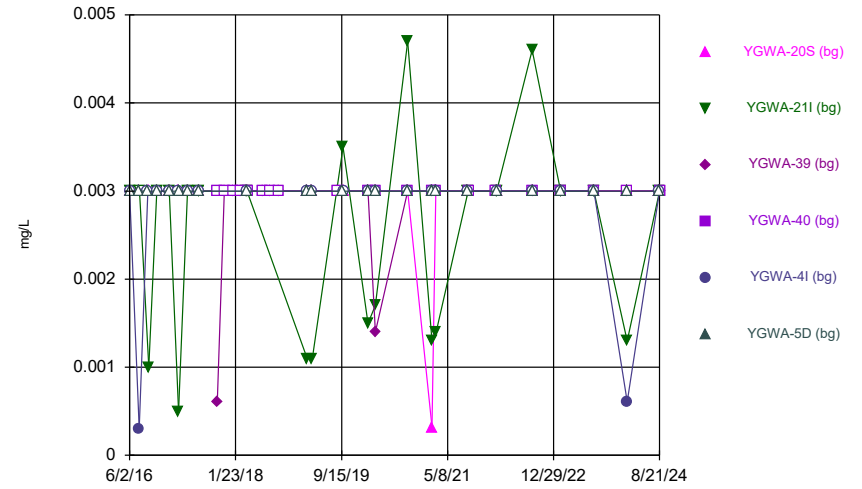
FIGURE A.

Time Series



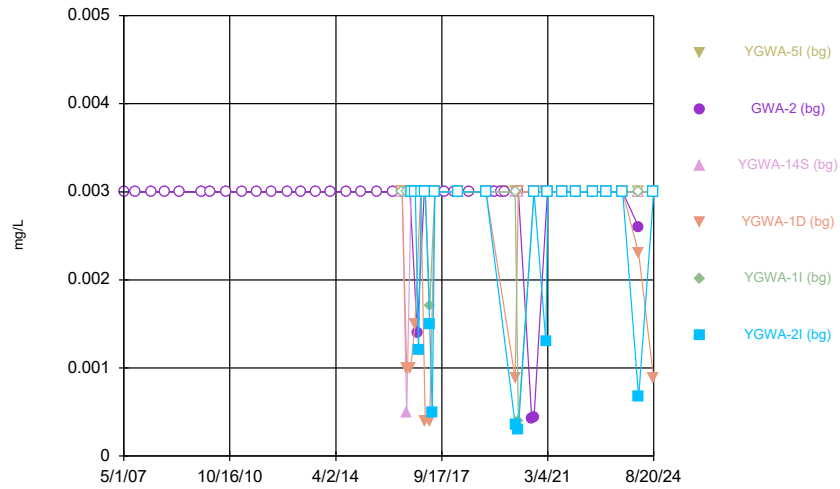
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Time Series



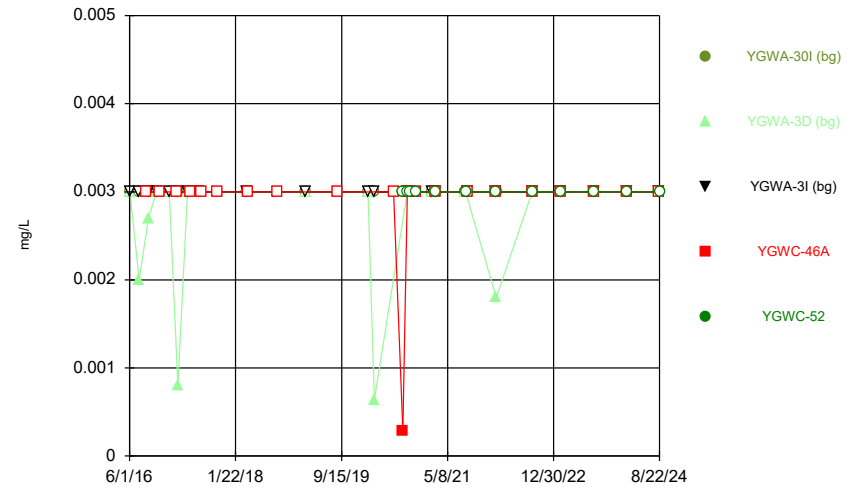
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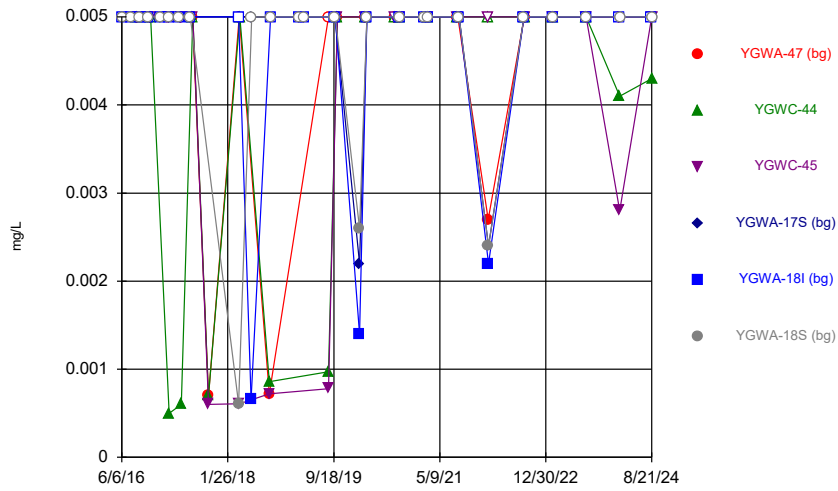
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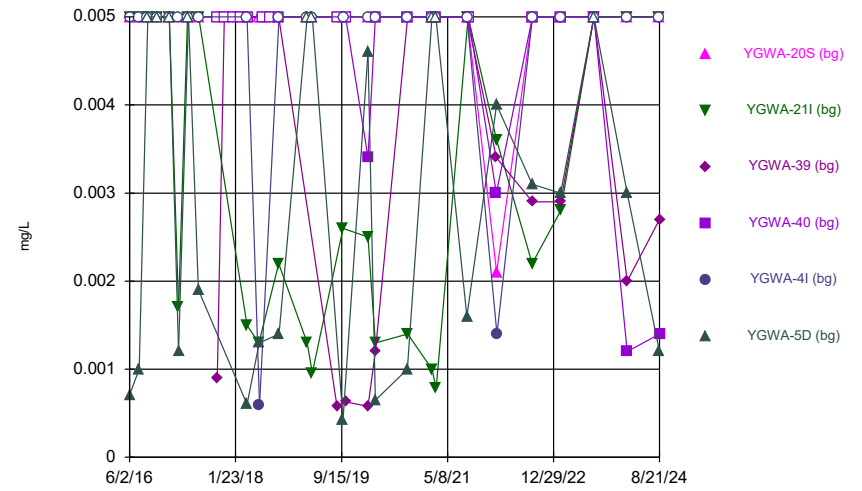
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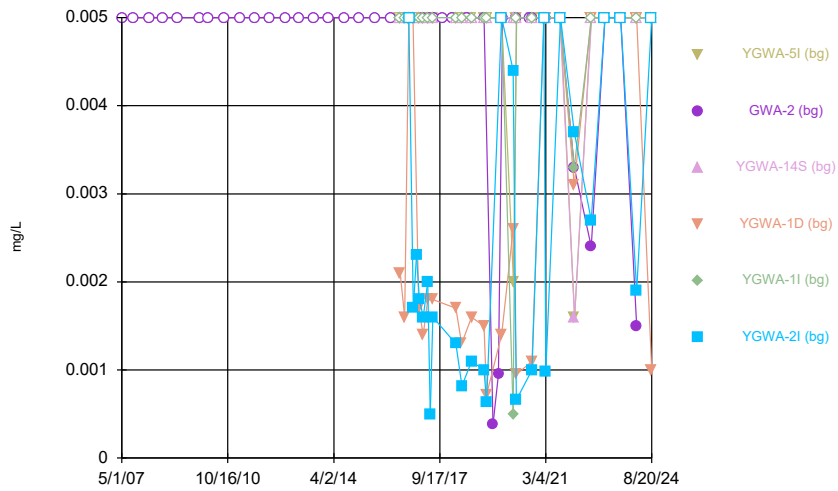
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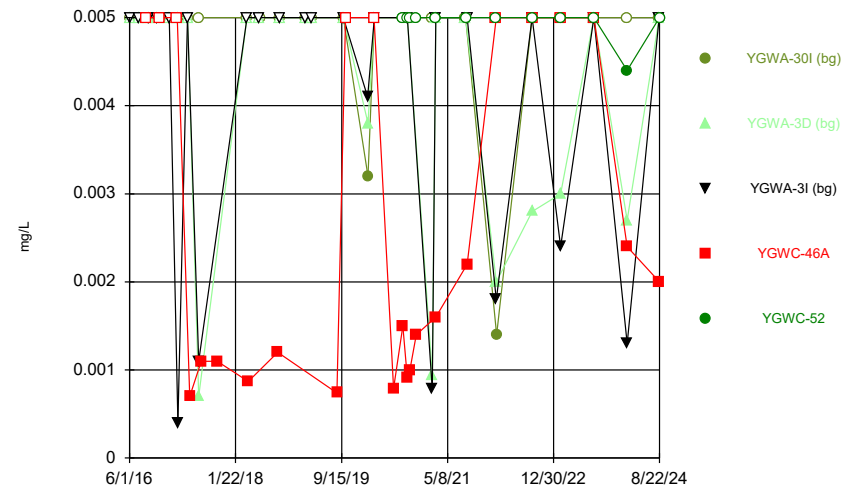
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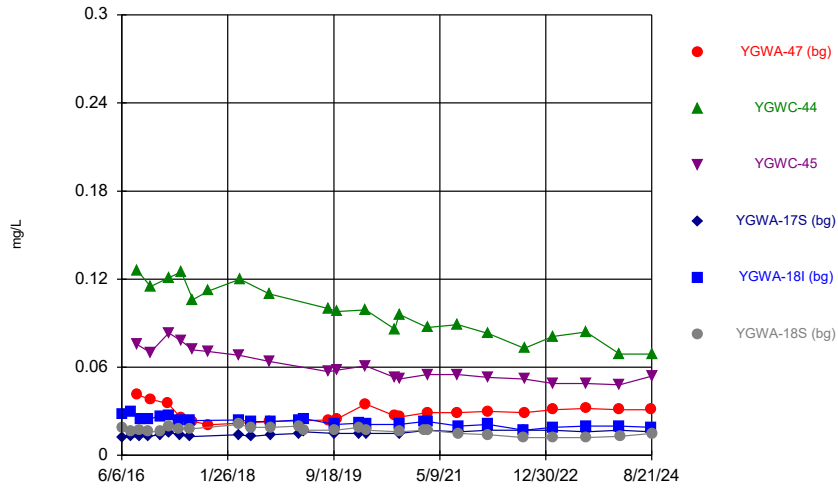
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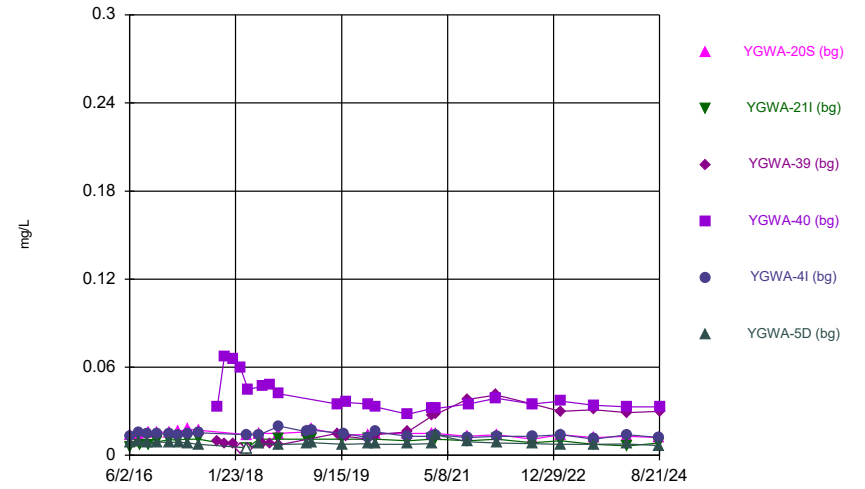
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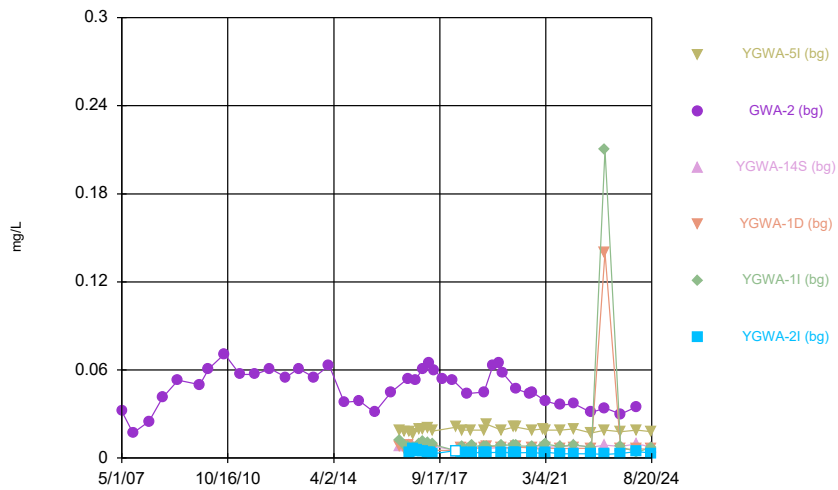
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Time Series



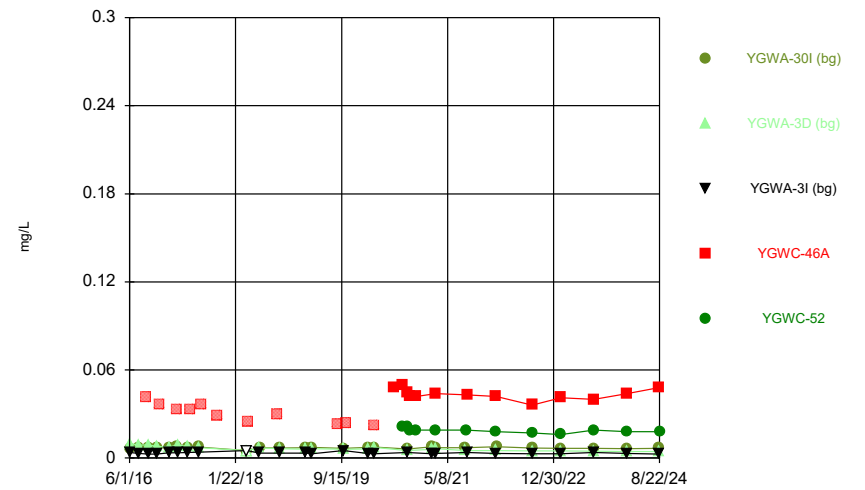
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Time Series



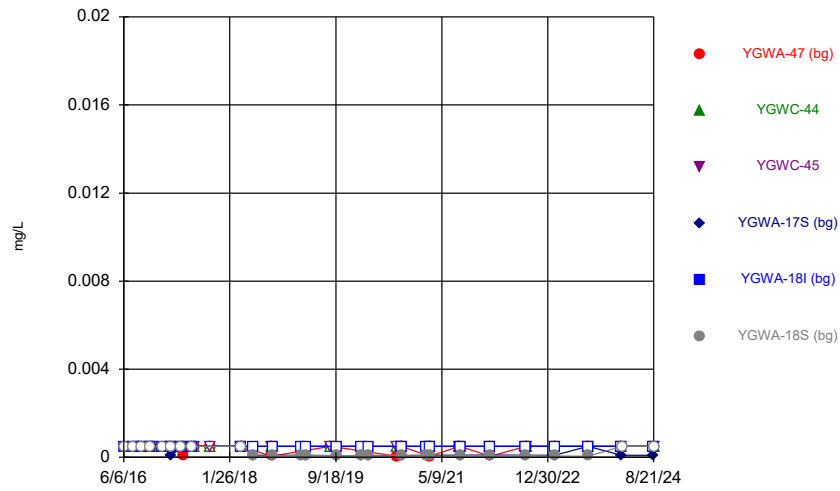
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Time Series



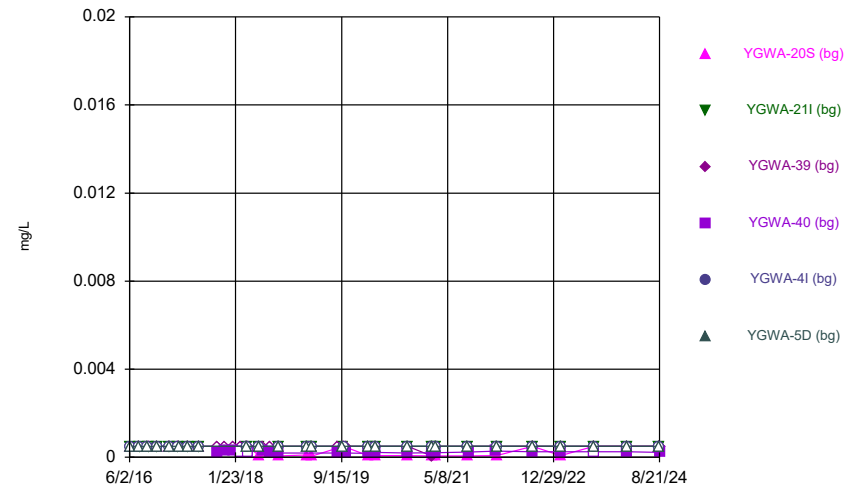
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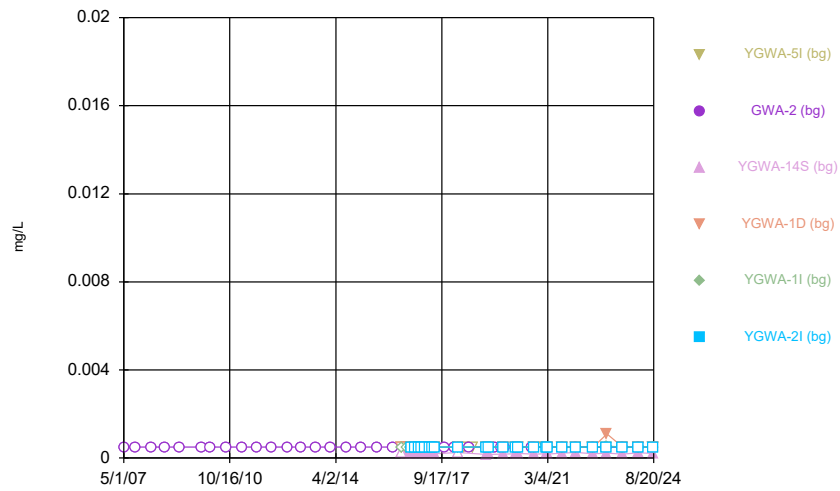
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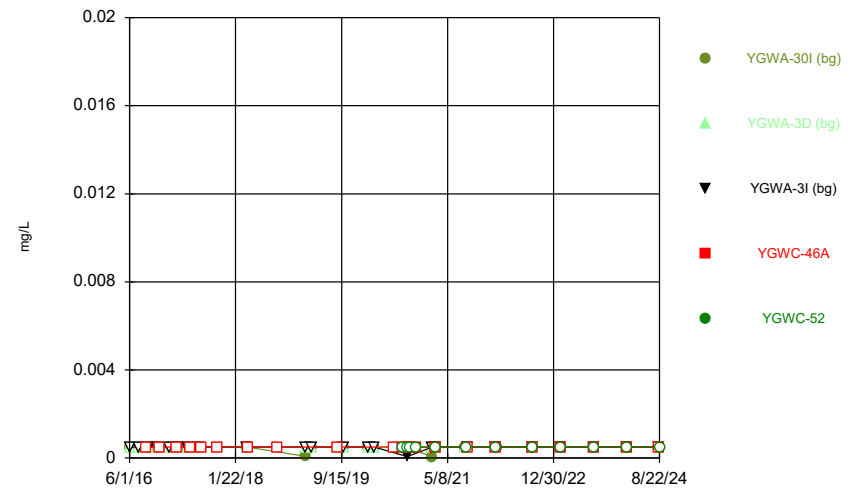
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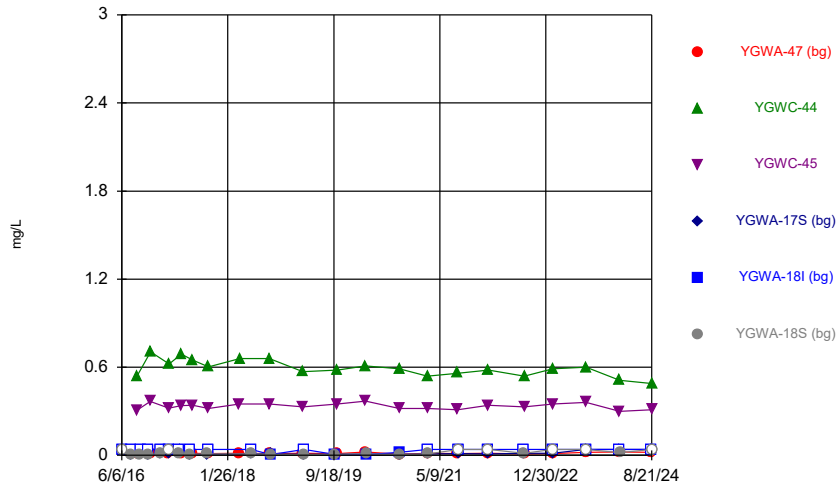
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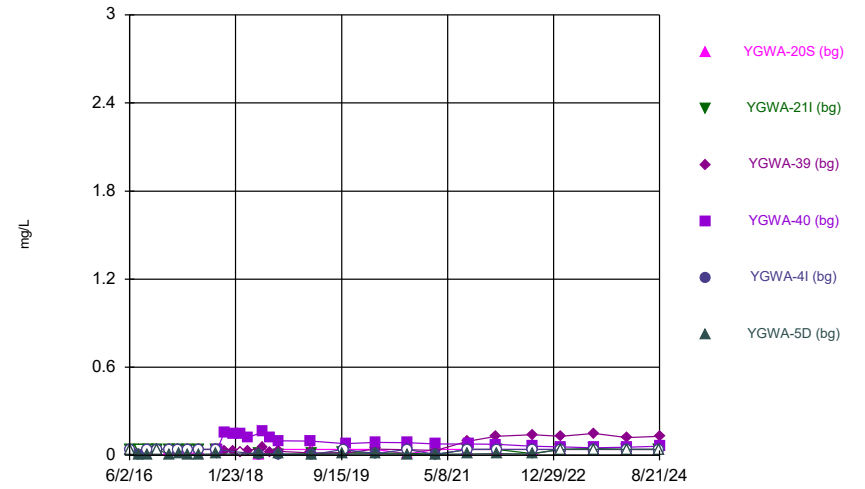
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Time Series



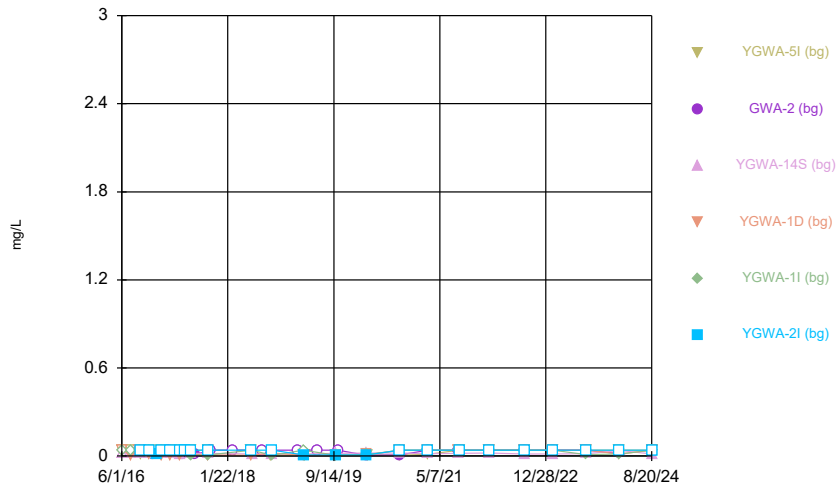
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Time Series



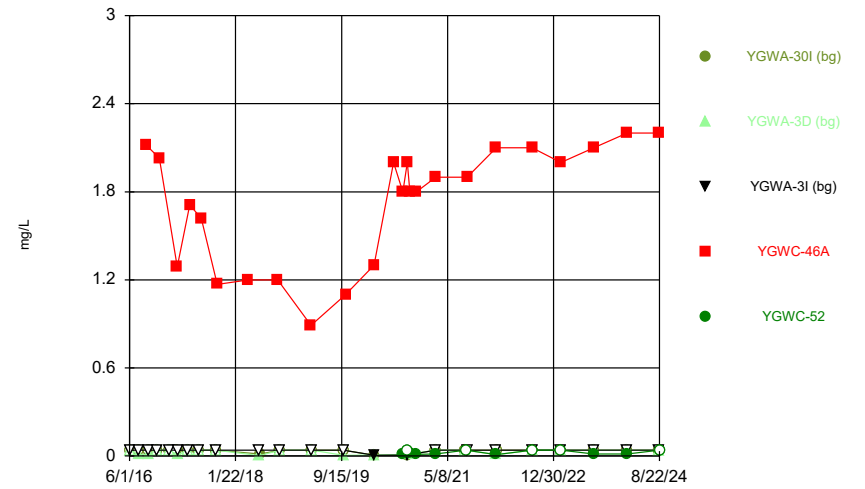
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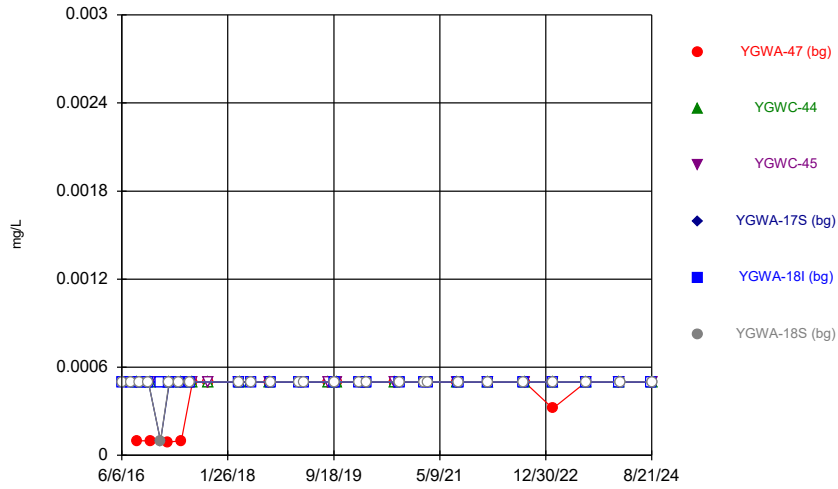
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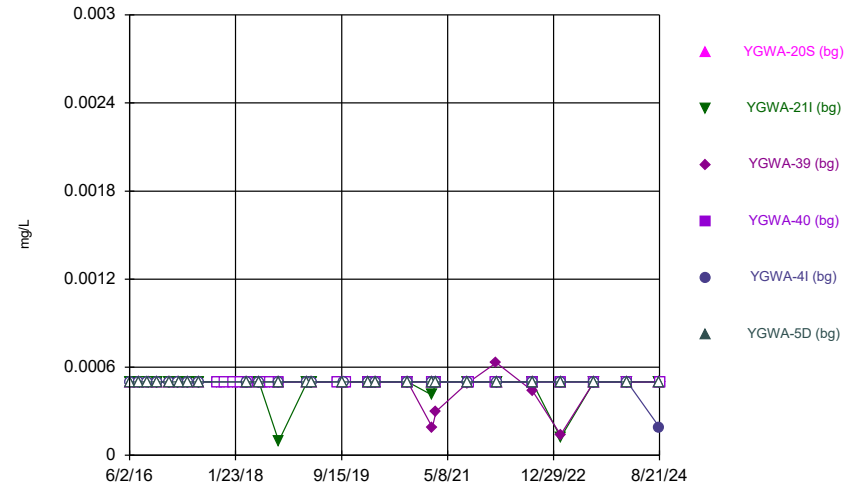
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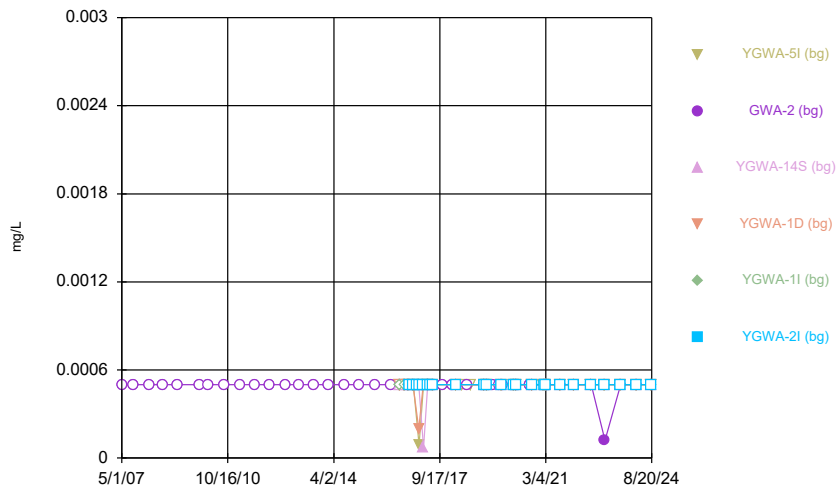
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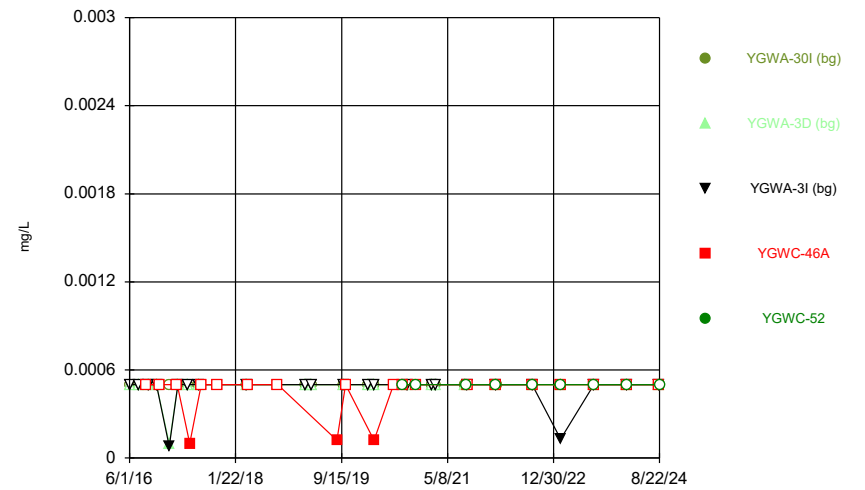
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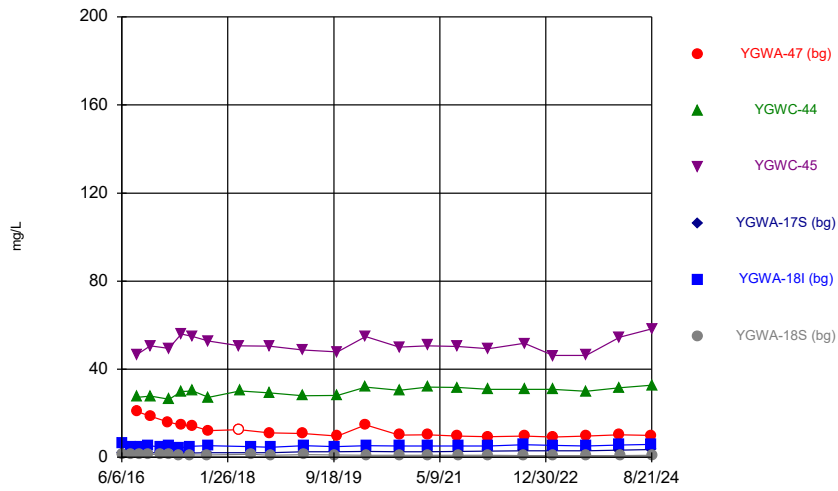
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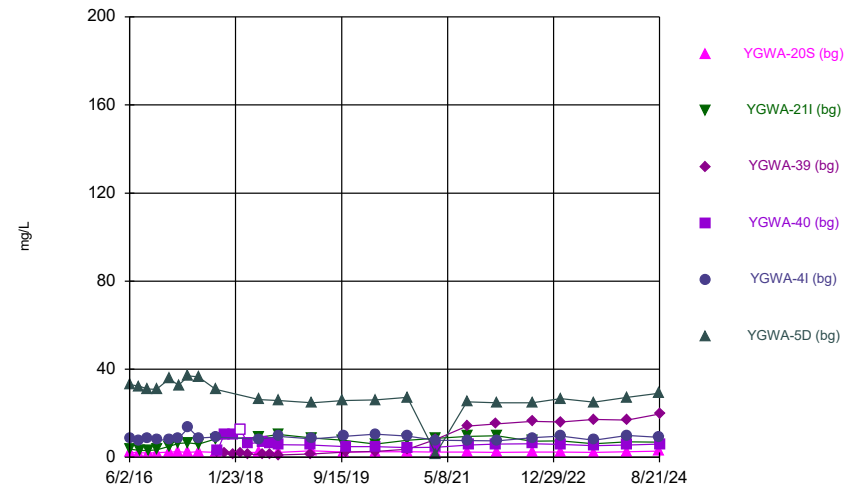
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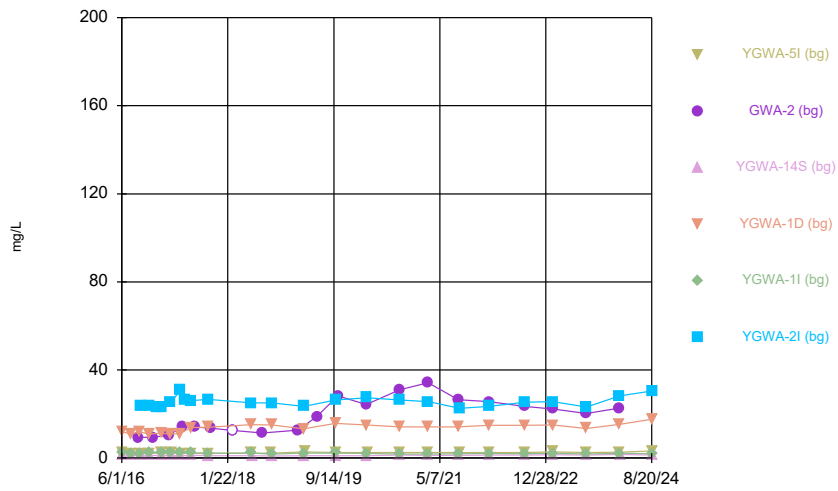
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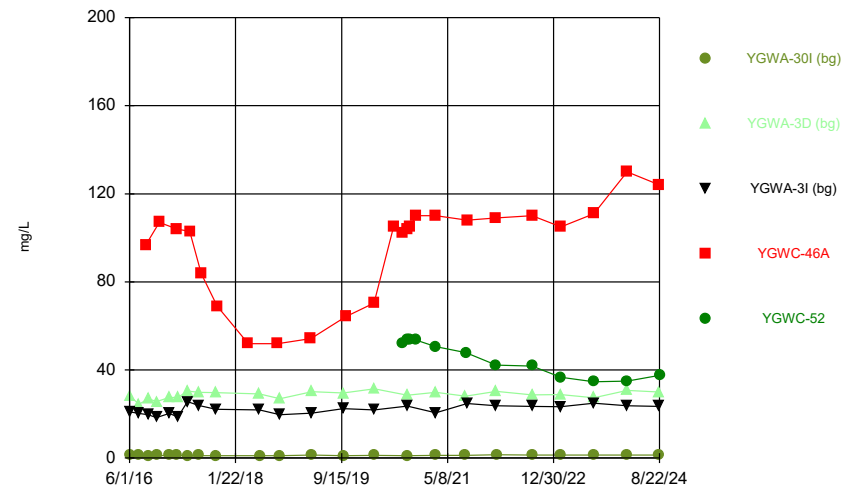
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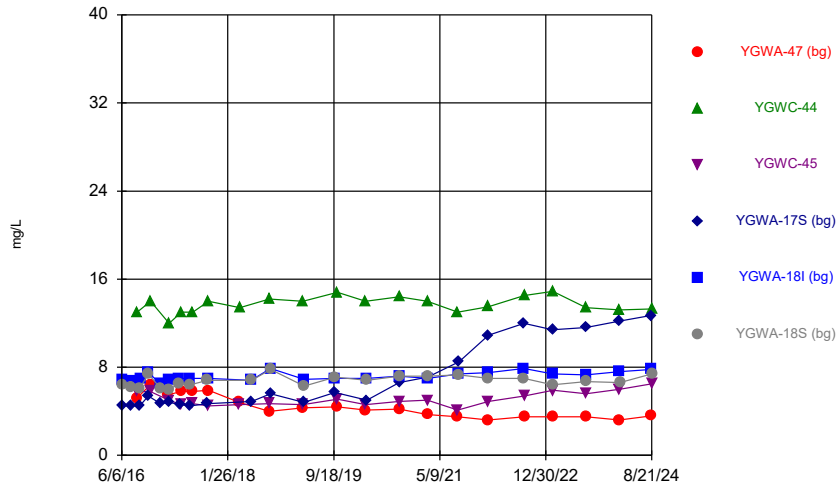
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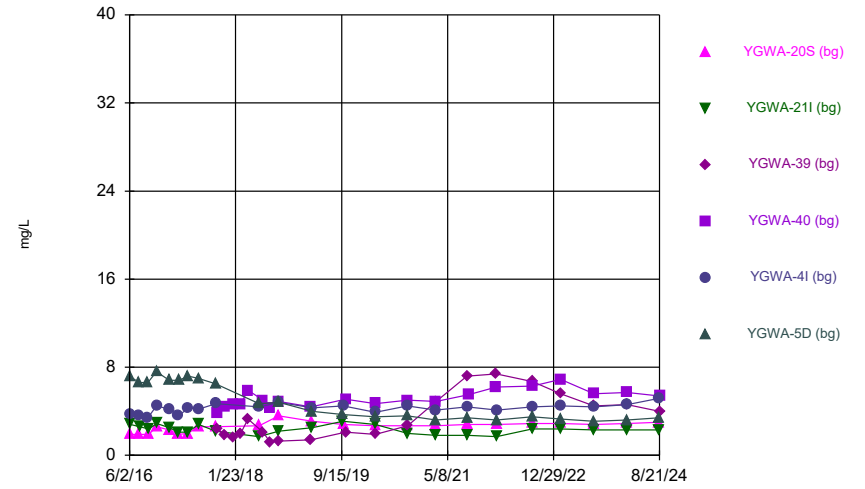
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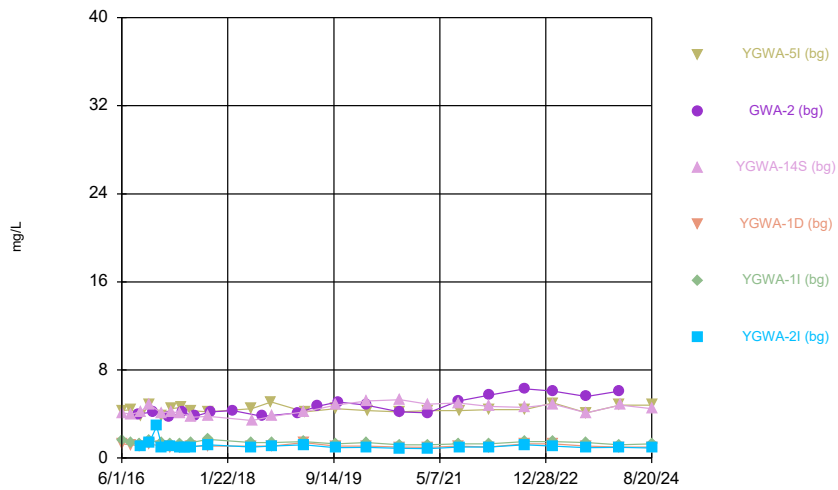
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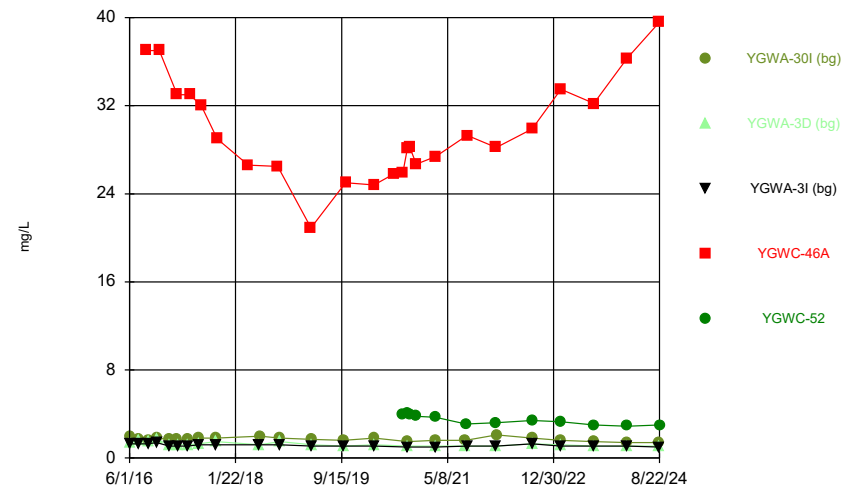
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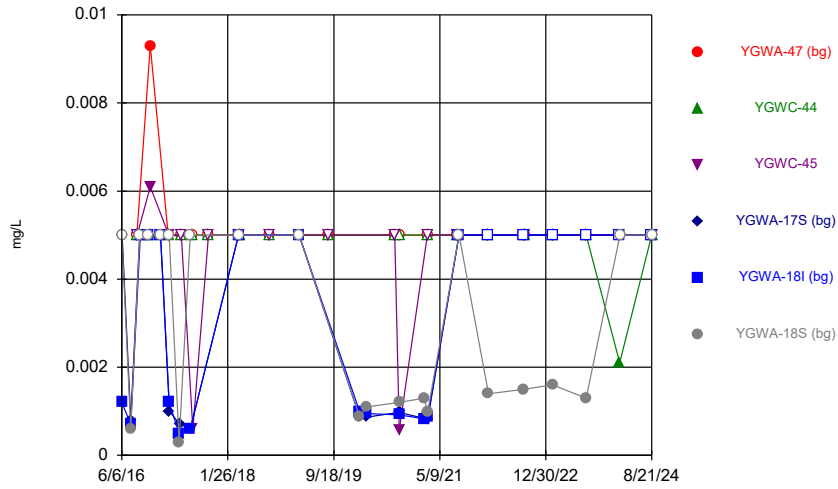
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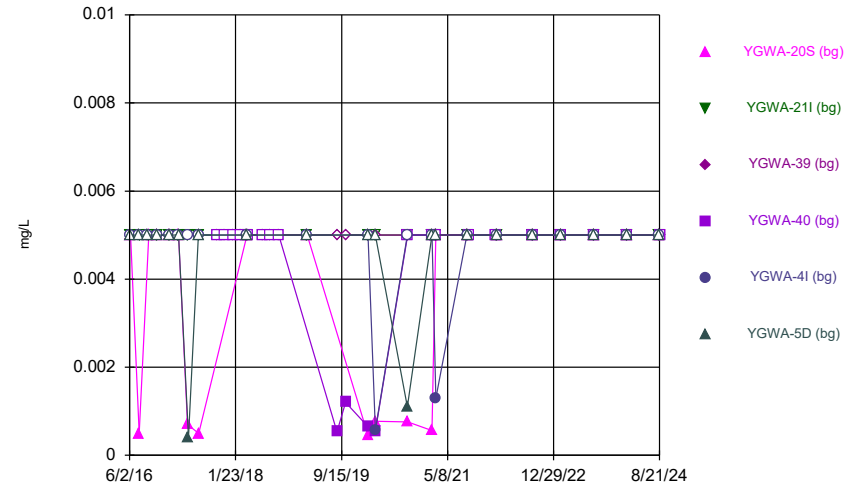
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Time Series



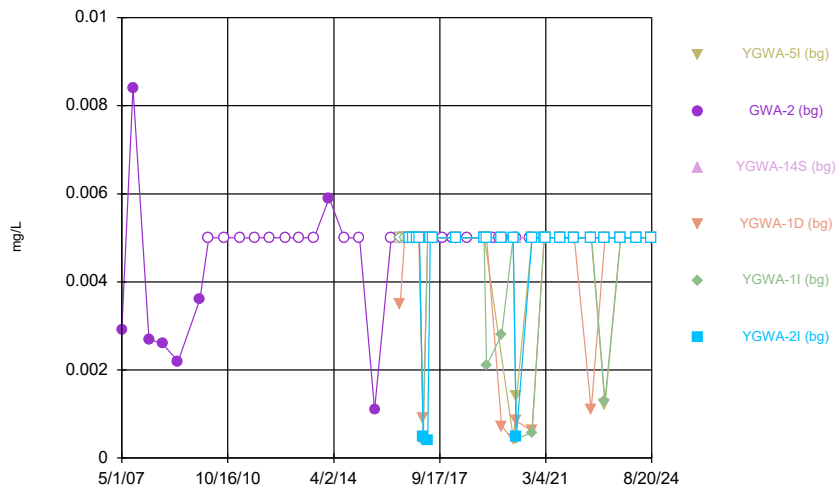
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



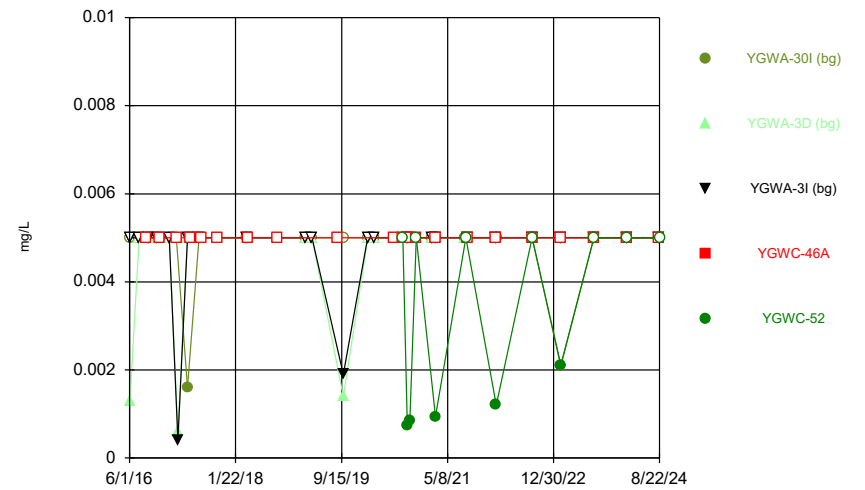
Constituent: Chromium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



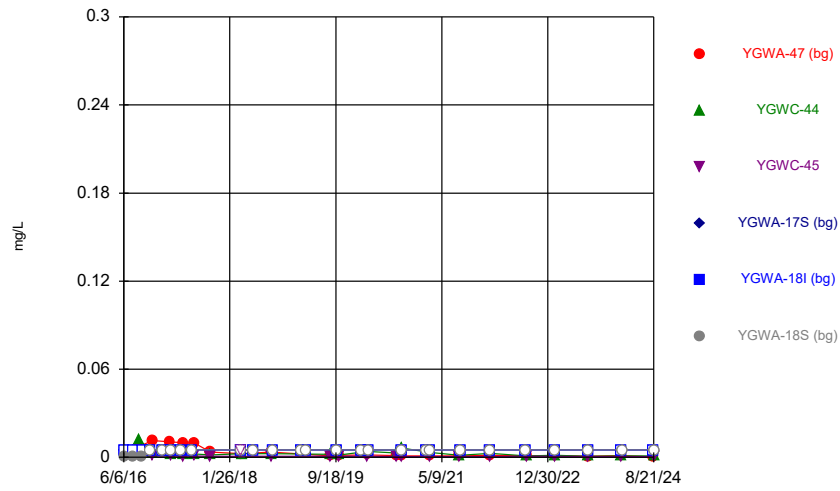
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



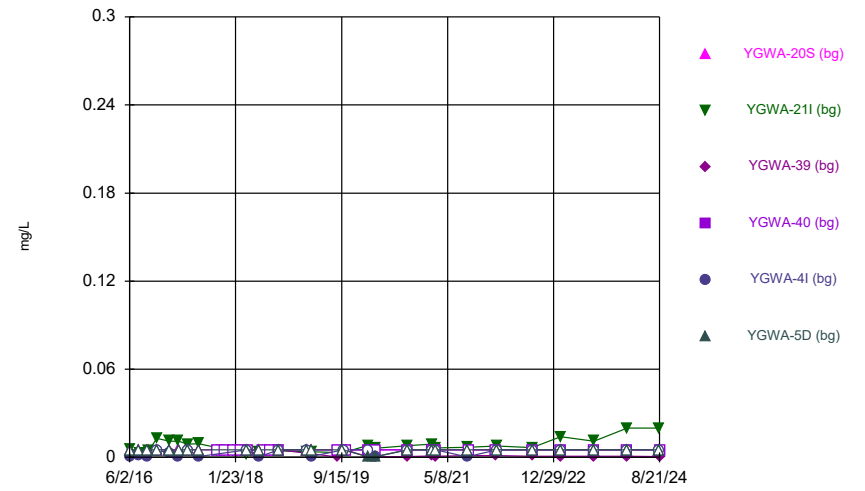
Constituent: Chromium Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



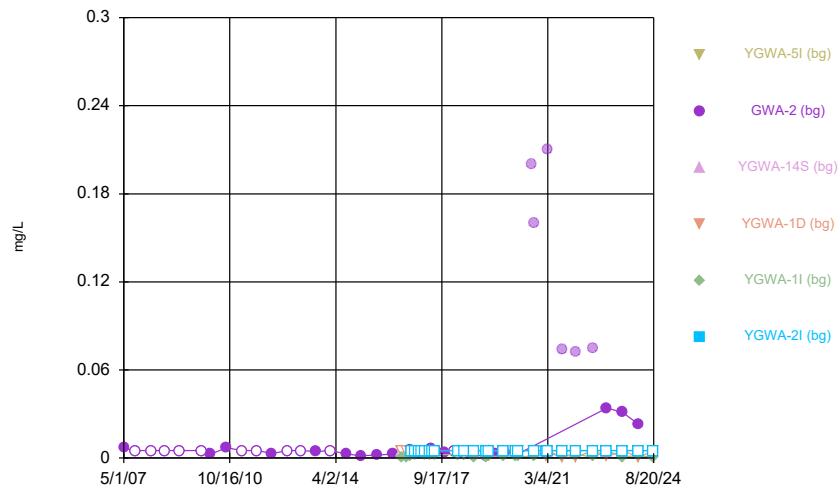
Constituent: Cobalt Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



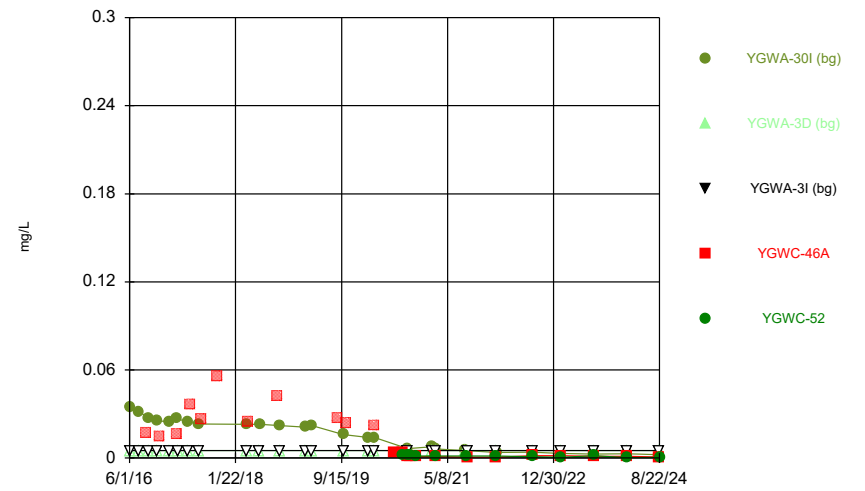
Constituent: Cobalt Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



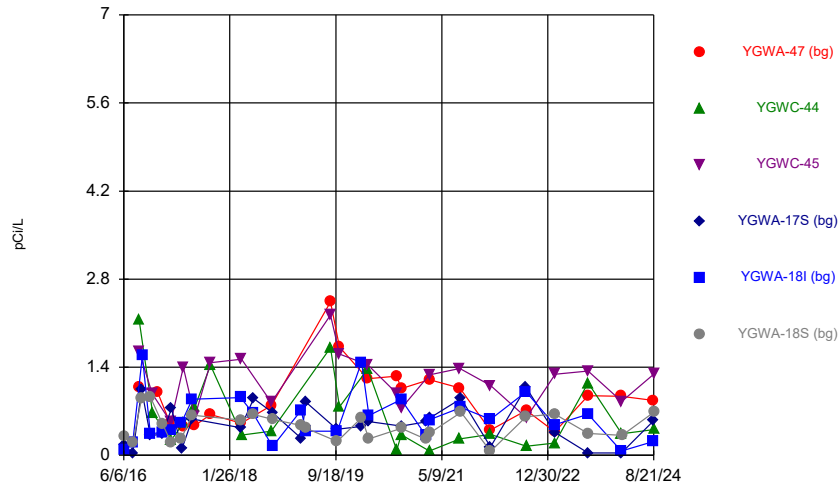
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



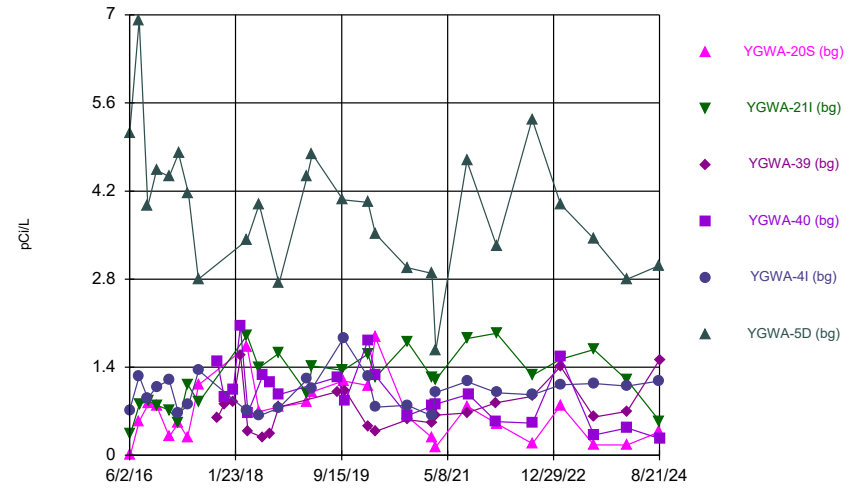
Constituent: Cobalt Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



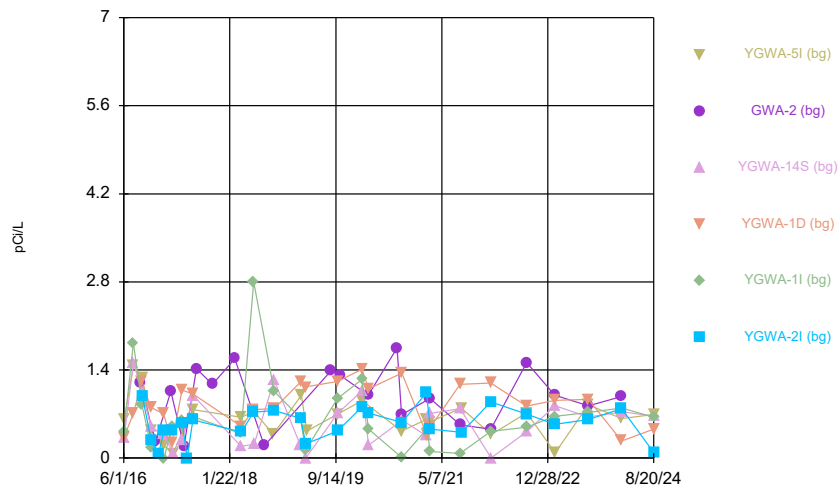
Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



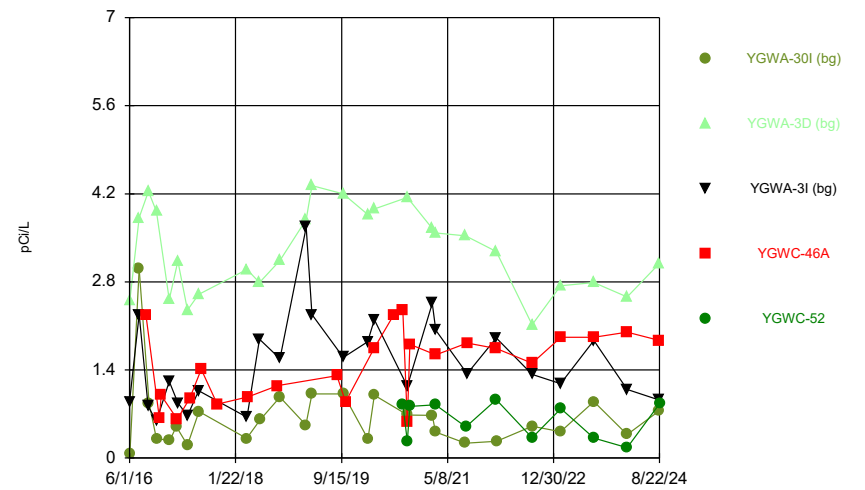
Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



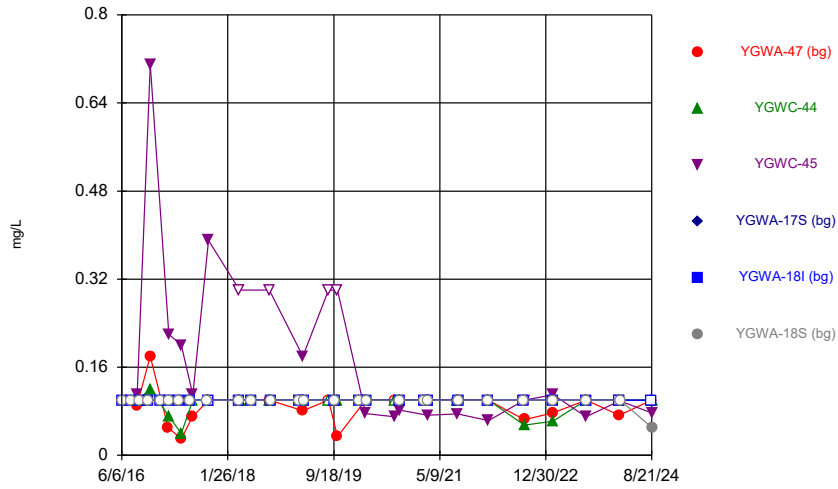
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



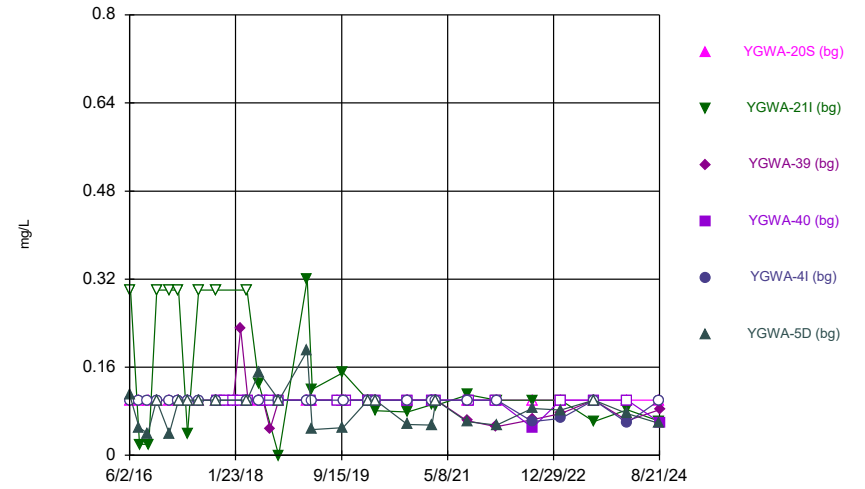
Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



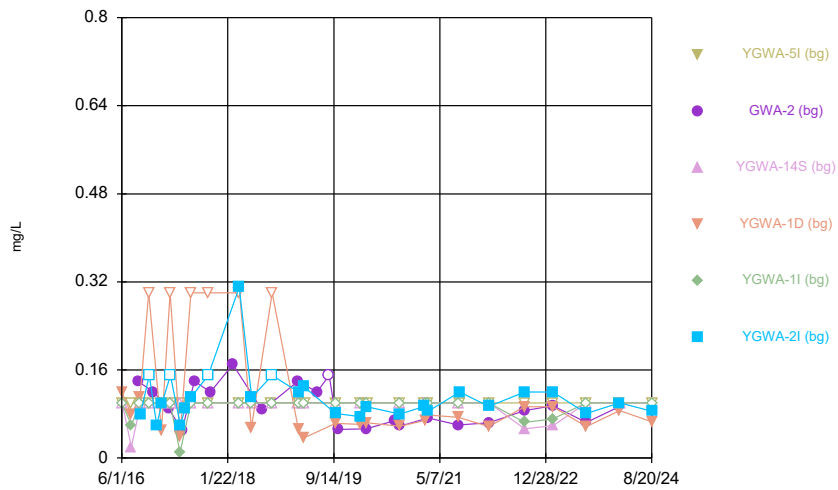
Constituent: Fluoride, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



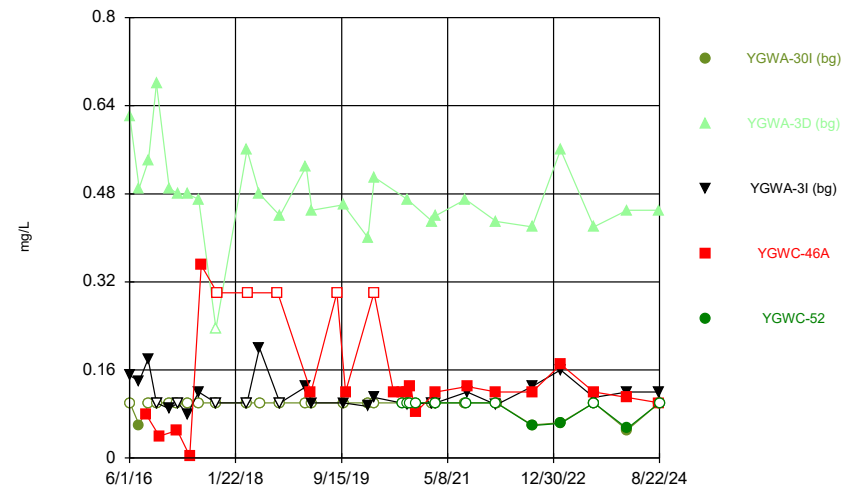
Constituent: Fluoride, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



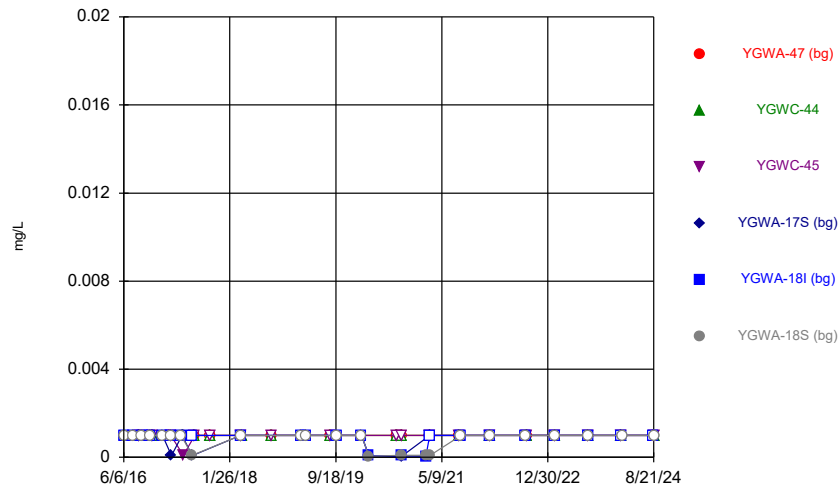
Constituent: Fluoride, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



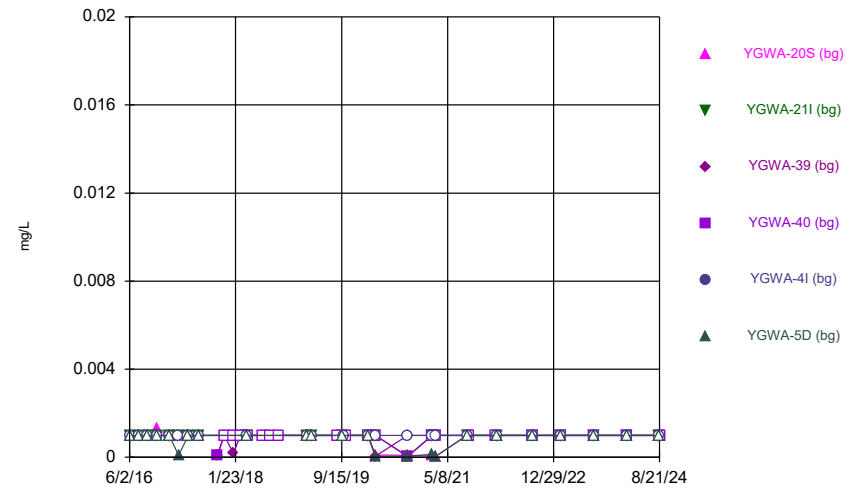
Constituent: Fluoride, total Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



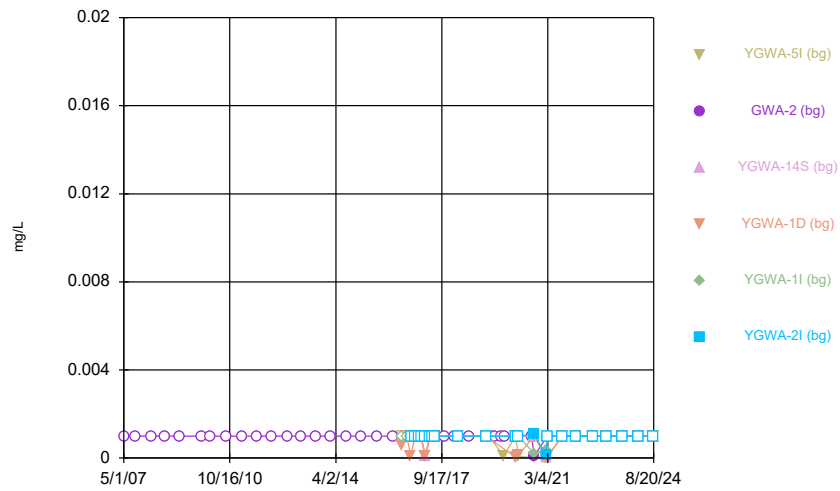
Constituent: Lead Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



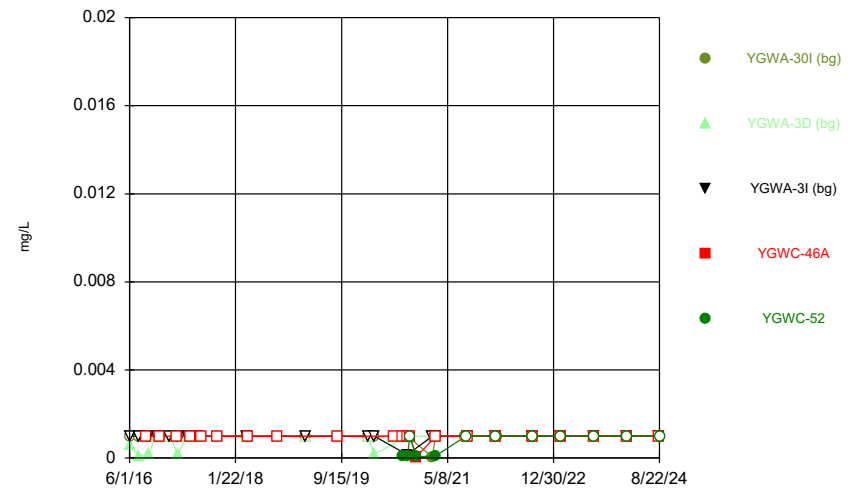
Constituent: Lead Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



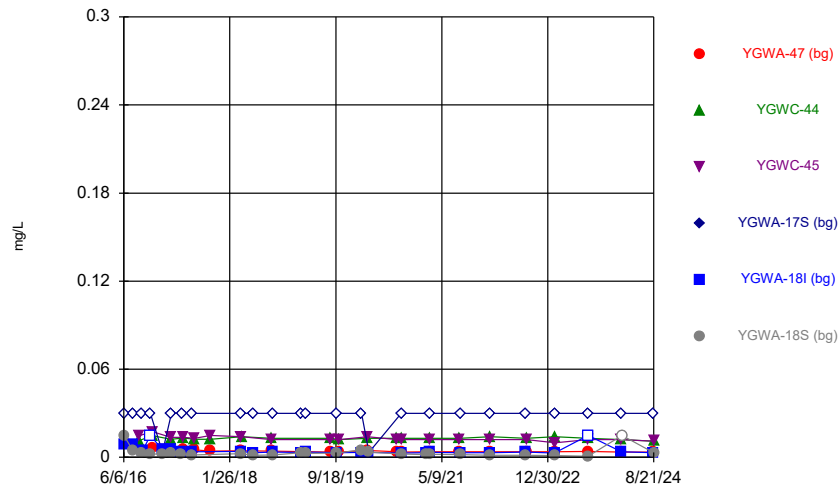
Constituent: Lead Analysis Run 11/6/2024 6:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



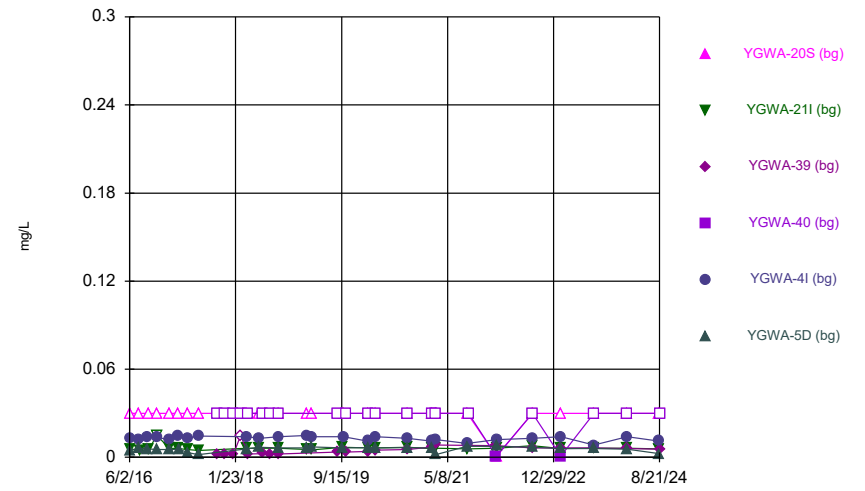
Constituent: Lead Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



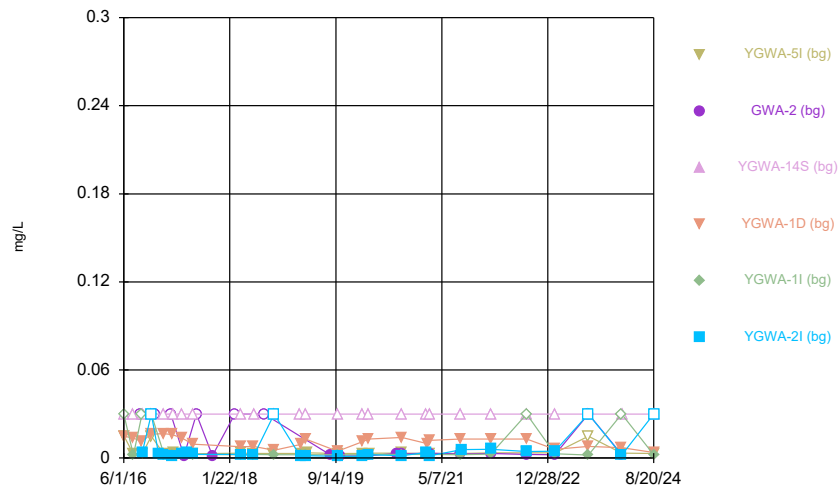
Constituent: Lithium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



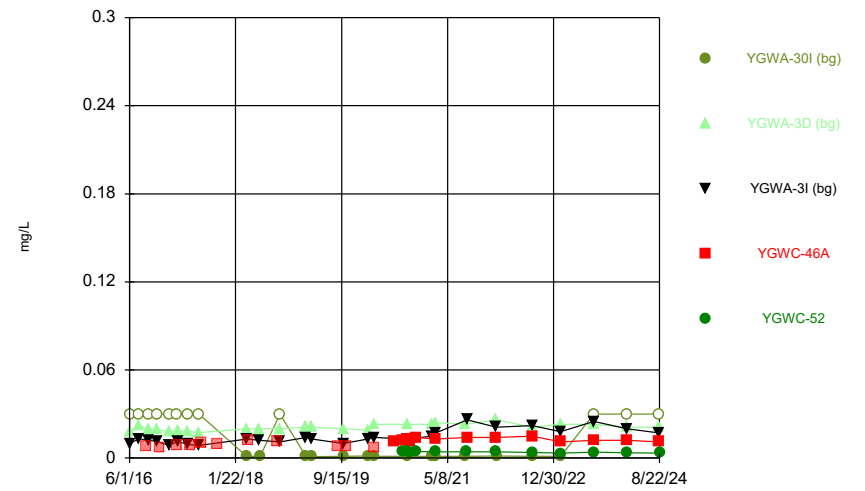
Constituent: Lithium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



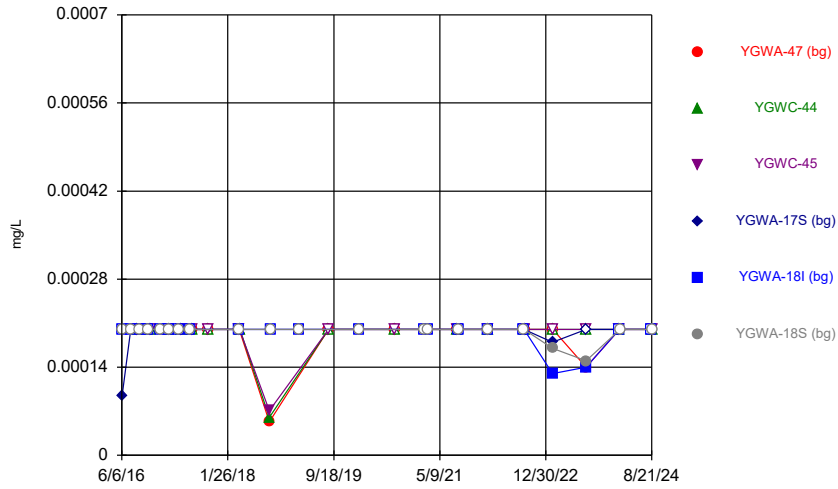
Constituent: Lithium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



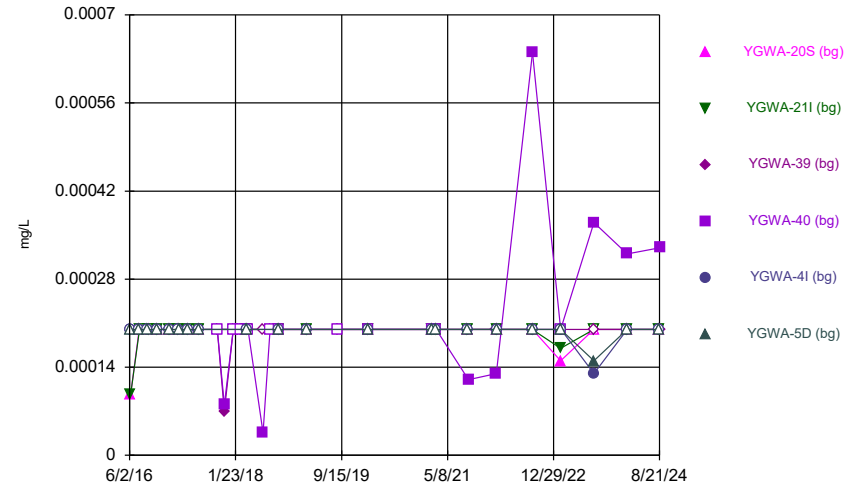
Constituent: Lithium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



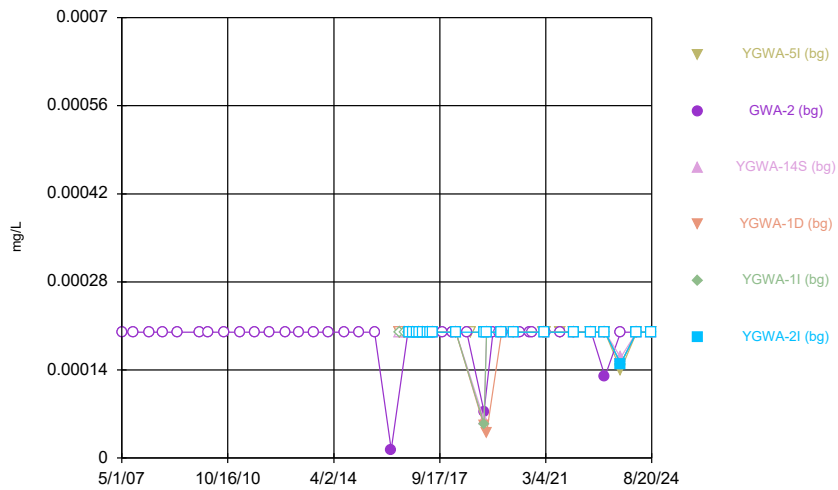
Constituent: Mercury Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



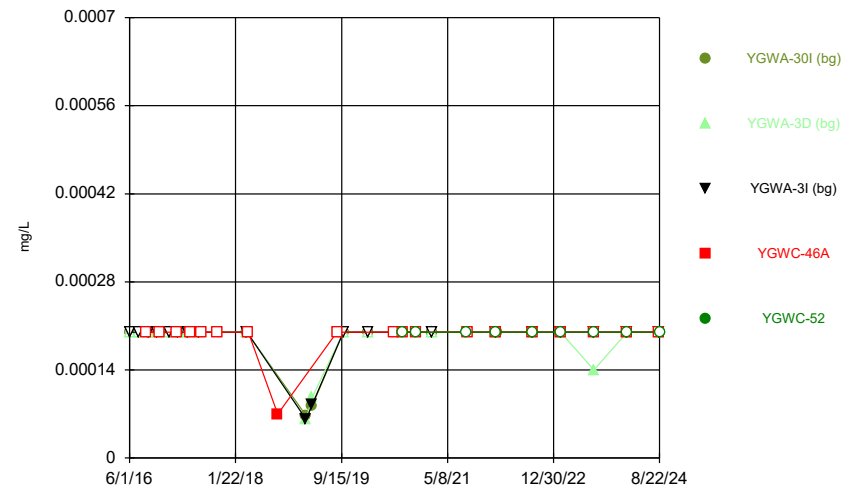
Constituent: Mercury Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



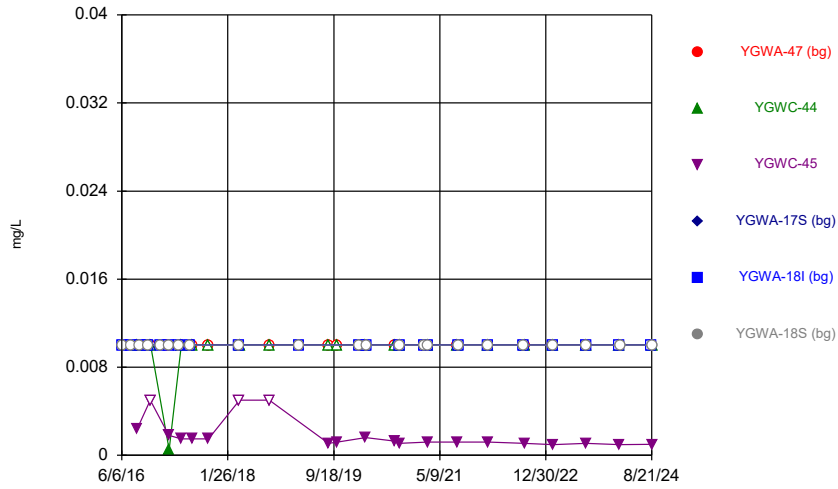
Constituent: Mercury Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



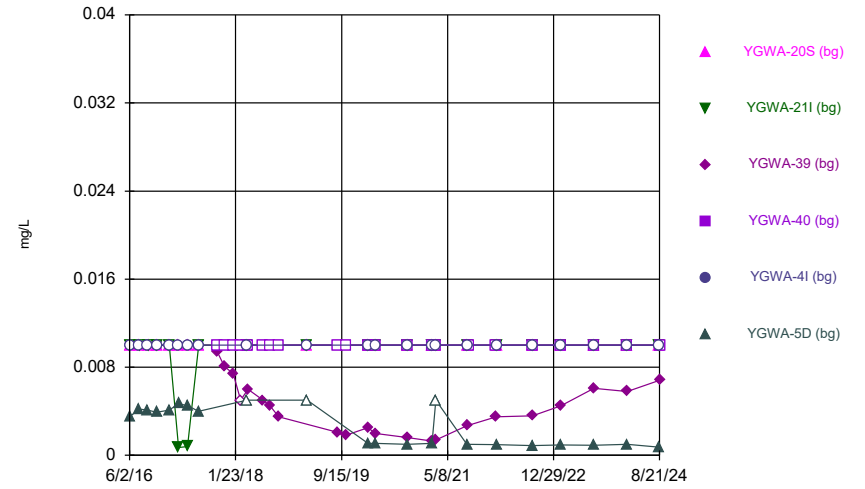
Constituent: Mercury Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



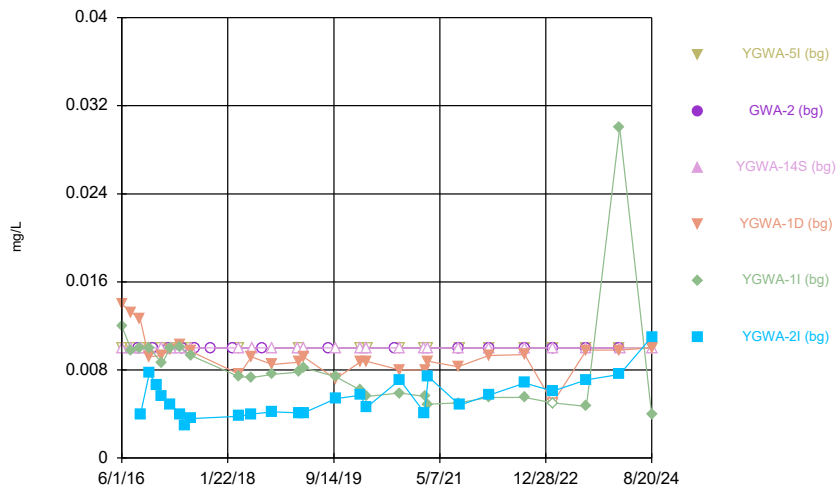
Constituent: Molybdenum Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



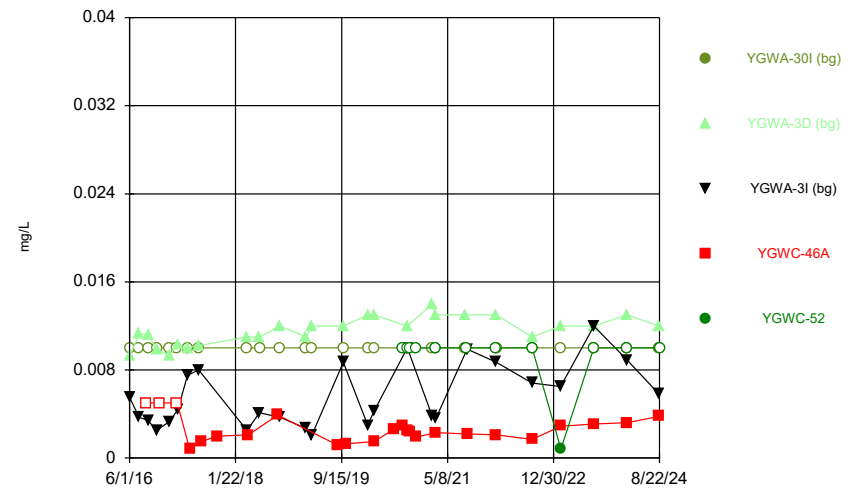
Constituent: Molybdenum Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



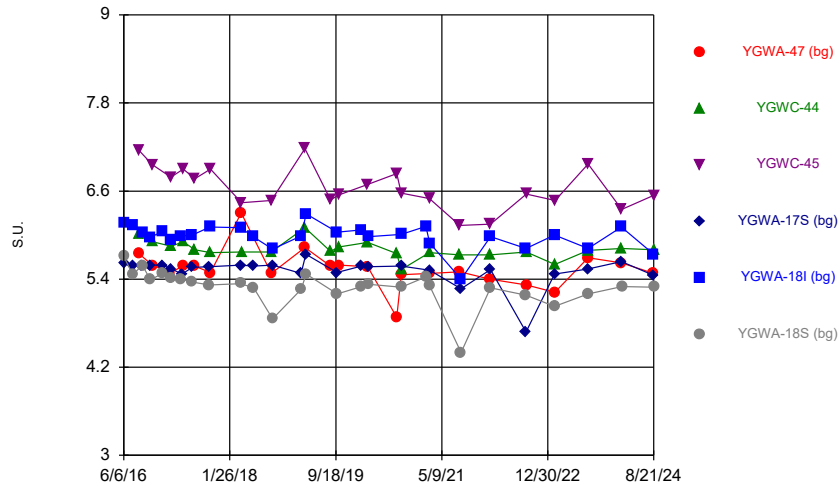
Constituent: Molybdenum Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



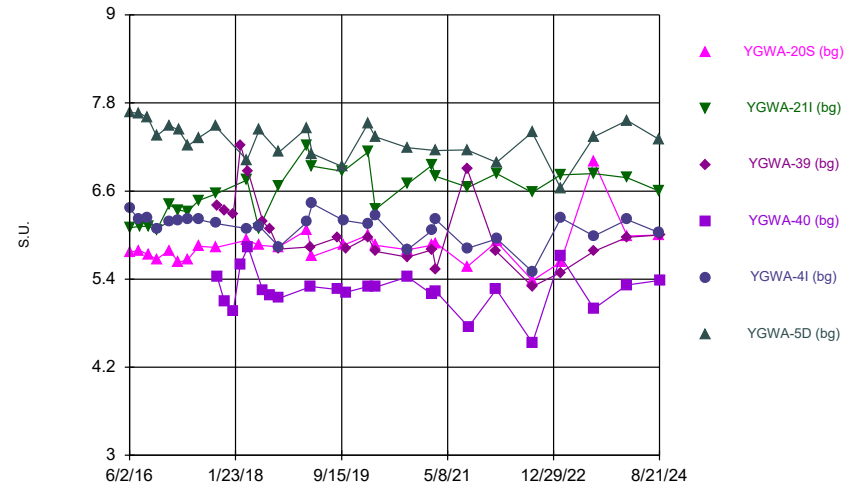
Constituent: Molybdenum Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



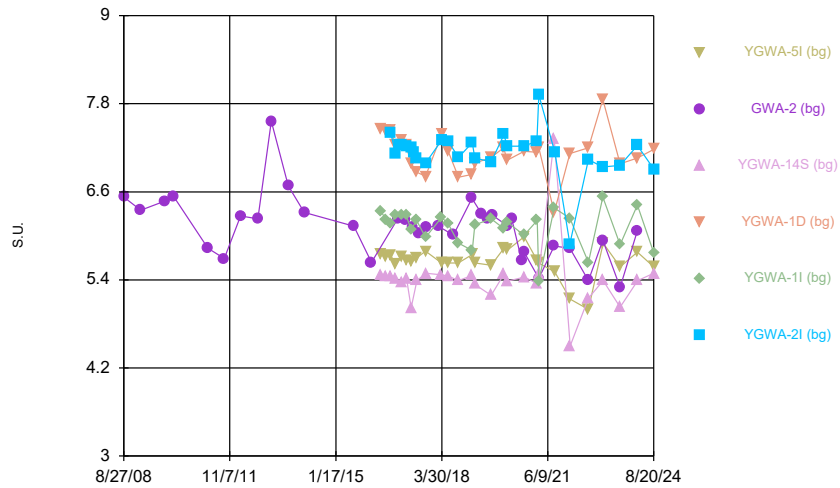
Constituent: pH, Field Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



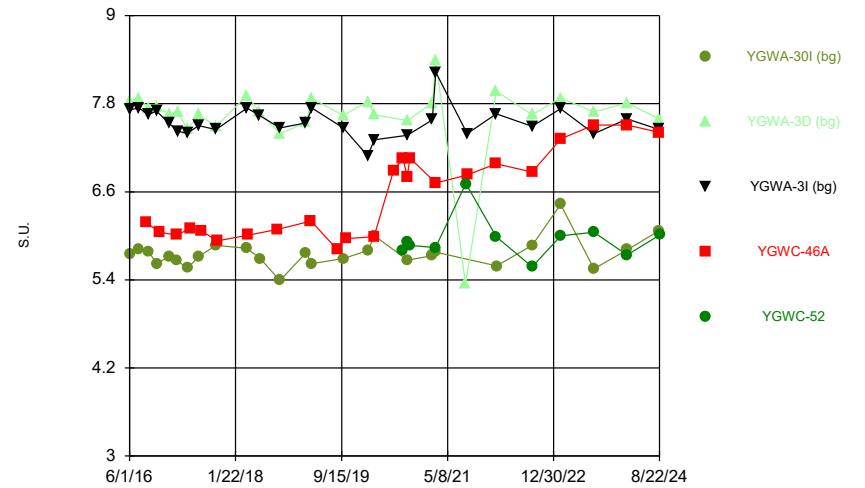
Constituent: pH, Field Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



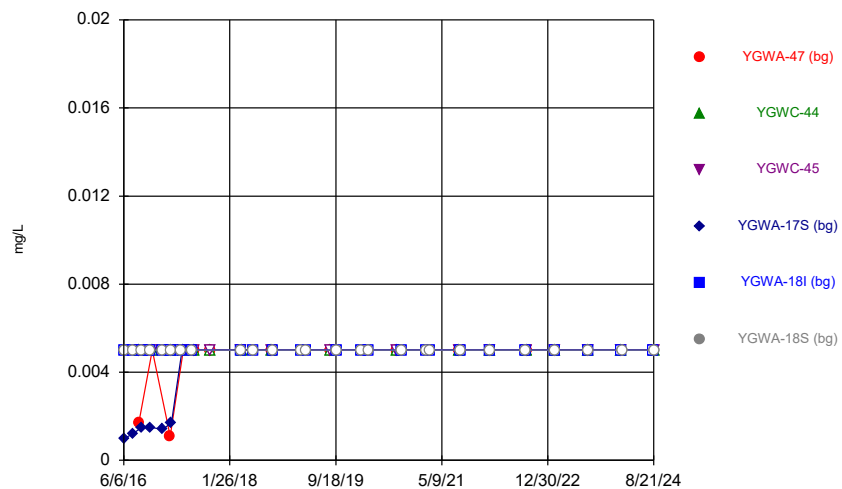
Constituent: pH, Field Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



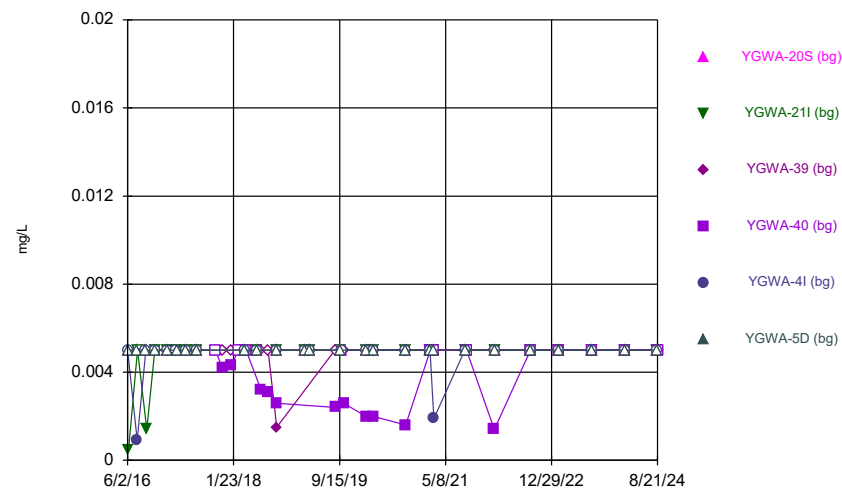
Constituent: pH, Field Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



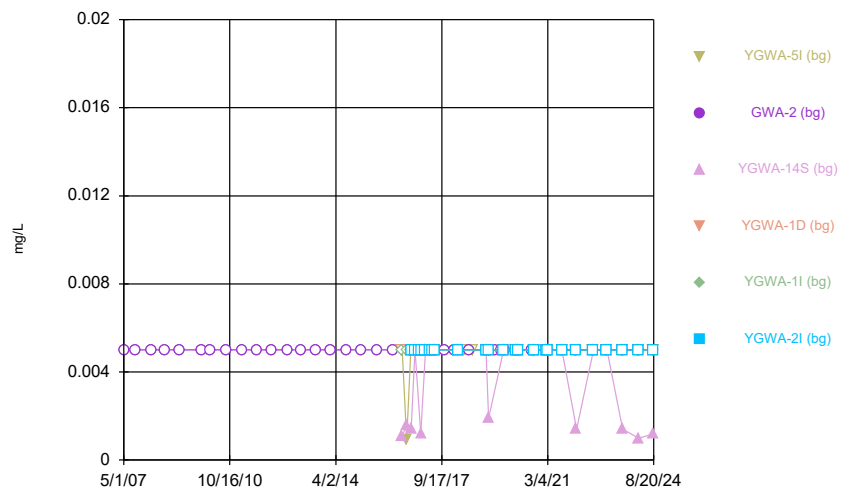
Constituent: Seleniun Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



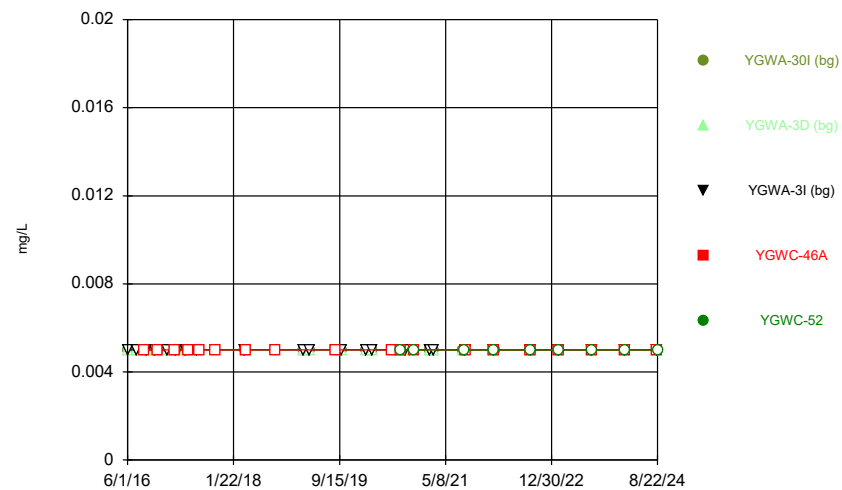
Constituent: Seleniun Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



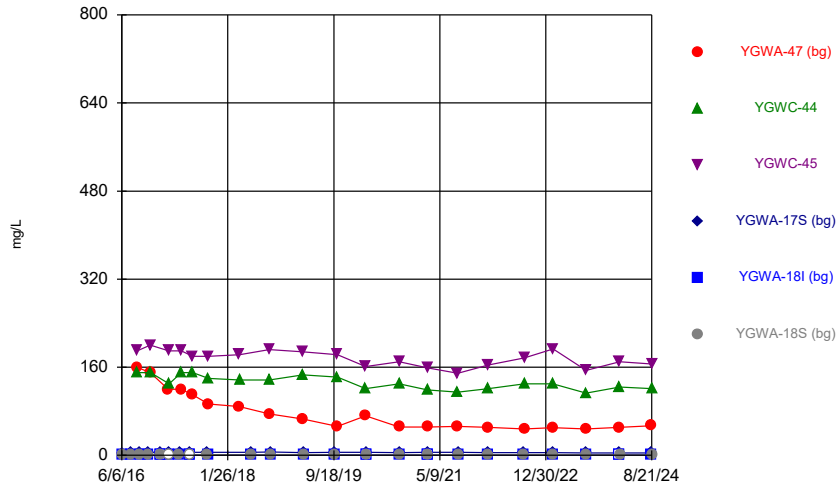
Constituent: Seleniun Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



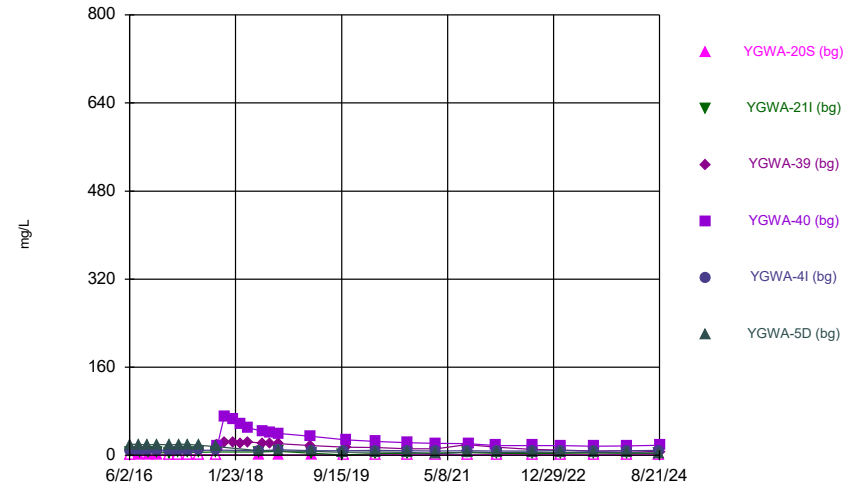
Constituent: Seleniun Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



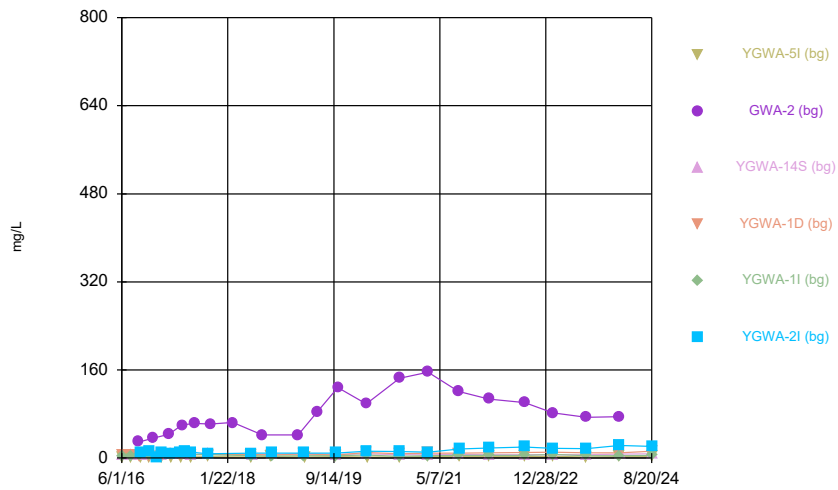
Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



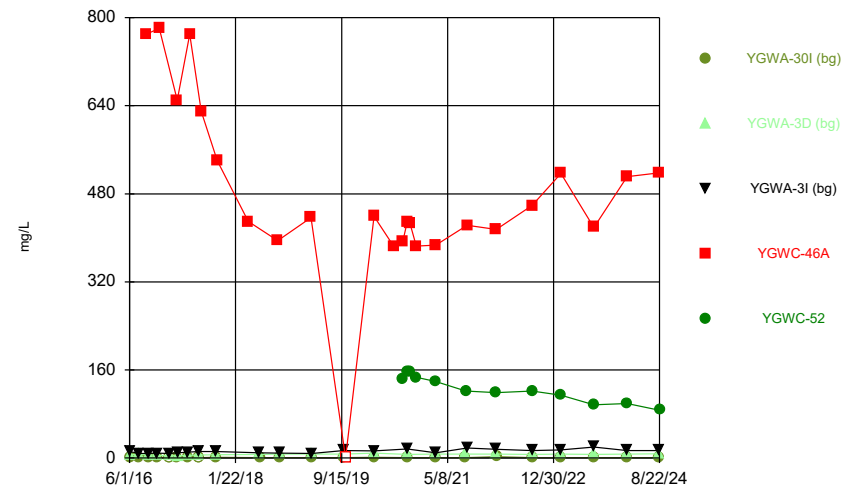
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



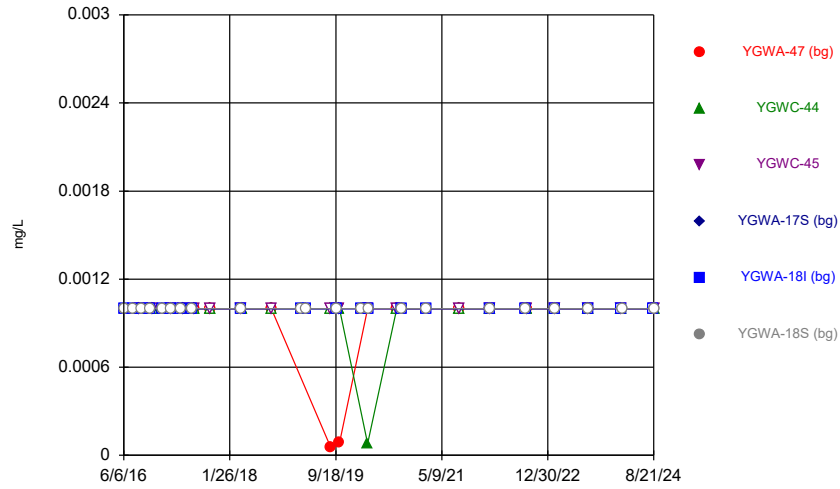
Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



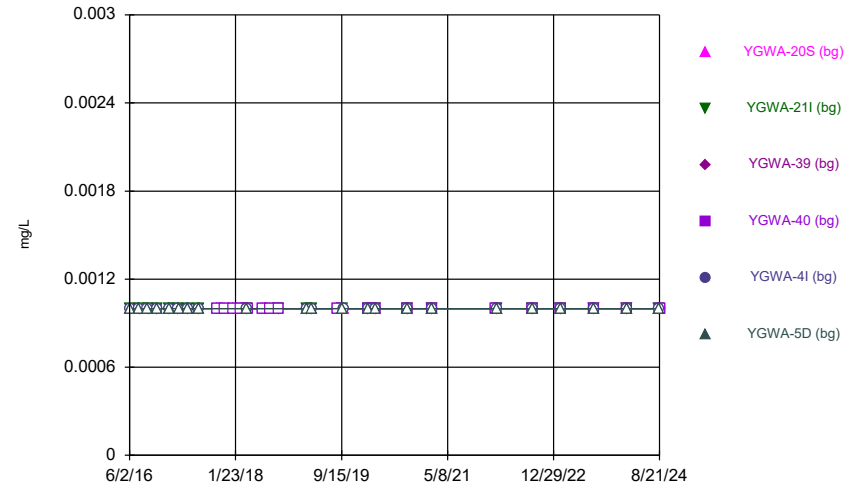
Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



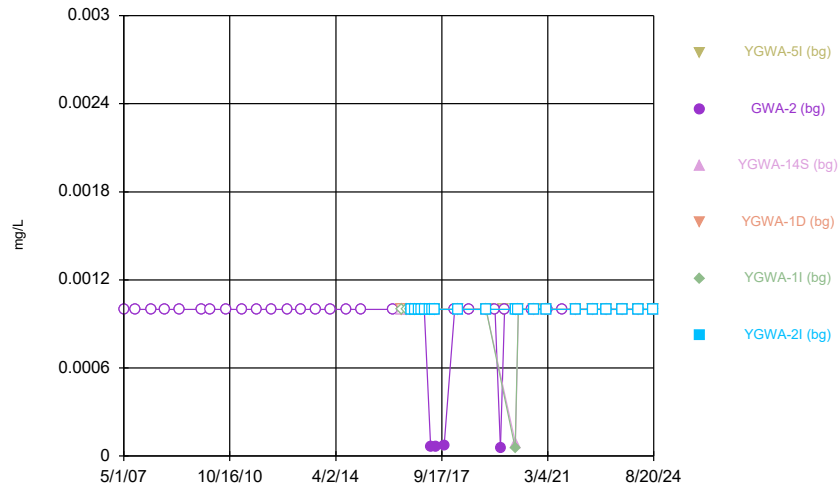
Constituent: Thallium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



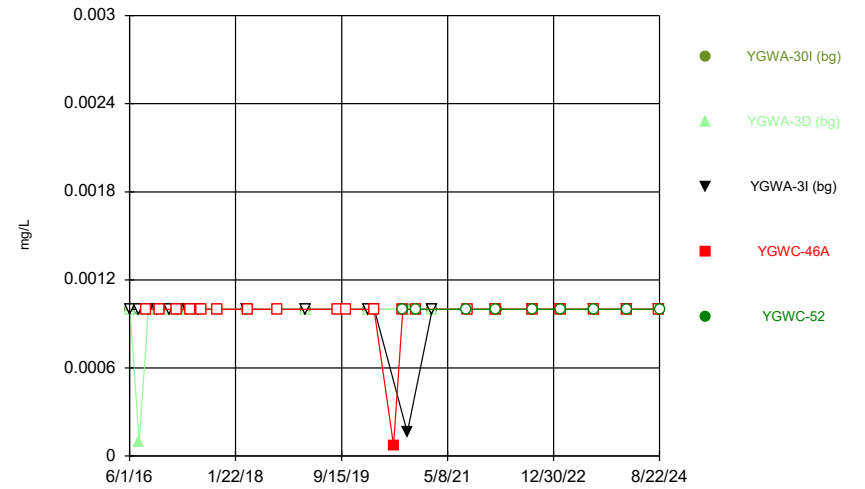
Constituent: Thallium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



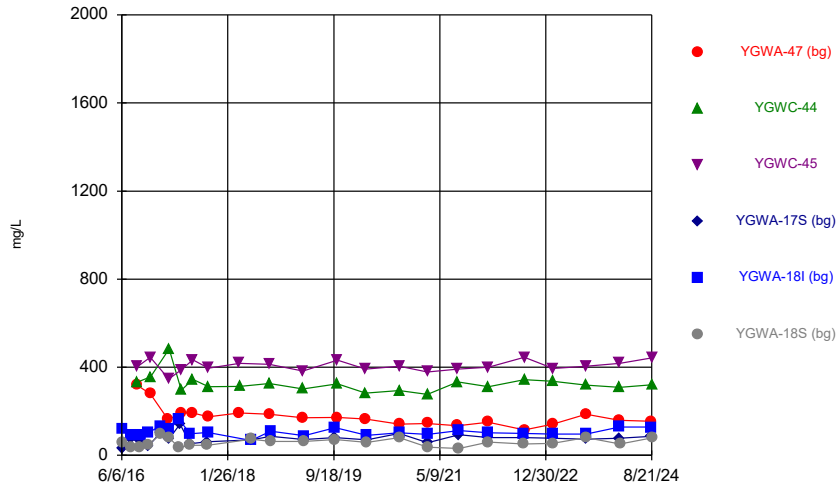
Constituent: Thallium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



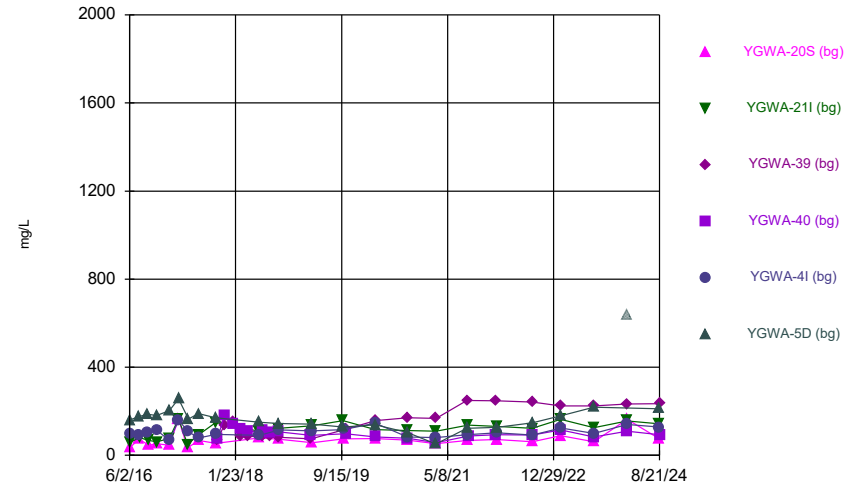
Constituent: Thallium Analysis Run 11/6/2024 6:11 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



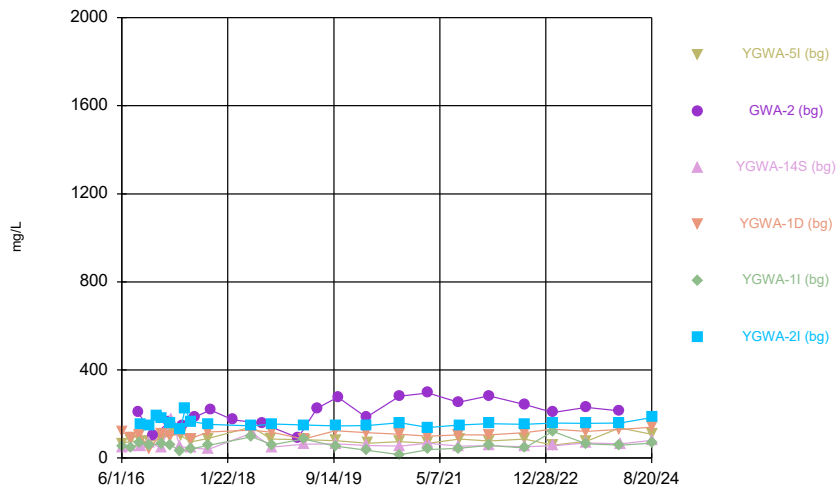
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:11 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



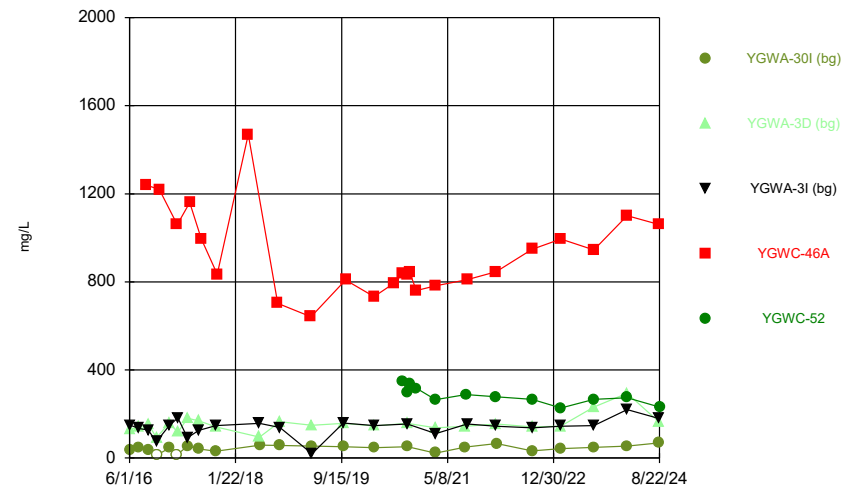
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:11 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

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: 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 |

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 |

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 | <0.003 | | | | |
| 9/1/2021 | | <0.003 | | | | |
| 9/3/2021 | | | | <0.003 | | |
| 2/8/2022 | | | <0.003 | <0.003 | | |

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 | | |

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 | | | | |

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 |

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 | | |

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 |

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 |

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 |

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 | |

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 | | | | |

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 |

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 |

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 |

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 |

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 | |

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) |

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 |

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 | |

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 |

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 | |

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) | | |

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 | | | | |

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 |

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 | | | | |

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 |

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 |

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 | | | | | |

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 | | |

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) | | | | |

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 |

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 | | | | |

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 |

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 |

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 | |

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 | | |

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 | | | | |

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 |

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 |

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 |

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) |

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 | | | | | |

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 | | | | |

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 | | | |

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 | |

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 | | |

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 | <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 | | | | |

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 |

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 | | | | |

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 |

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 |

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 |

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 | |

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 | | |

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 | <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) | | | | |

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 |

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 |

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) |

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) |

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 |

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) |

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 | | |

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) | | |

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) |

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) |

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 | | |

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 |

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 |

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 | | |

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 | | |

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 | | | | |

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 |

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 | | |

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) |

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) |

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) | |

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) |

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 |

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) |

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) |

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 | | | |

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 |

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 |

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 | | |

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 | | | | |

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 |

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 | |

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 |

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) | | | |

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 | |

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 | | |

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) | |

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 |

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 |

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 |

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 |

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 |

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) | |

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 | | |

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 | | | | |

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 |

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 |

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 |

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 |

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 |

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 | | | | | |

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 | | |

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 | | | | |

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 |

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 |

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 |

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 | | |

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 | | | | |

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 |

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 | | |

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 |

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 | | | | |

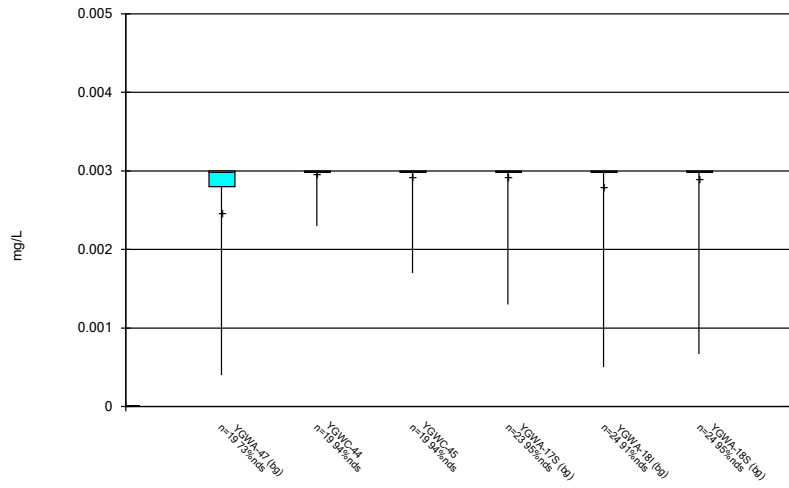
Time Series

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 |

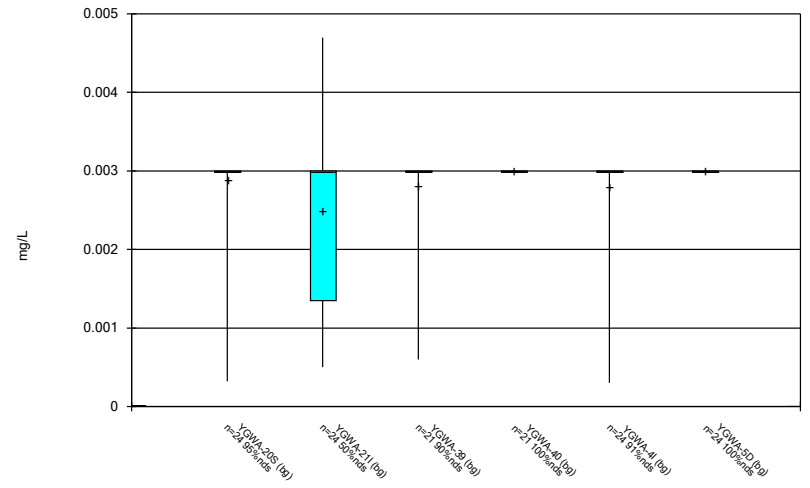
FIGURE B.

Box & Whiskers Plot



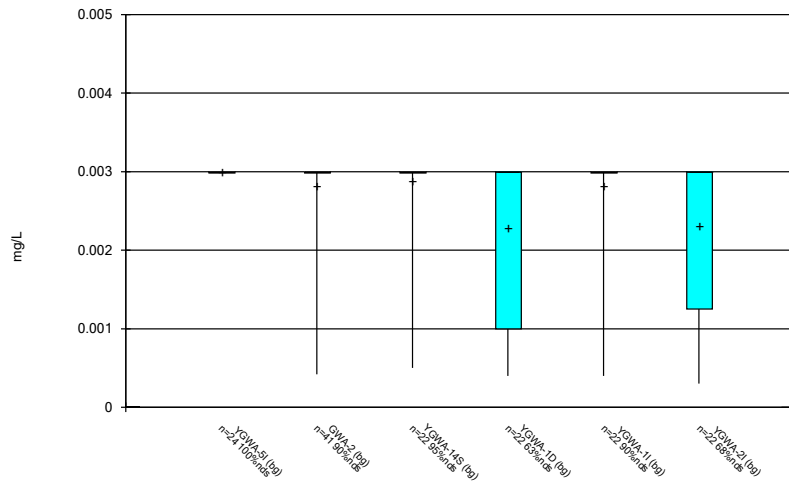
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



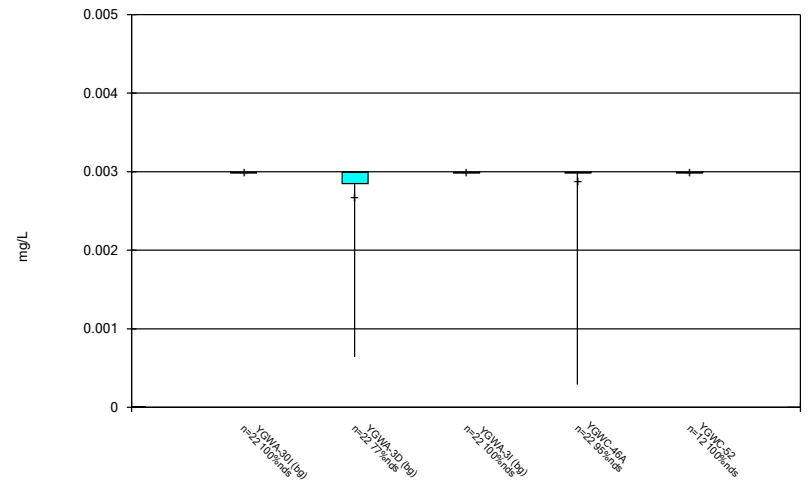
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



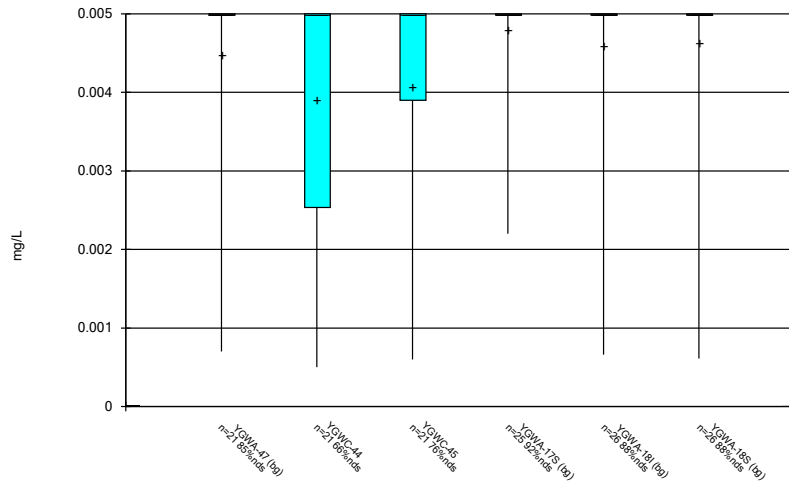
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



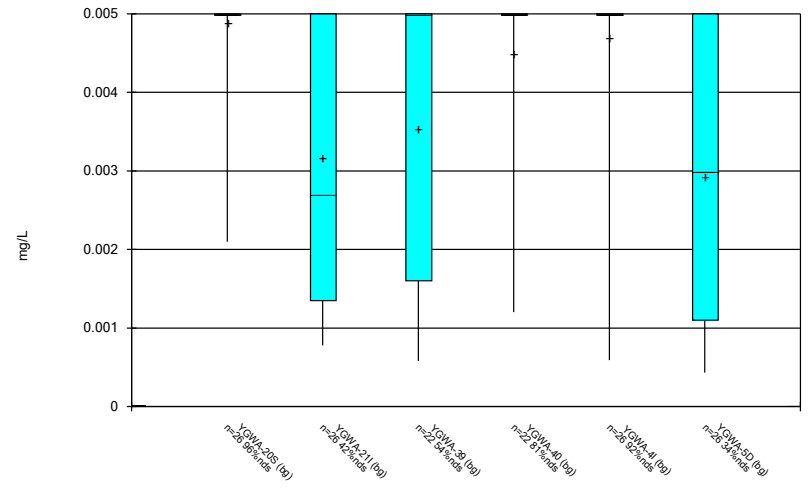
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Box & Whiskers Plot



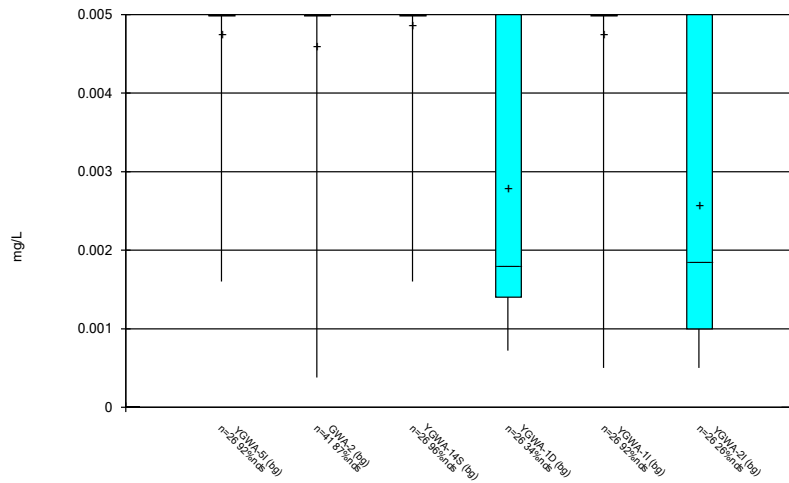
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Box & Whiskers Plot



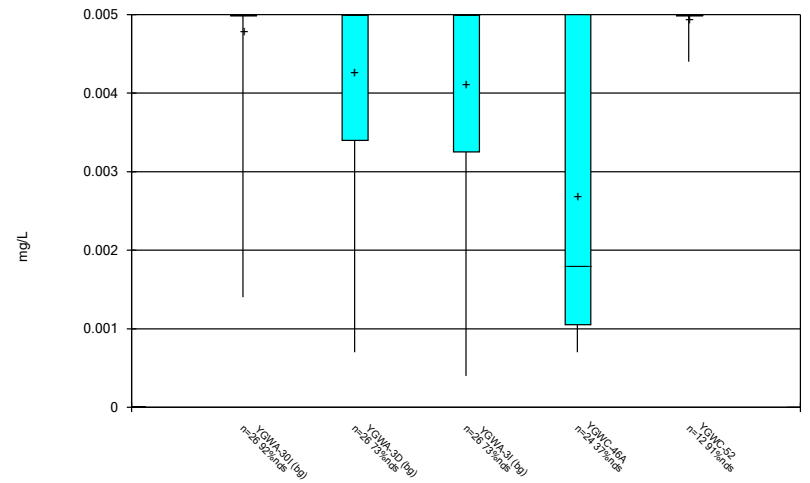
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Box & Whiskers Plot



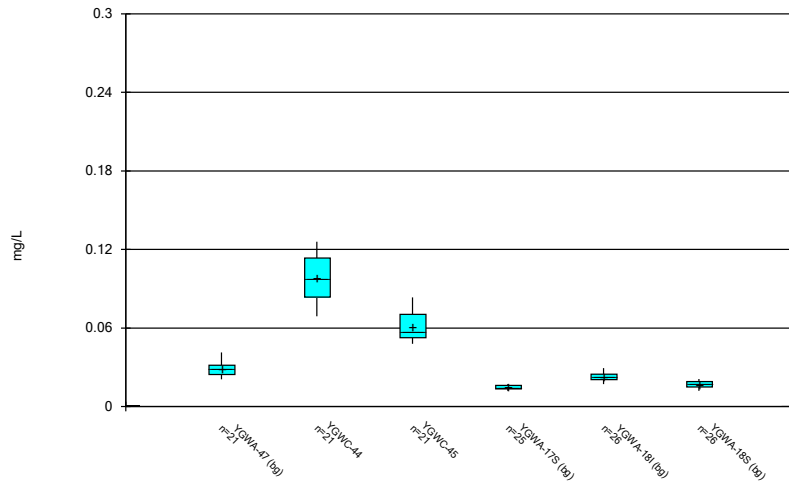
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Box & Whiskers Plot



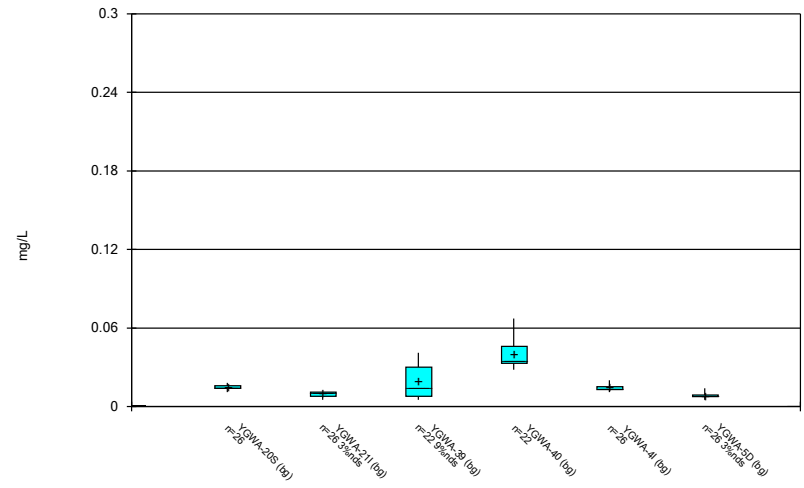
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Box & Whiskers Plot



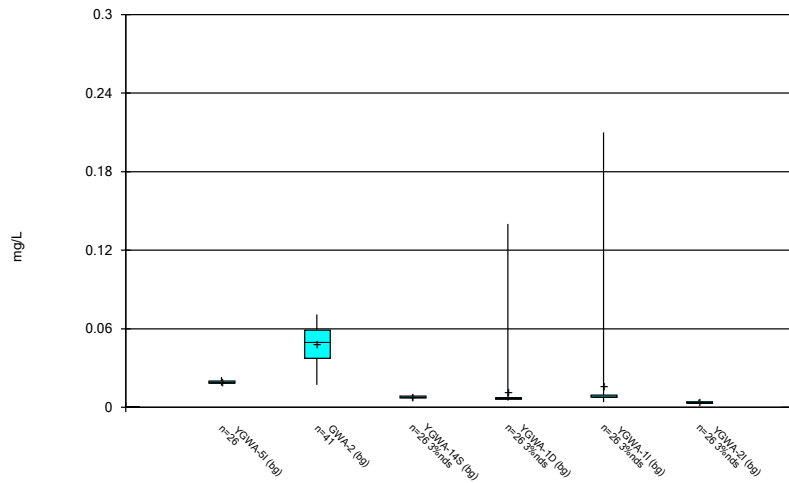
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Box & Whiskers Plot



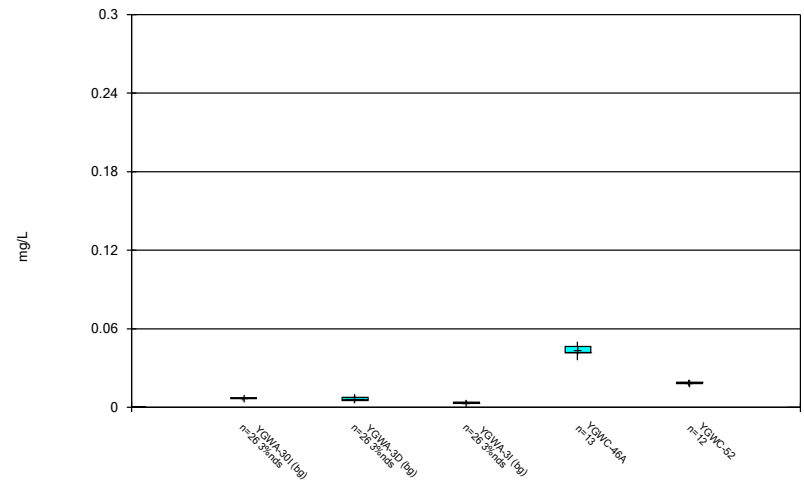
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Box & Whiskers Plot



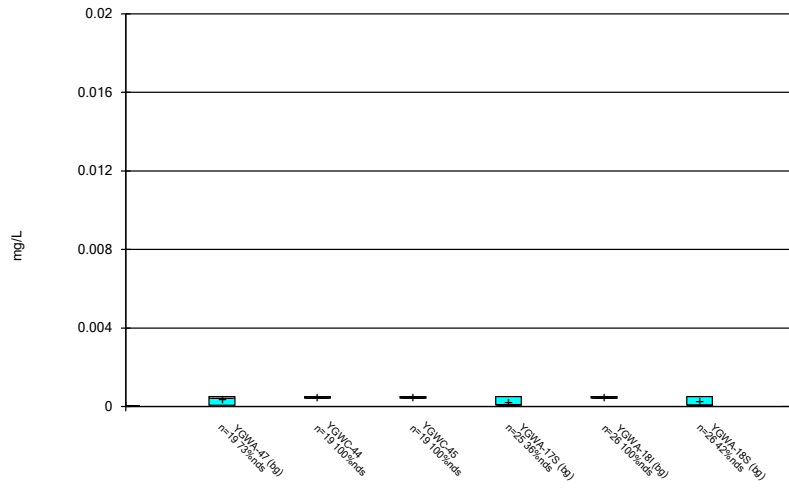
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



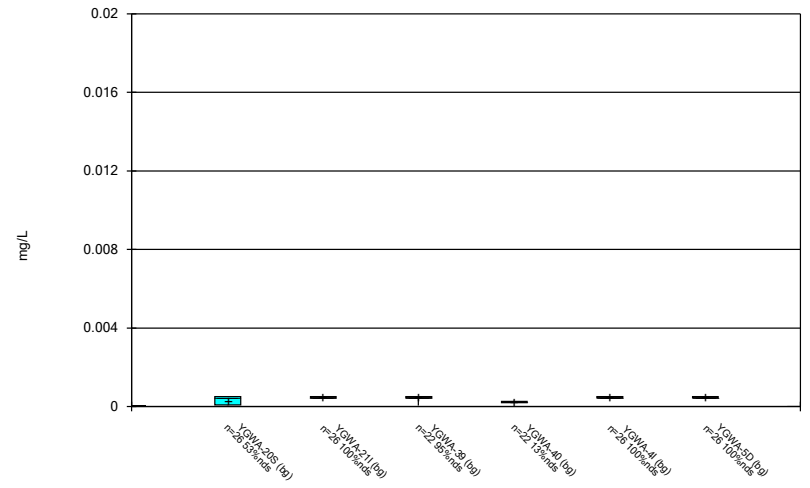
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



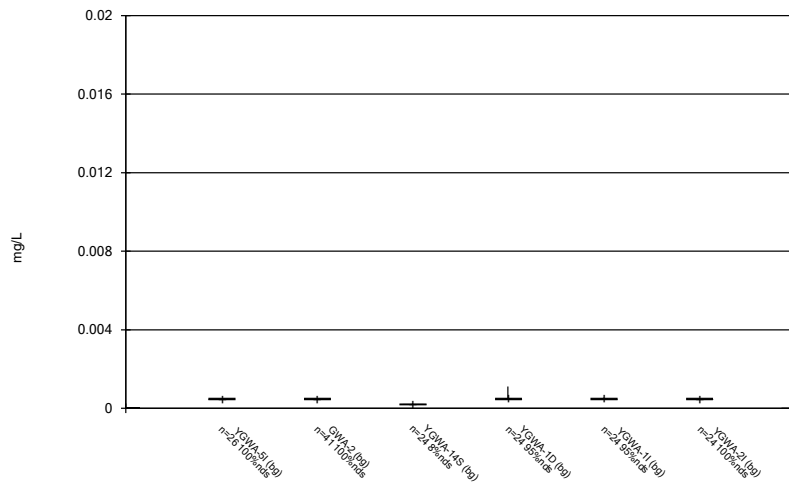
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Box & Whiskers Plot



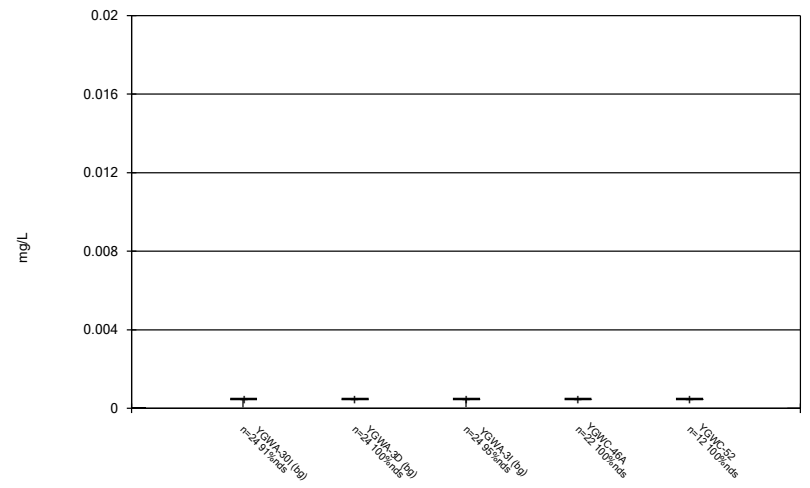
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Box & Whiskers Plot



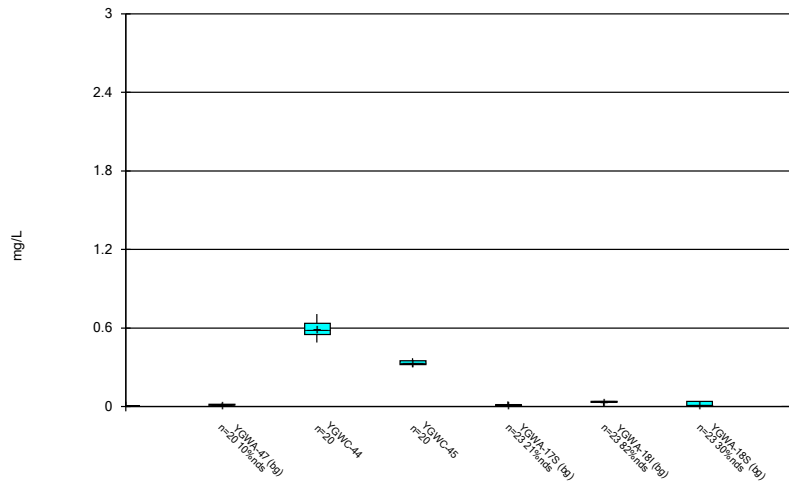
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Box & Whiskers Plot



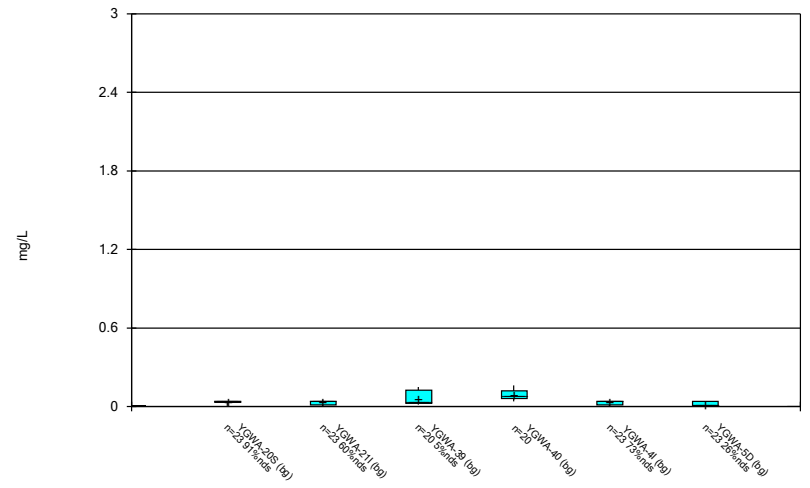
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Box & Whiskers Plot



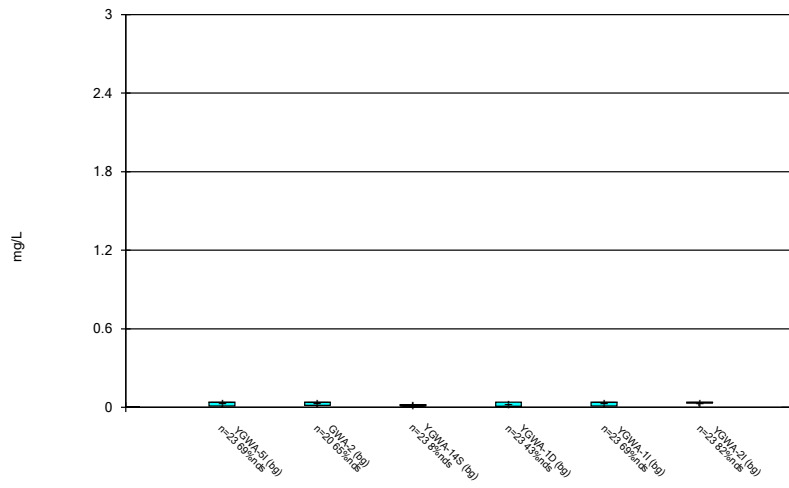
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Box & Whiskers Plot



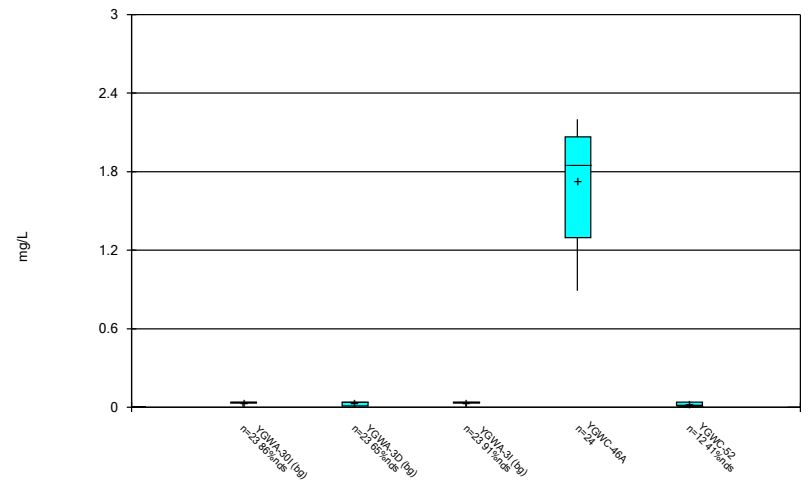
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Box & Whiskers Plot



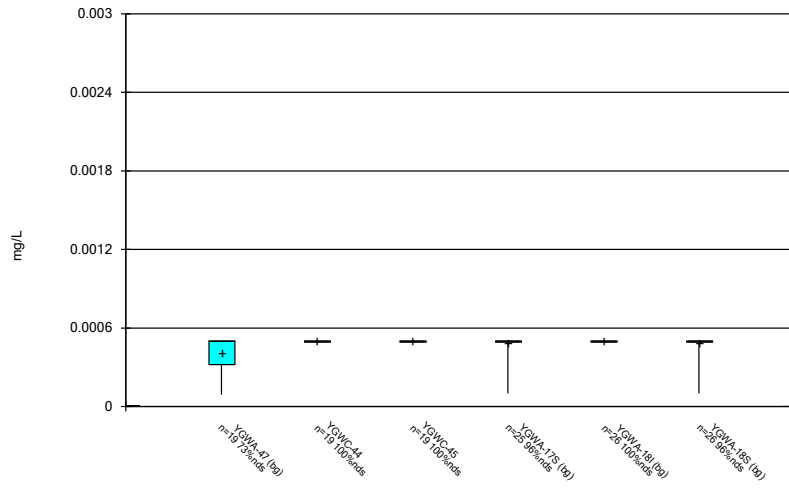
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Box & Whiskers Plot



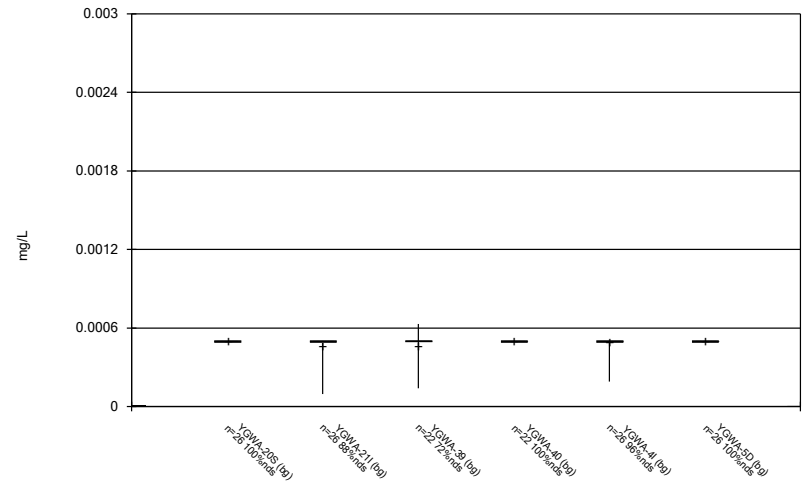
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Box & Whiskers Plot



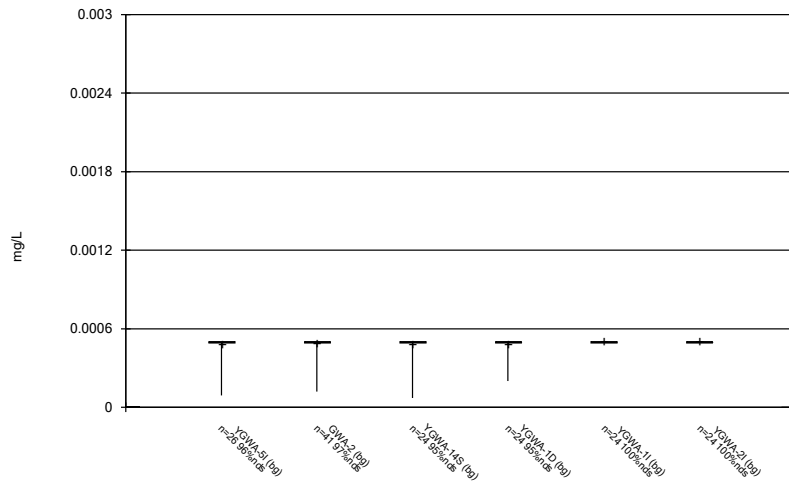
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Box & Whiskers Plot



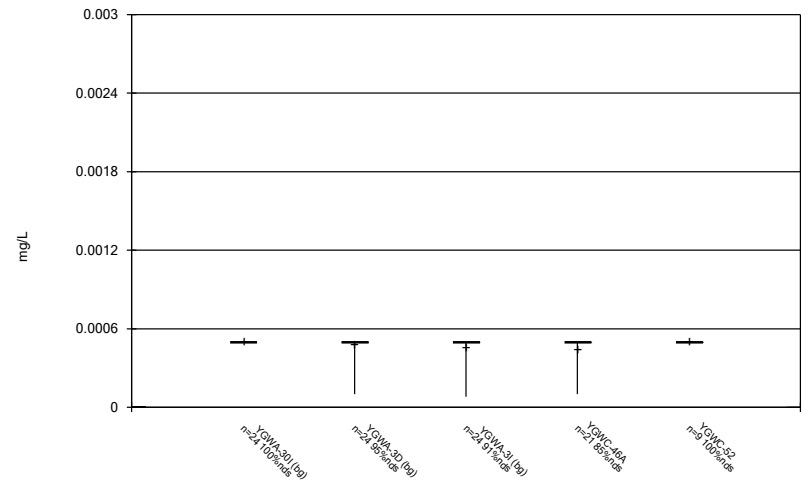
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Box & Whiskers Plot



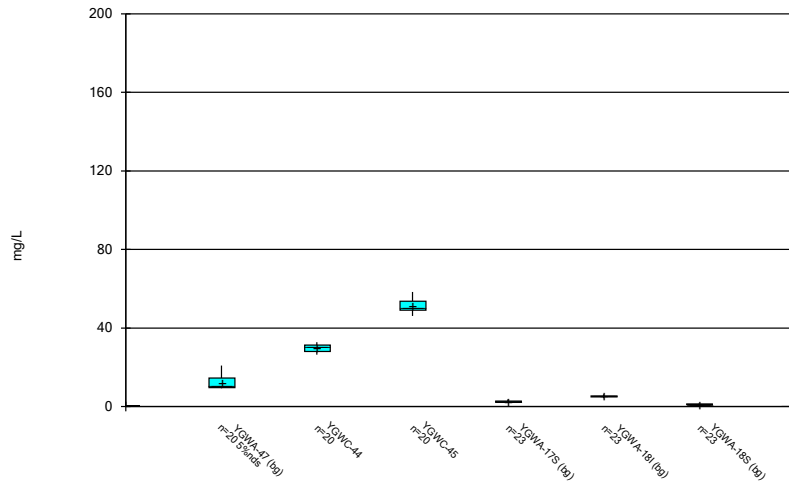
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Box & Whiskers Plot



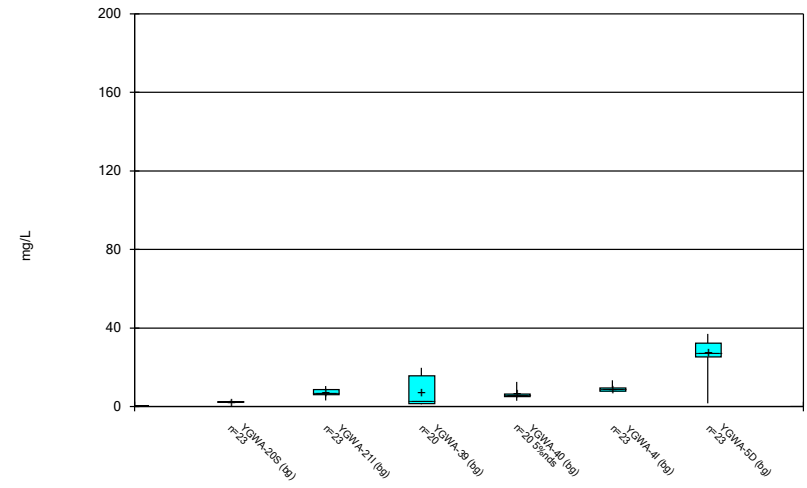
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Box & Whiskers Plot



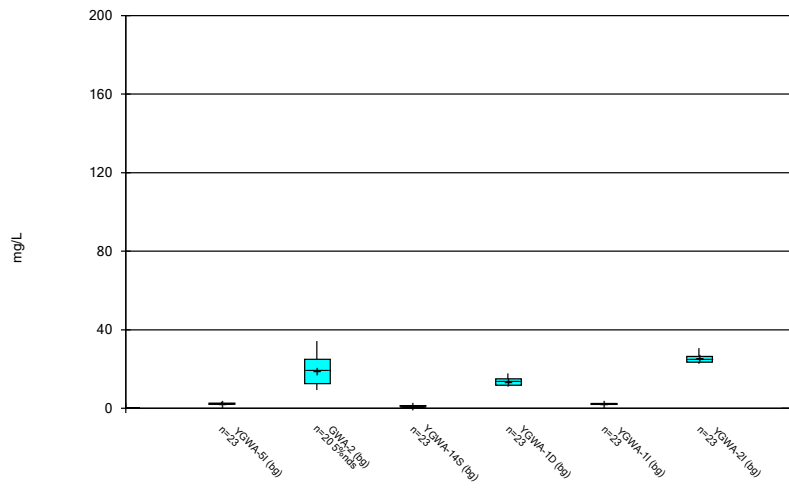
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Box & Whiskers Plot



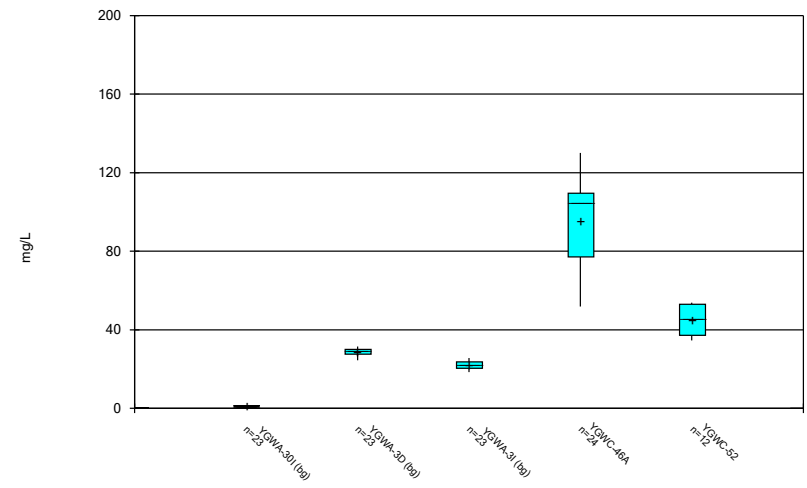
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Box & Whiskers Plot



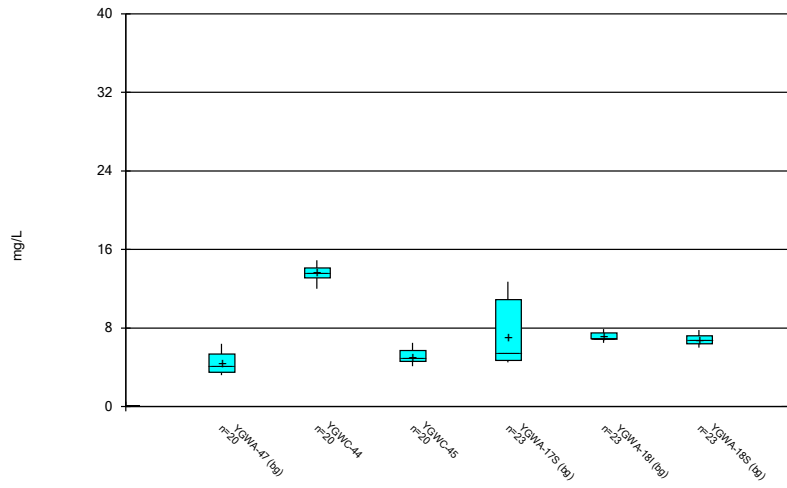
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Box & Whiskers Plot



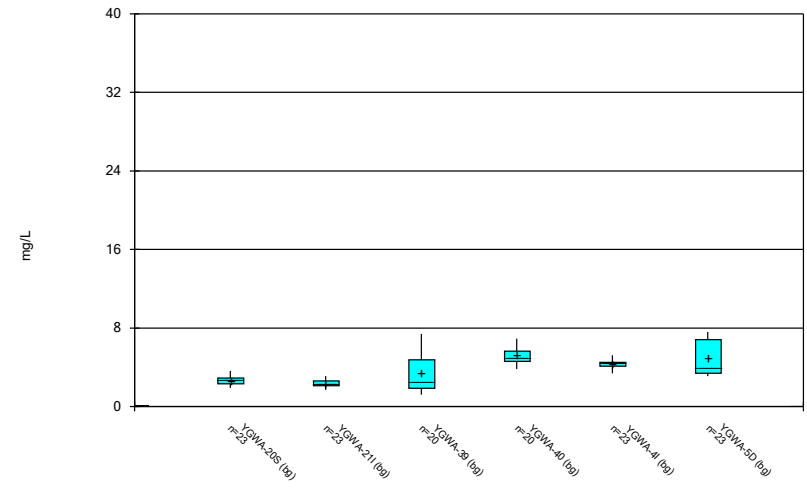
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Box & Whiskers Plot



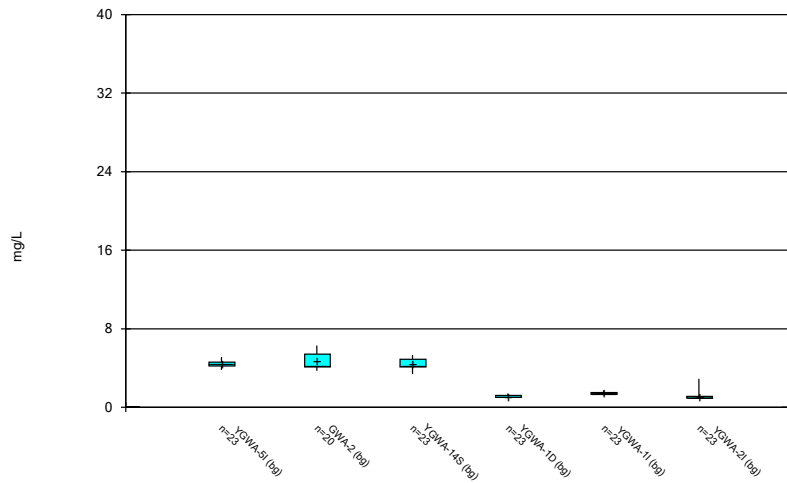
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Box & Whiskers Plot



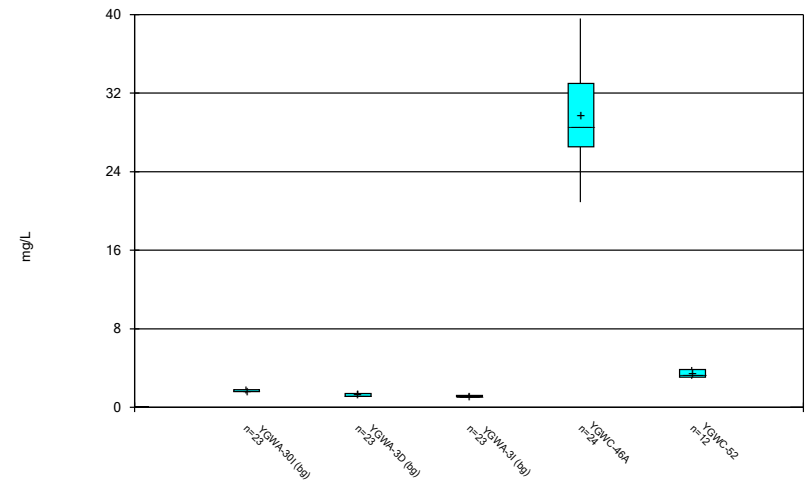
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Box & Whiskers Plot



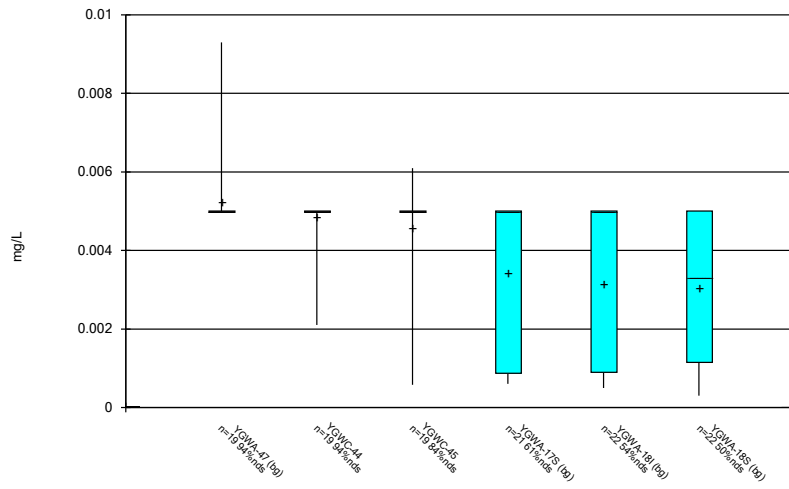
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Box & Whiskers Plot



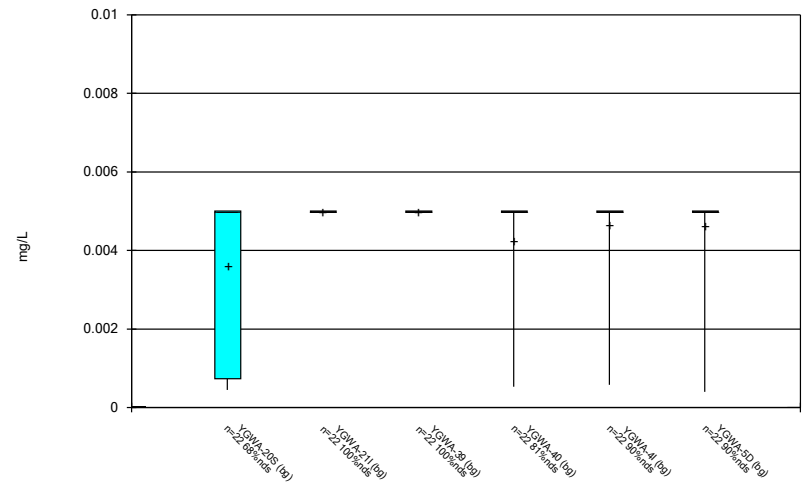
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Box & Whiskers Plot



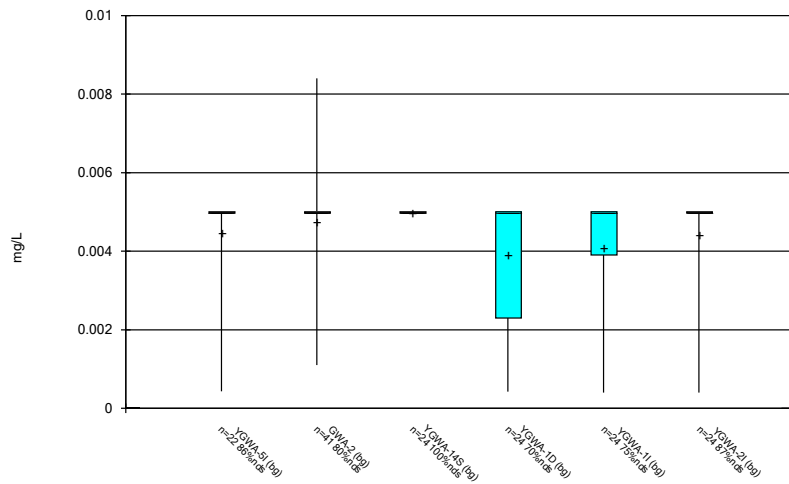
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Box & Whiskers Plot



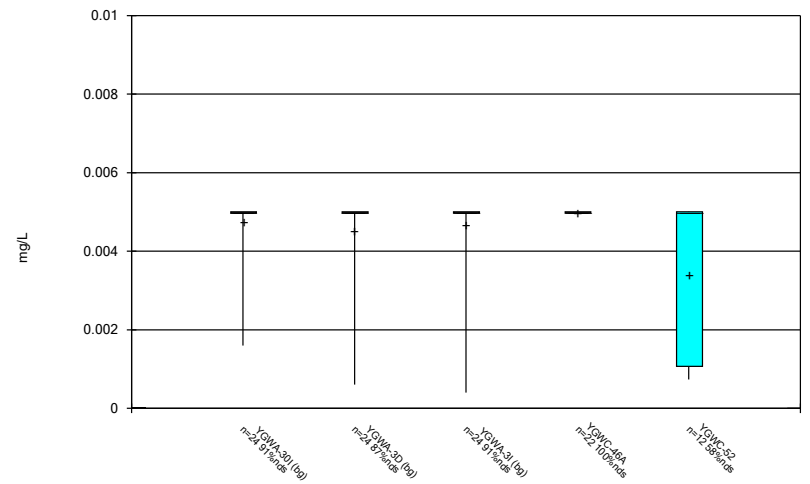
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Box & Whiskers Plot



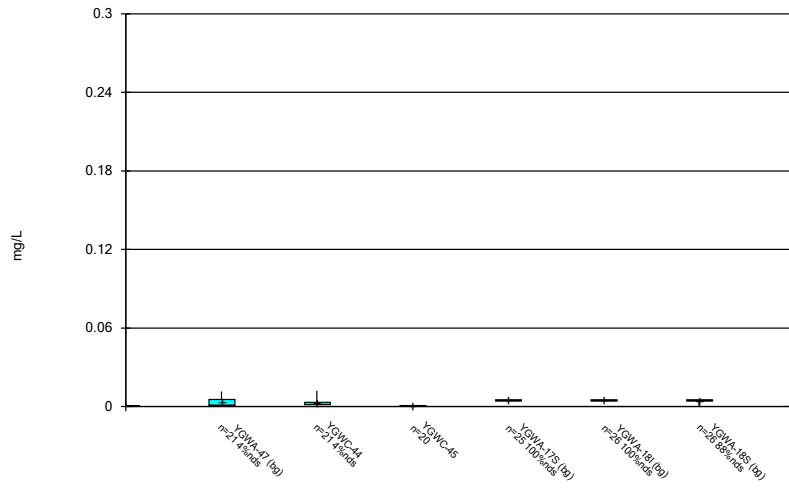
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Box & Whiskers Plot



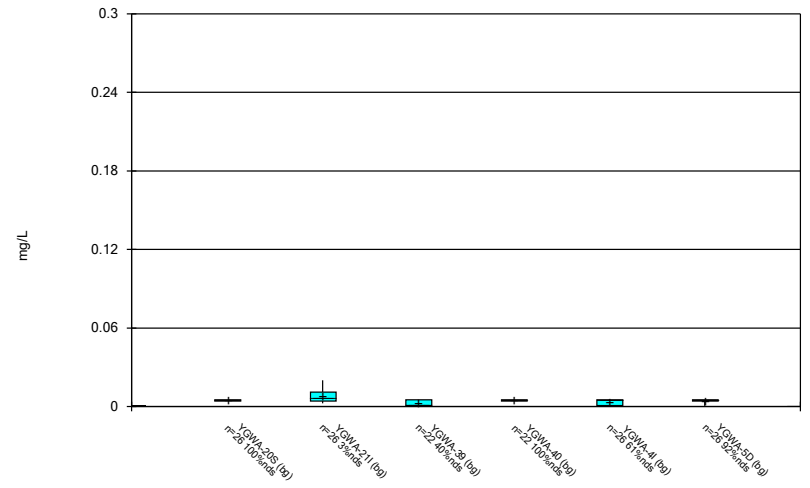
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Box & Whiskers Plot



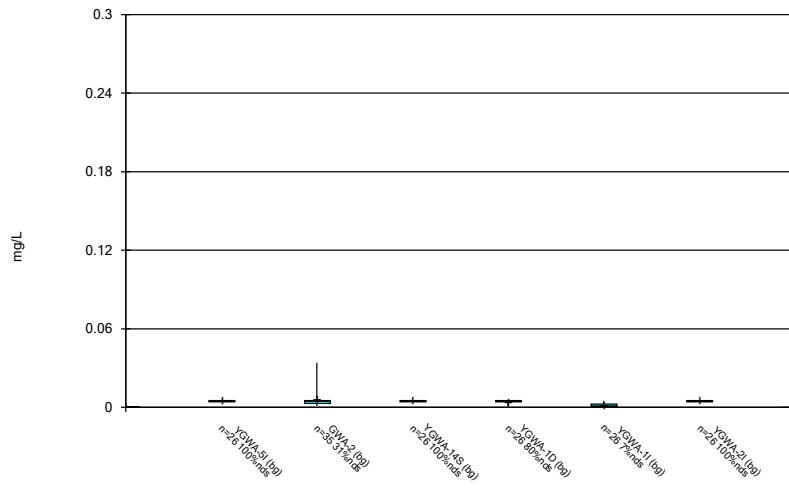
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Box & Whiskers Plot



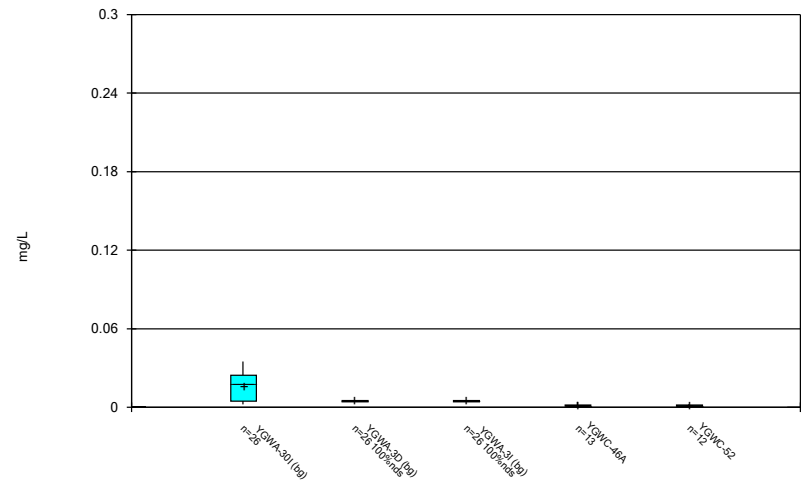
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Box & Whiskers Plot



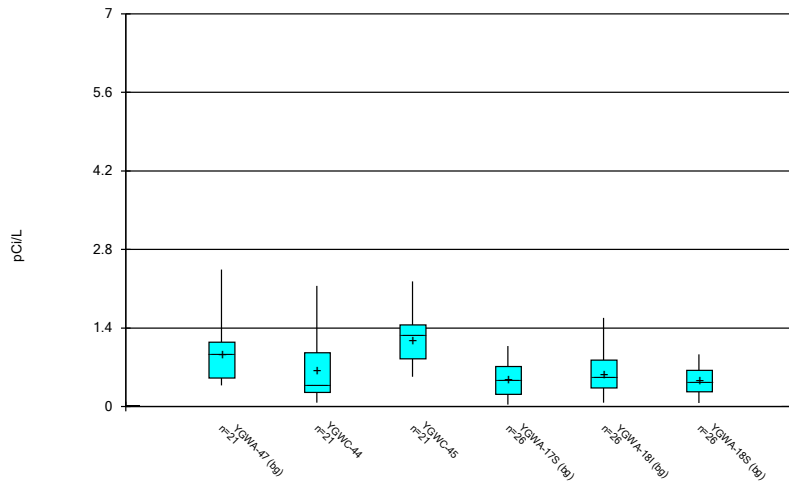
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Box & Whiskers Plot



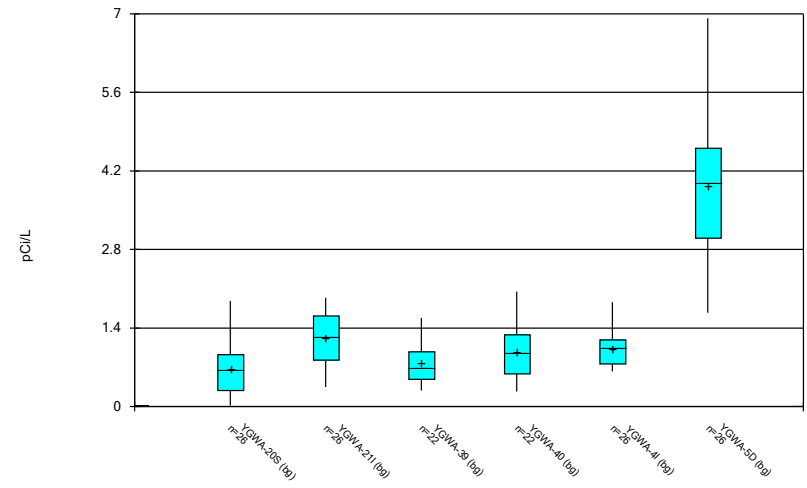
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Box & Whiskers Plot



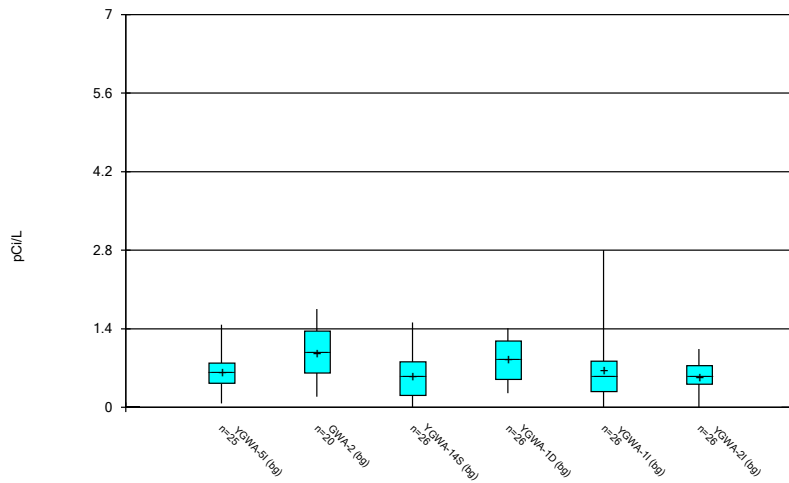
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



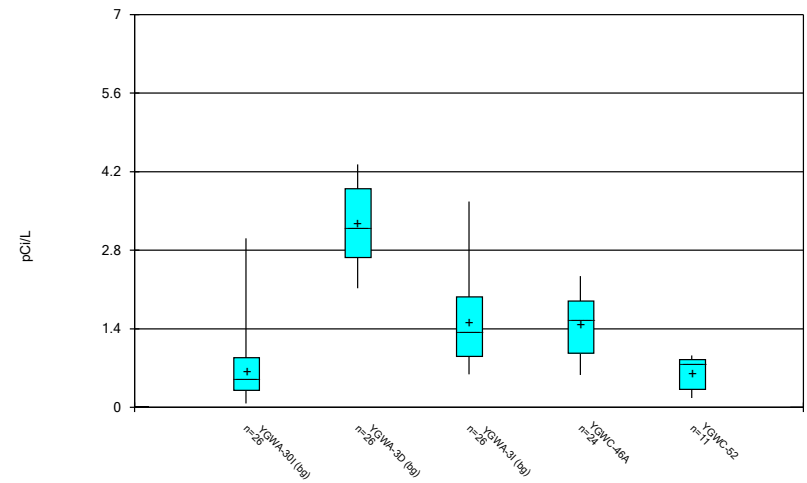
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



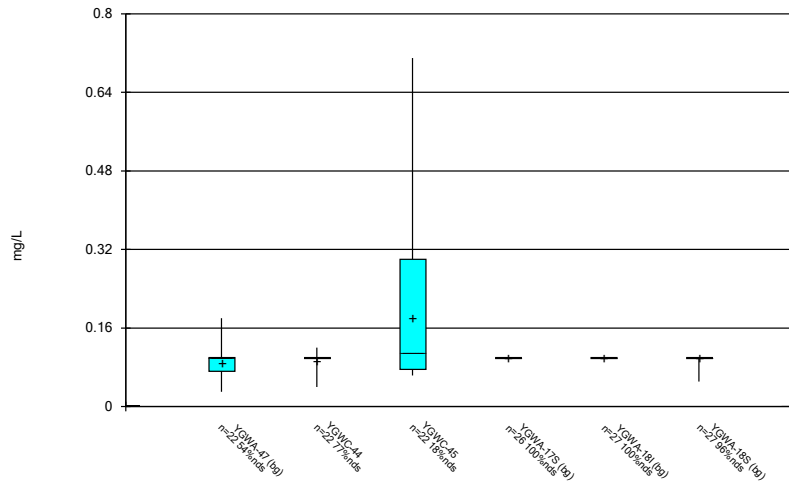
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



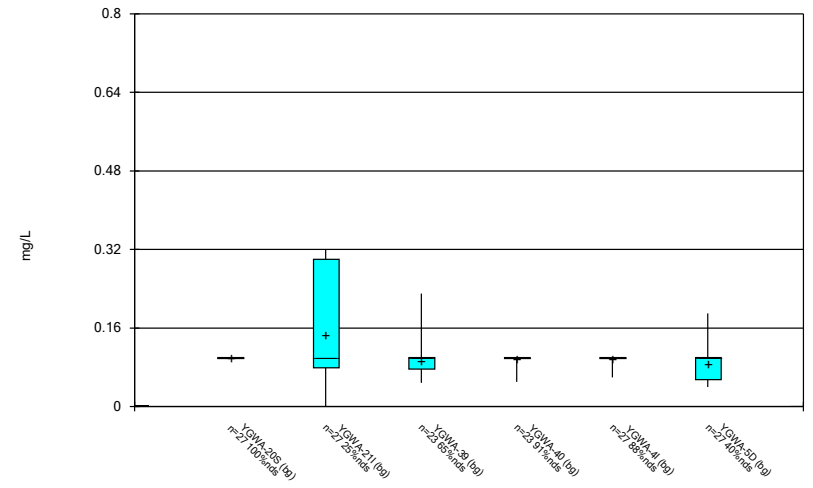
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



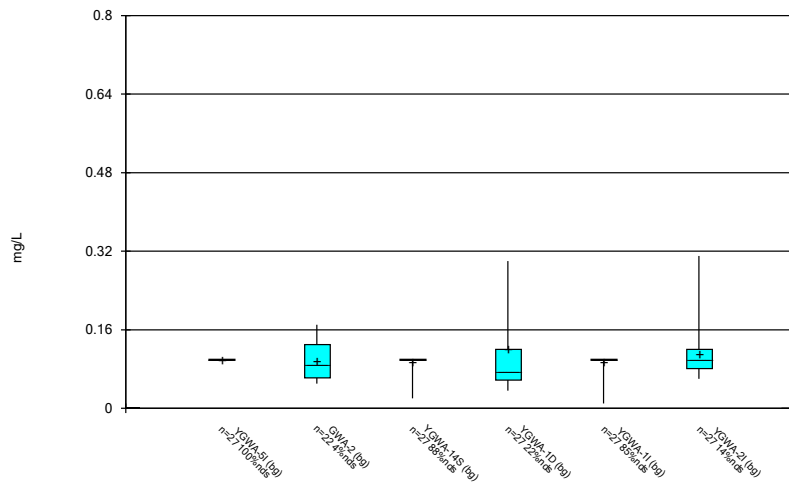
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



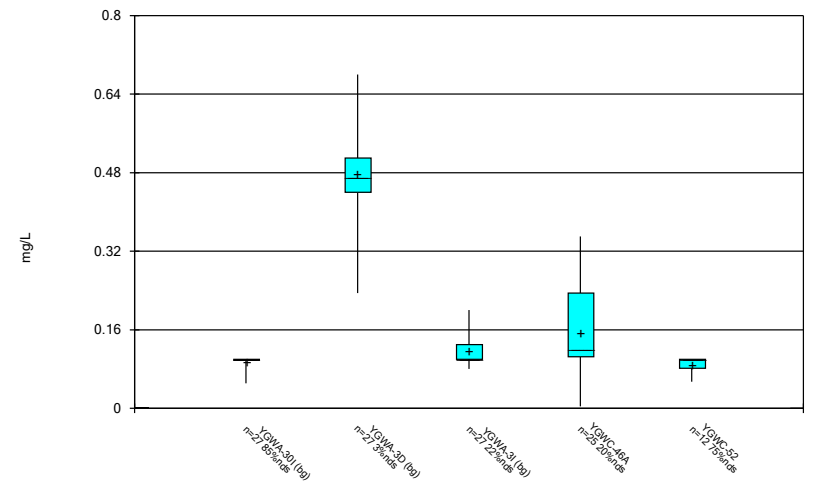
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



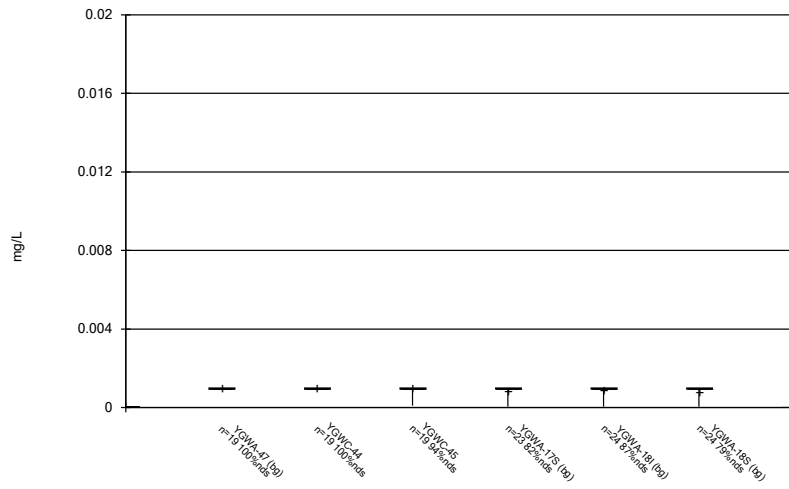
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



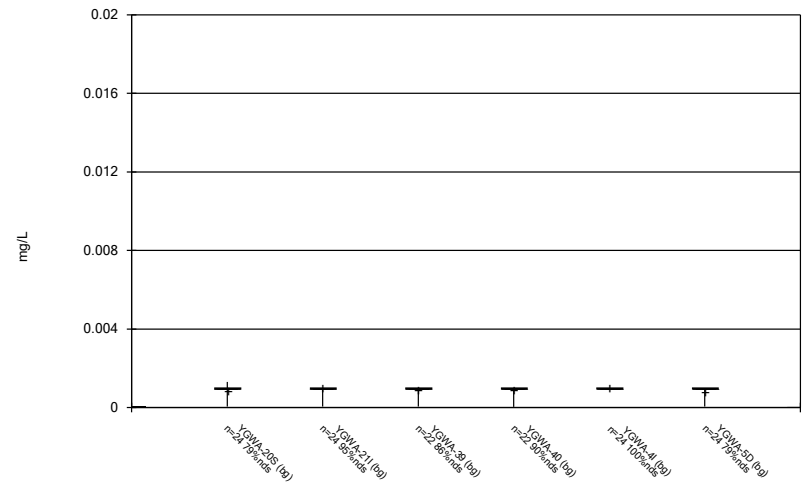
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



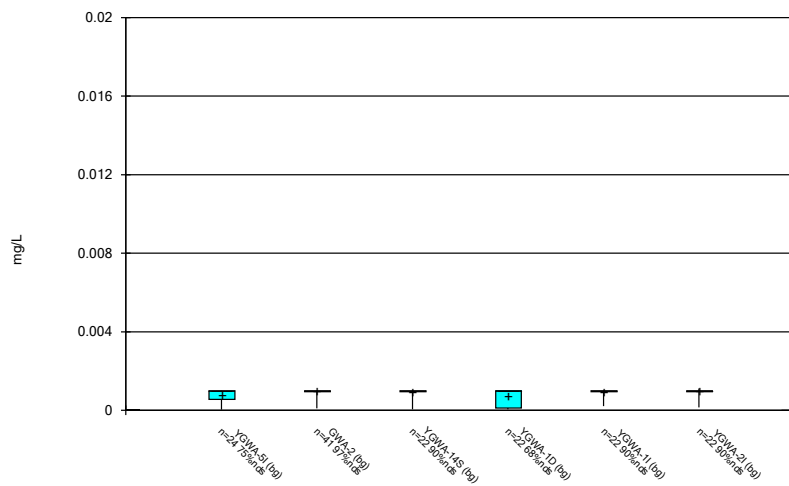
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Box & Whiskers Plot



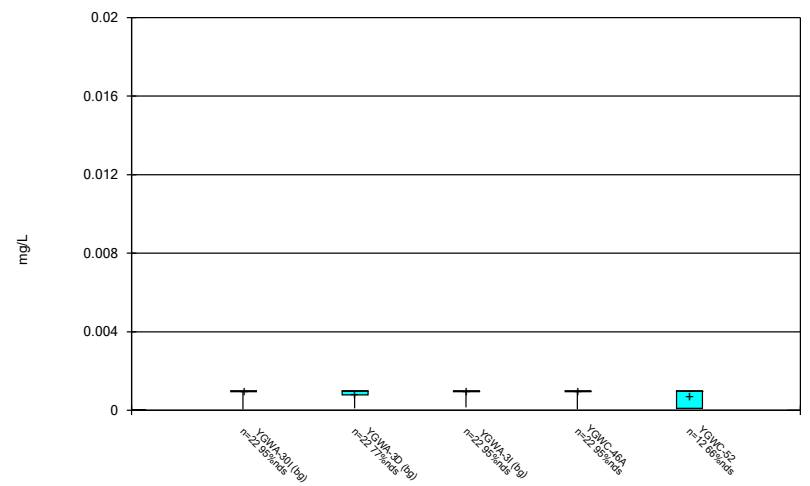
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Box & Whiskers Plot



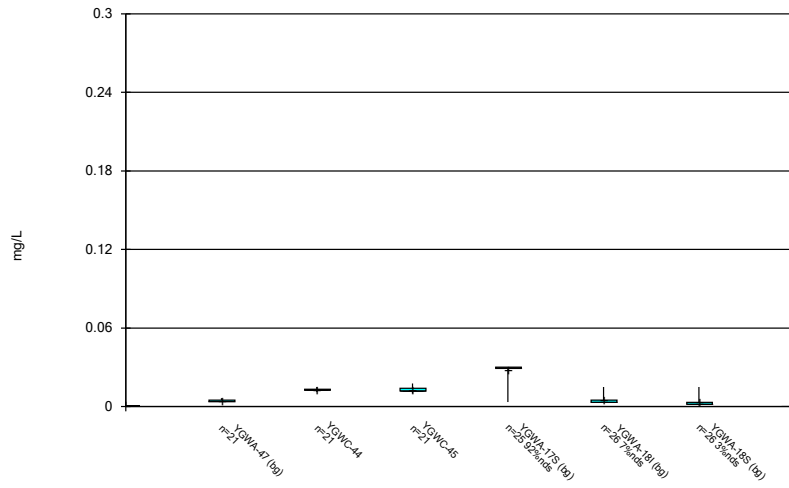
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



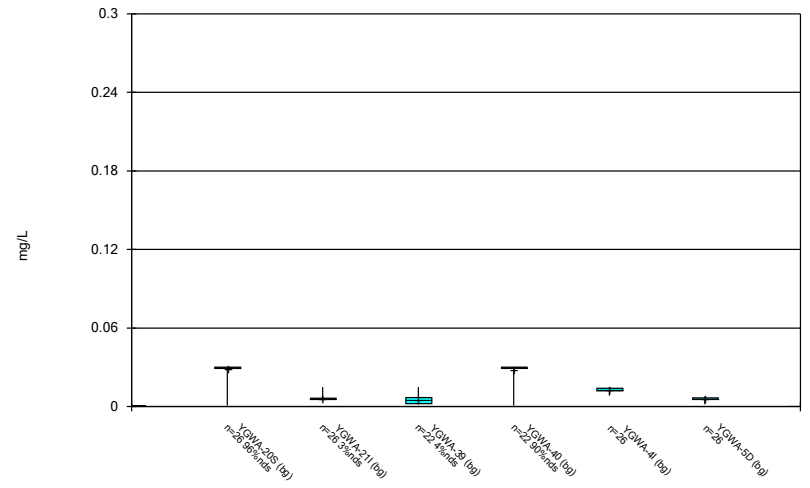
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



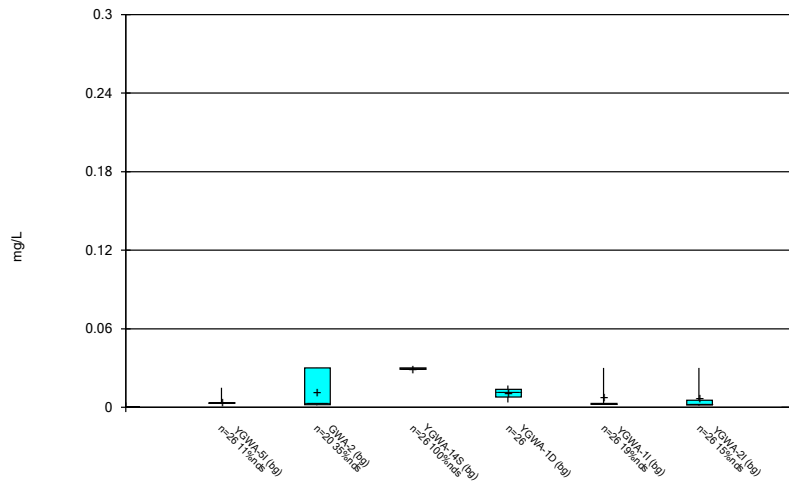
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



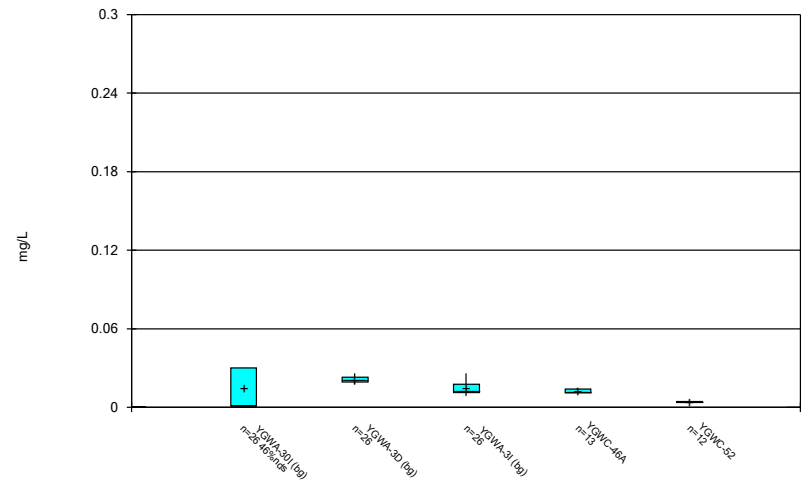
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Box & Whiskers Plot



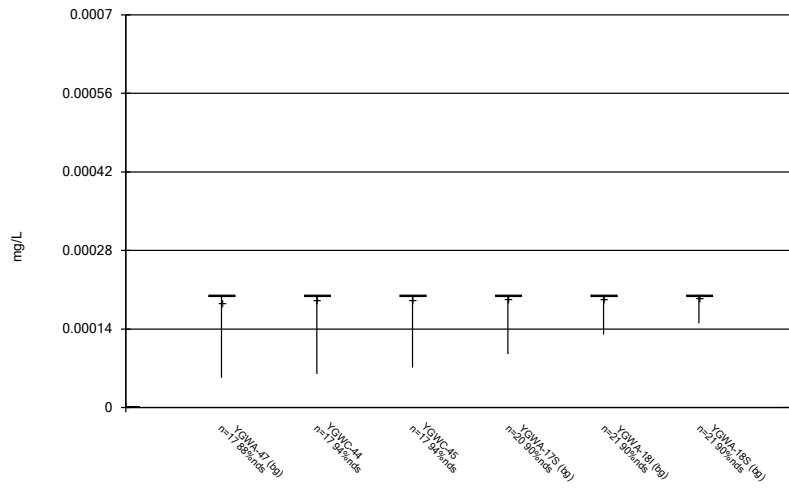
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Box & Whiskers Plot



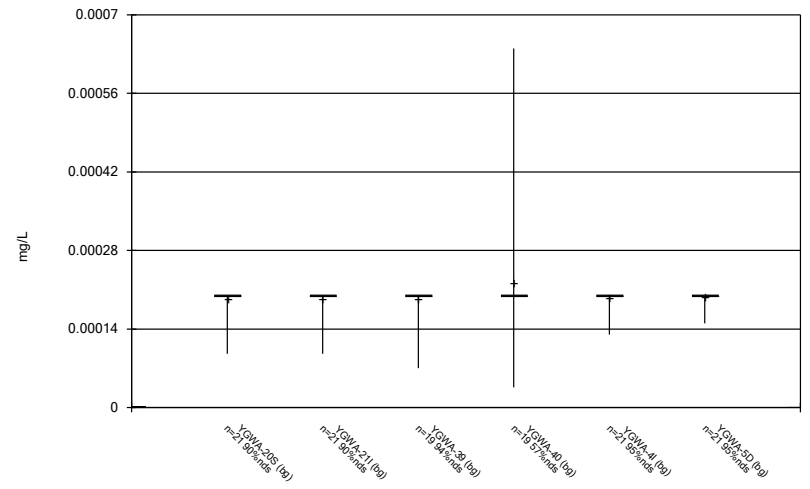
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



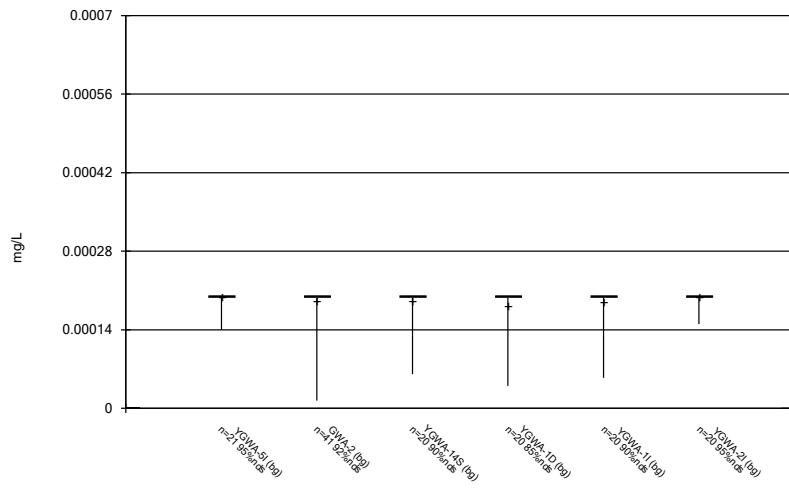
Constituent: Mercury Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



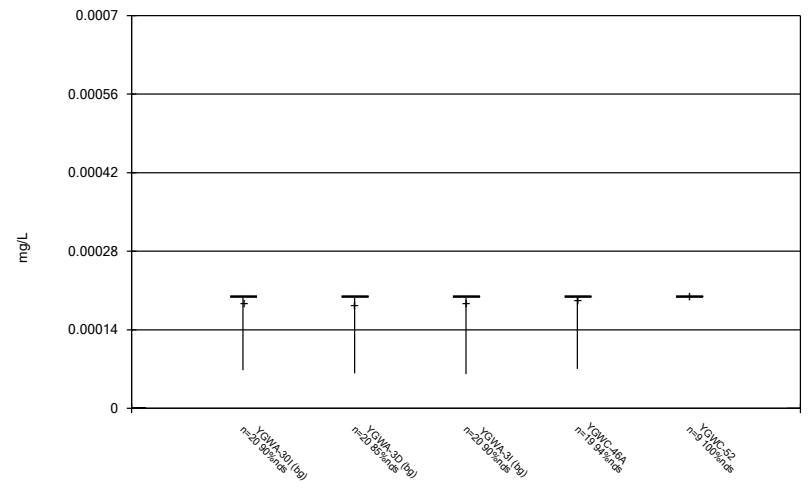
Constituent: Mercury Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



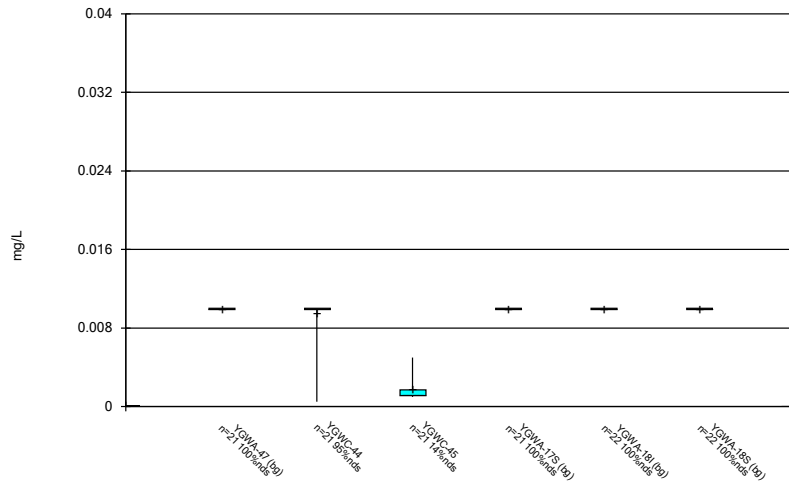
Constituent: Mercury Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



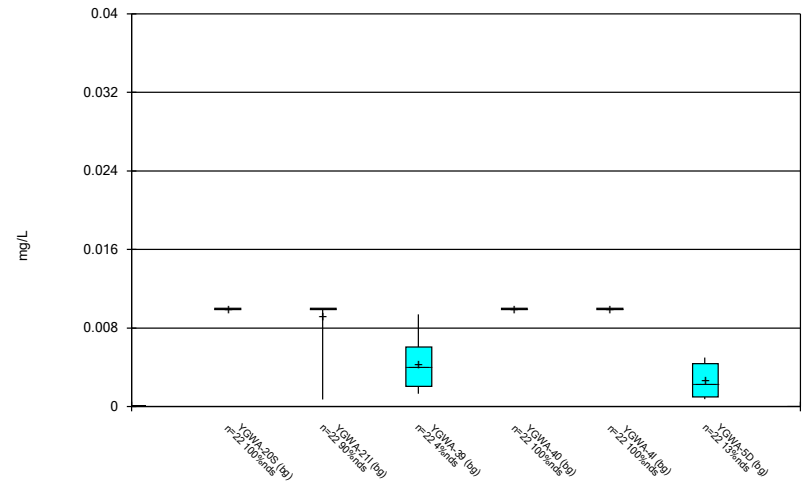
Constituent: Mercury Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



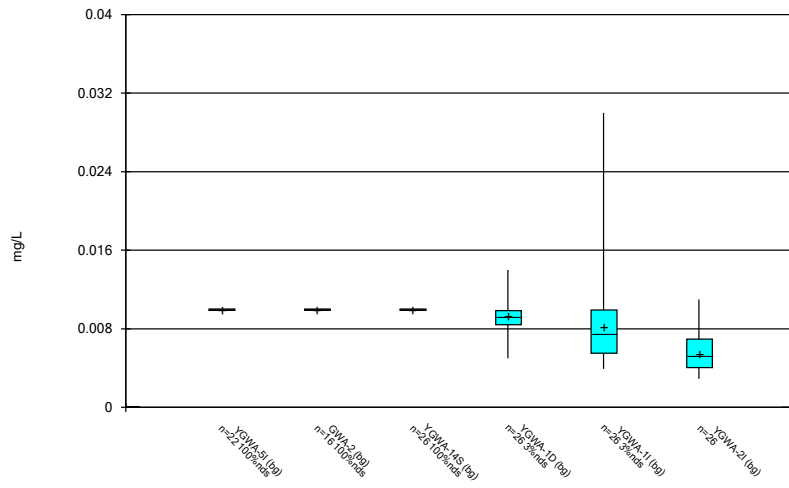
Constituent: Molybdenum Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



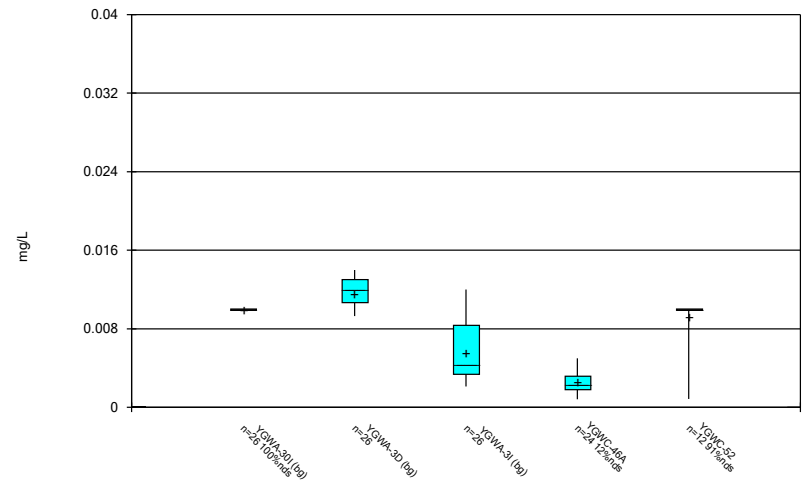
Constituent: Molybdenum Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



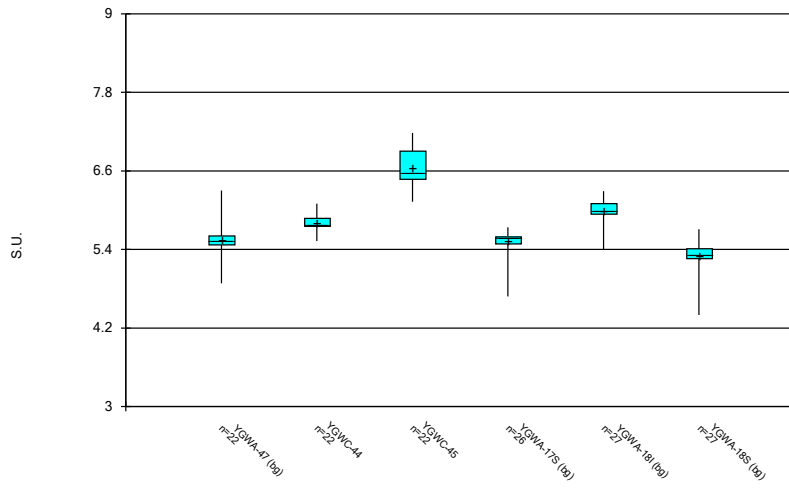
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



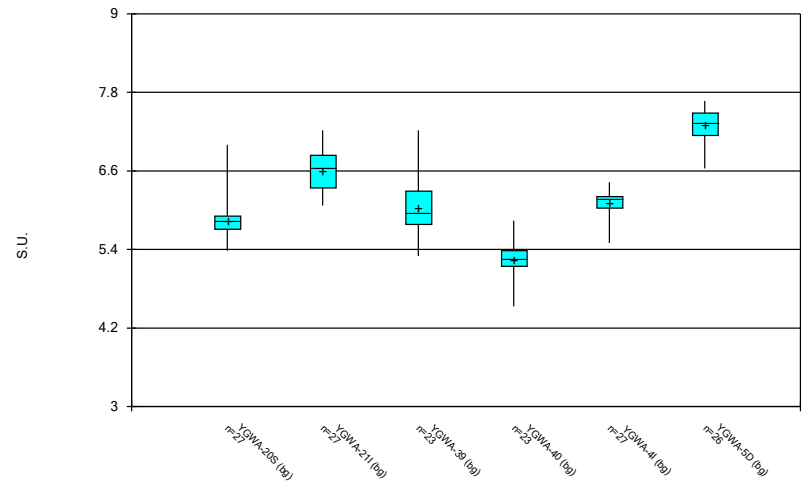
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



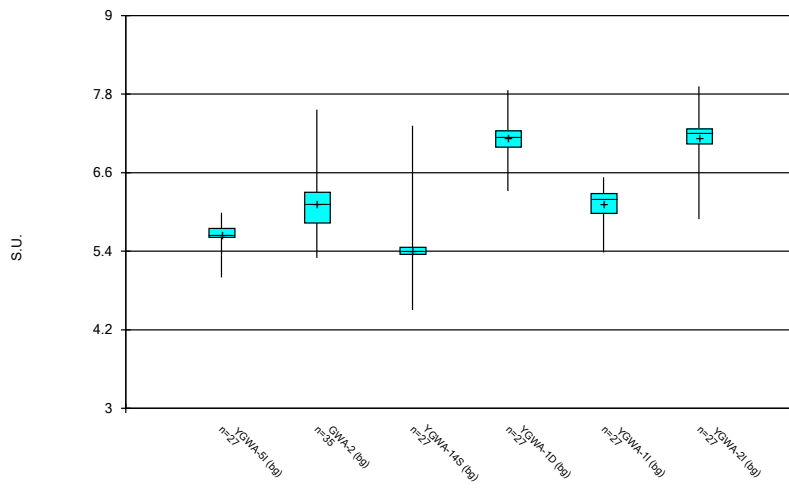
Constituent: pH, Field Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



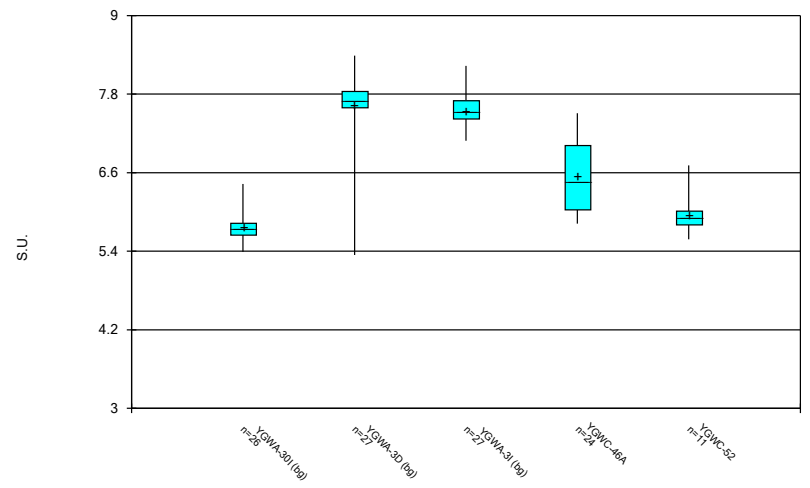
Constituent: pH, Field Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



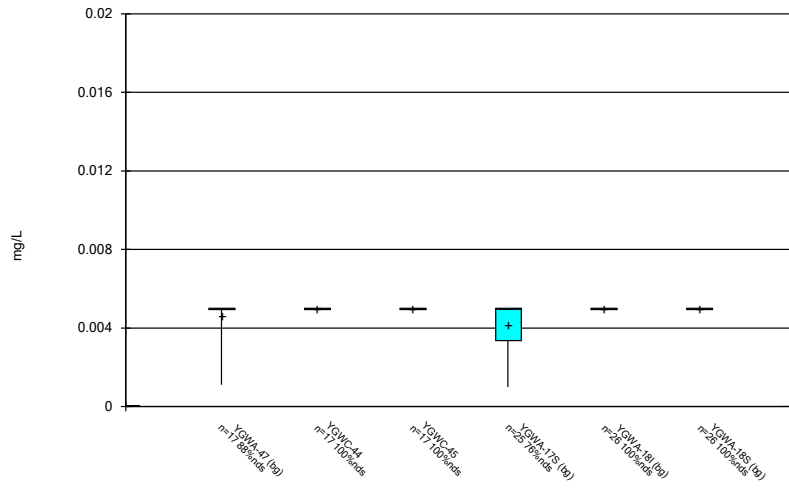
Constituent: pH, Field Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



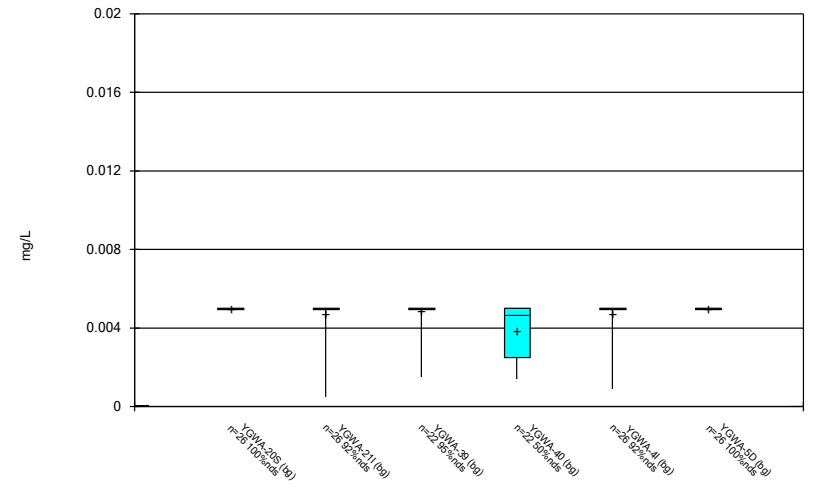
Constituent: pH, Field Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



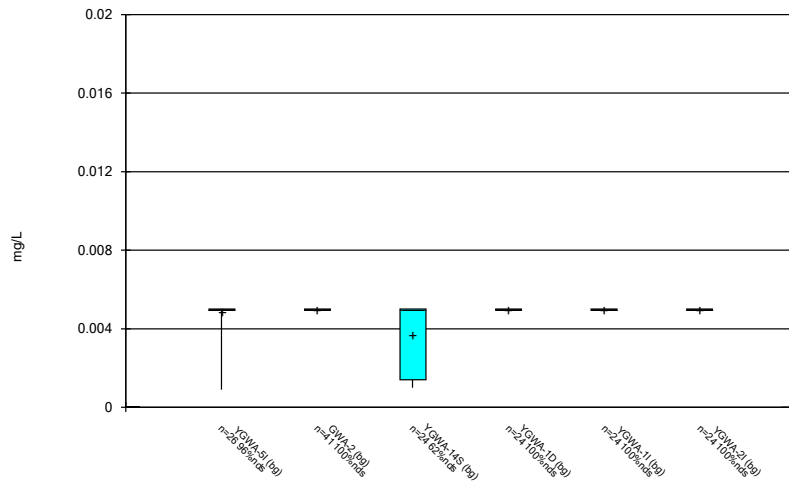
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



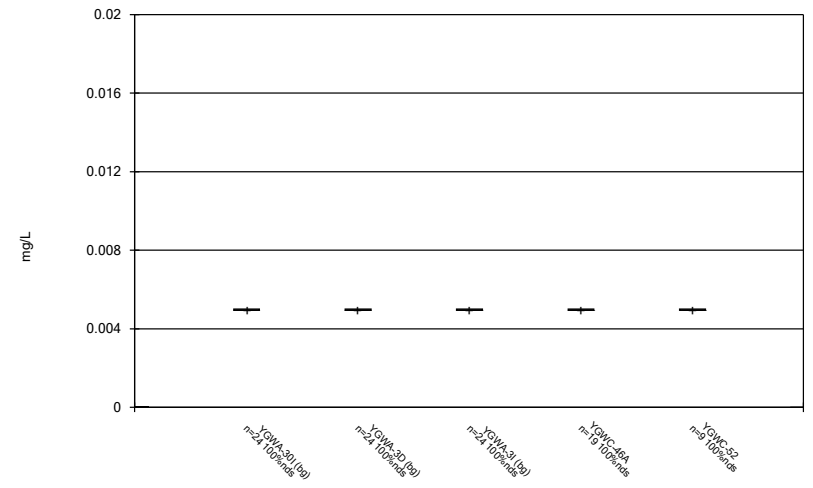
Constituent: Selenium Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



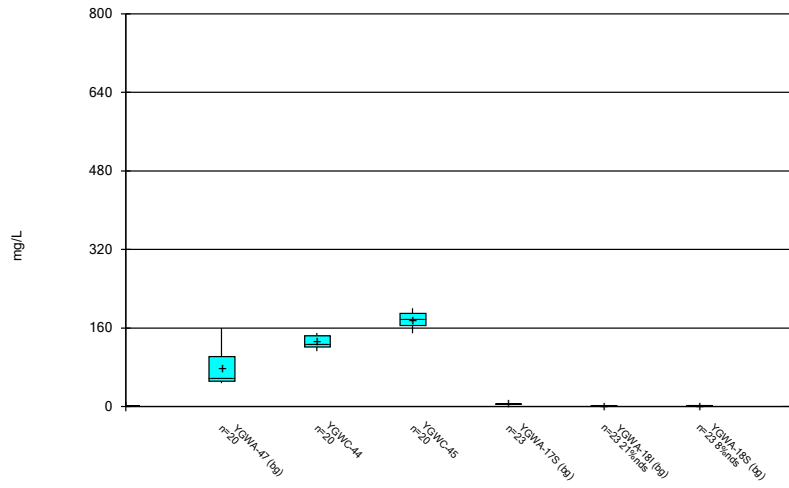
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



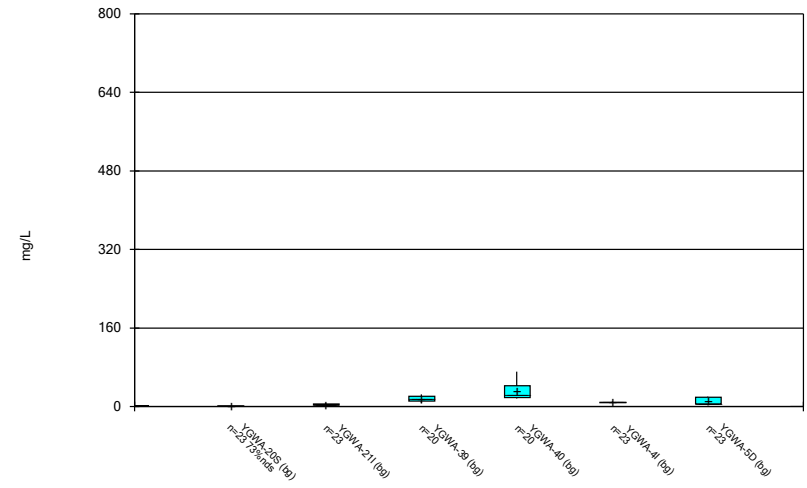
Constituent: Selenium Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



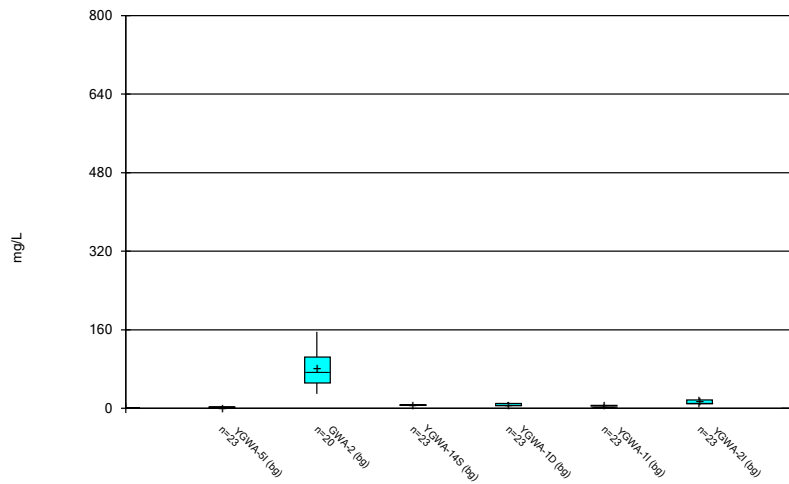
Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



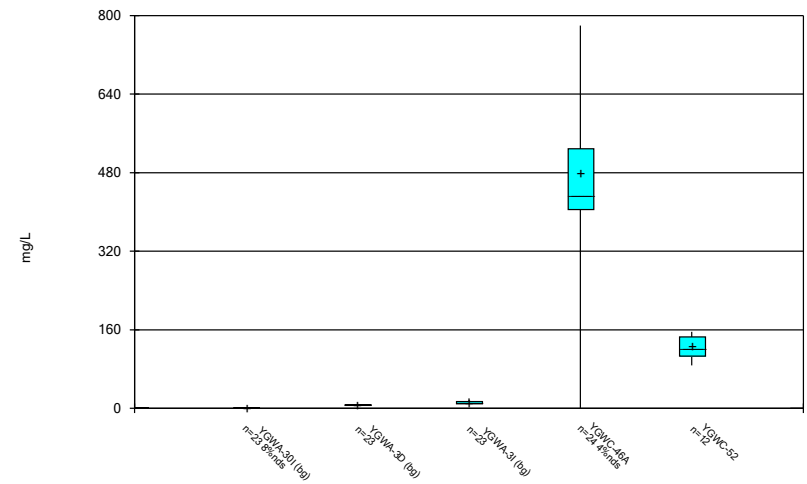
Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



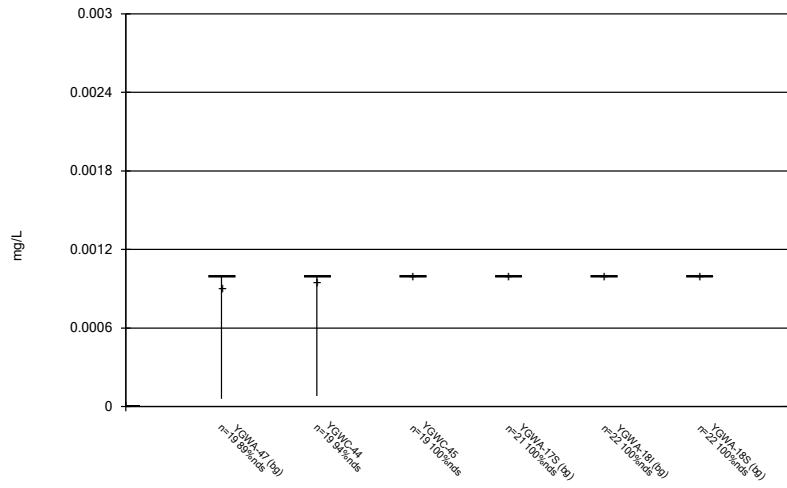
Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



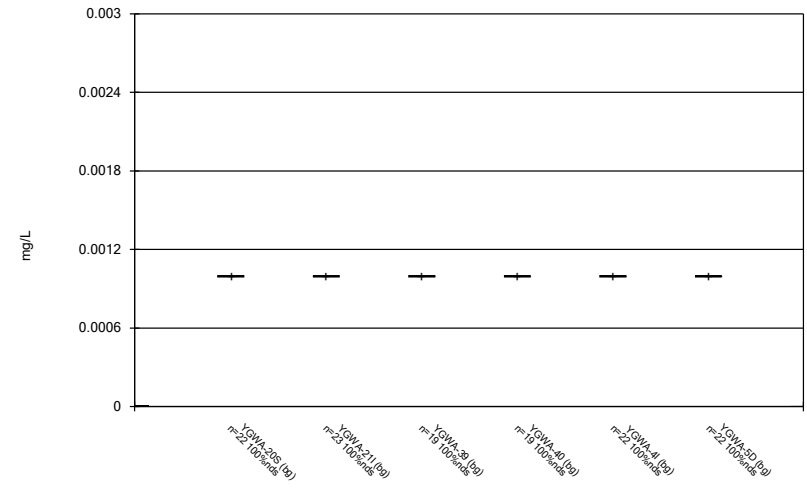
Constituent: Sulfate as SO4 Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



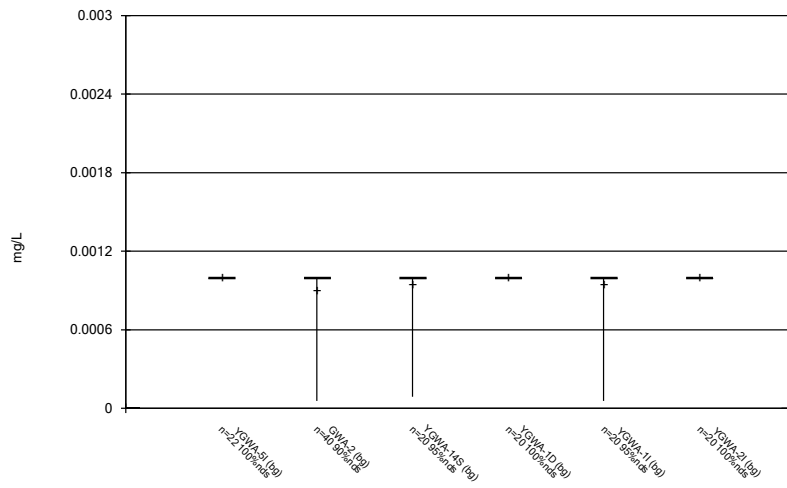
Constituent: Thallium Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



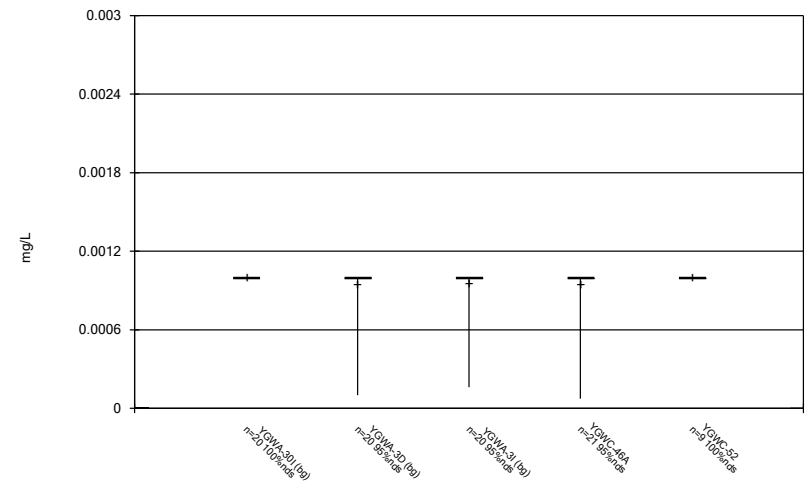
Constituent: Thallium Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



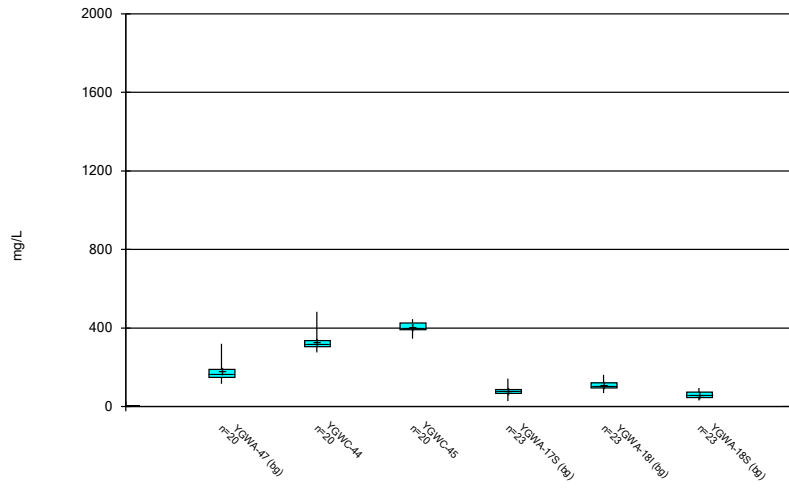
Constituent: Thallium Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



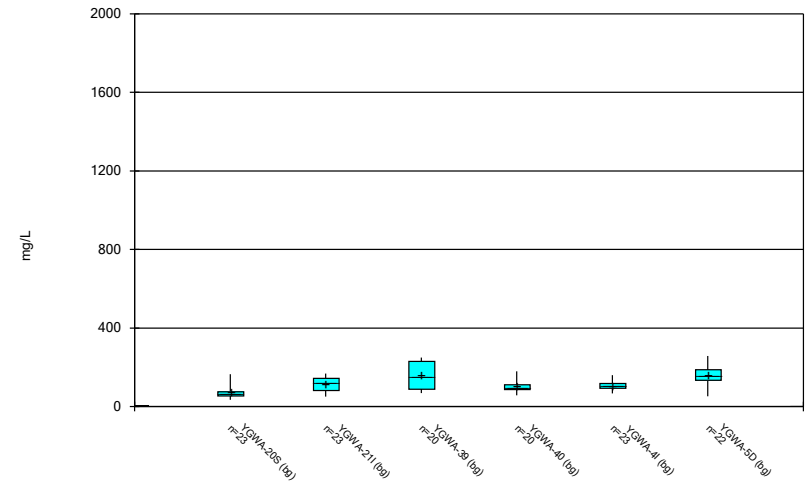
Constituent: Thallium Analysis Run 11/6/2024 6:14 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



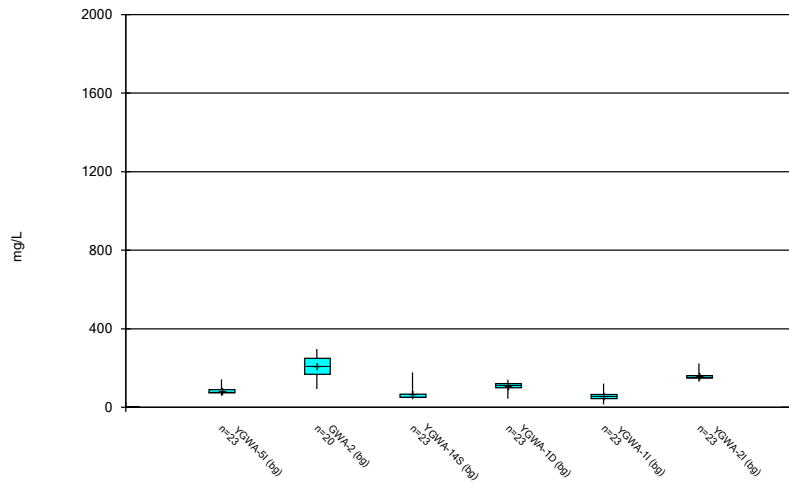
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



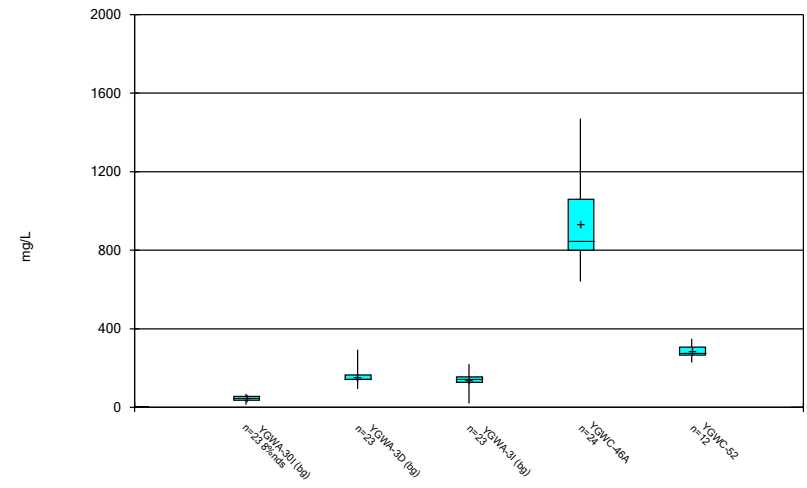
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/6/2024 6:14 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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

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 |

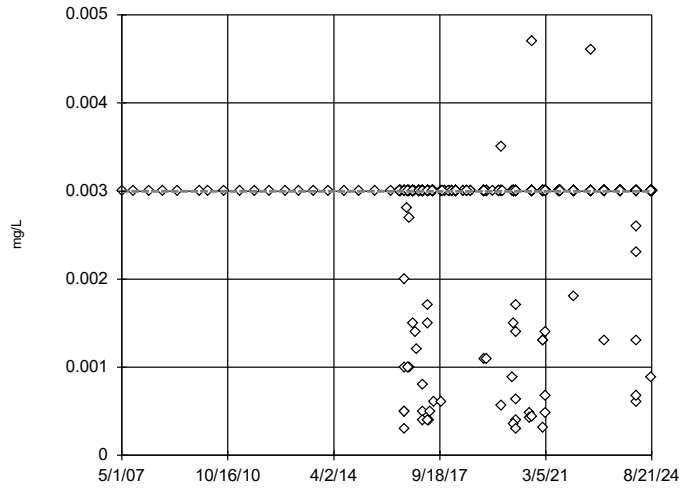
Tukey's Outlier Test - Upgradient Wells - All Results

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 |

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

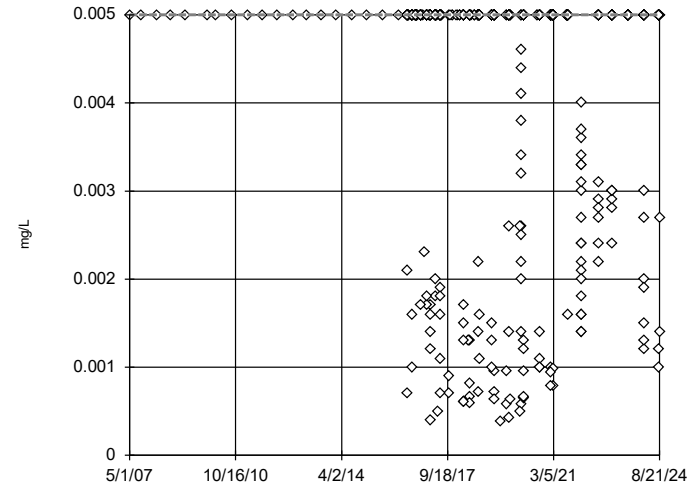


n = 447
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

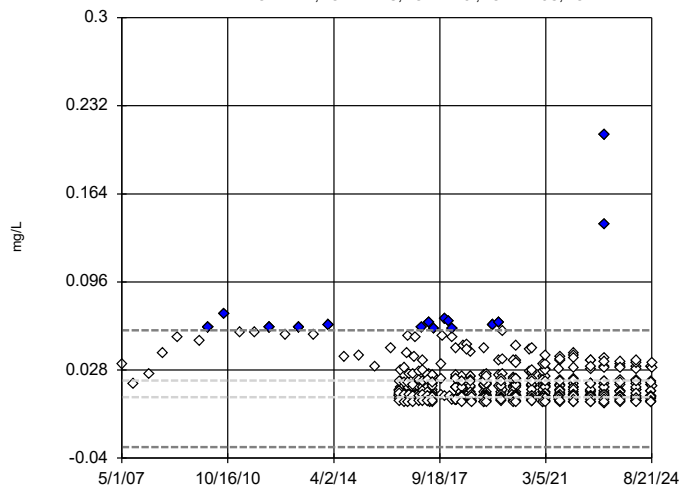


n = 495
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

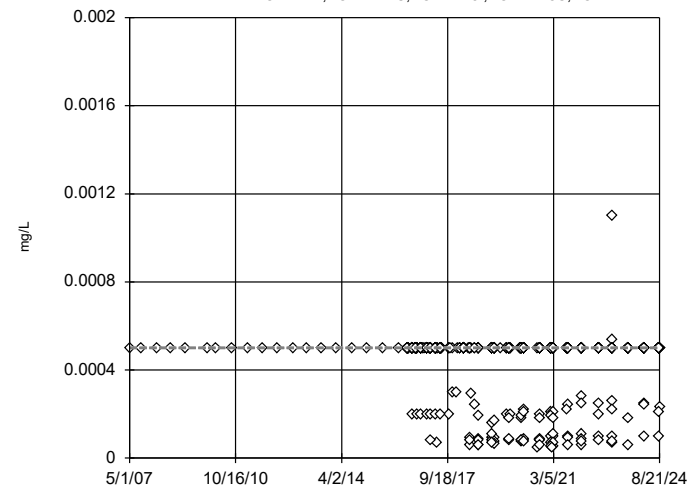


n = 495
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.0587,
 low cutoff = -0.0316,
 based on IQR multiplier of 3.

Constituent: Barium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

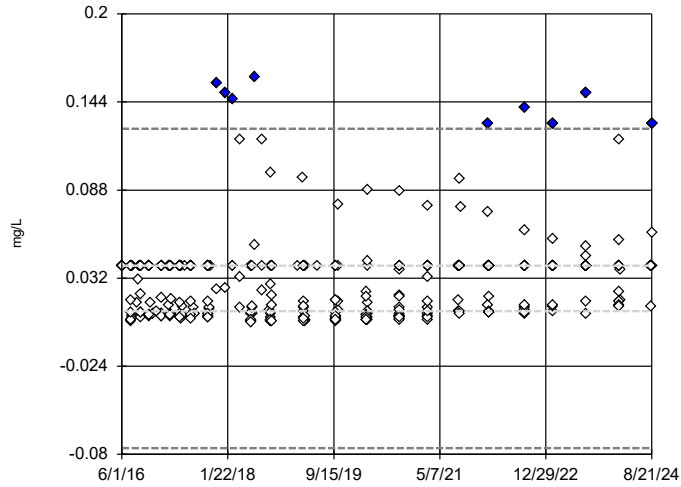


n = 479
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

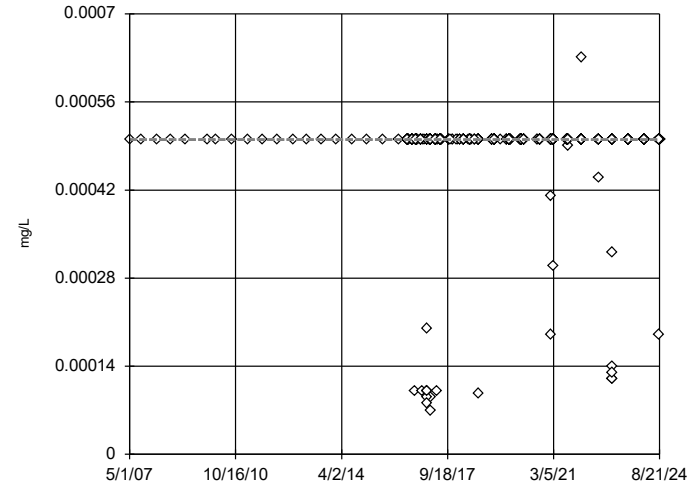


n = 425
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.127, low cutoff = -0.076, based on IQR multiplier of 3.

Constituent: Boron, total Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

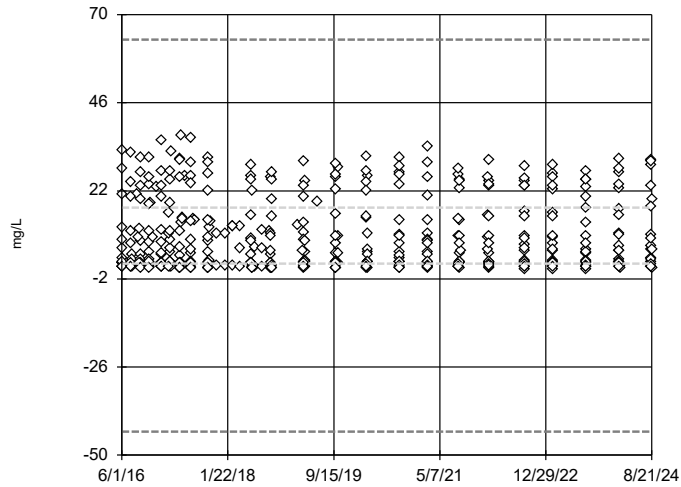


n = 479
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

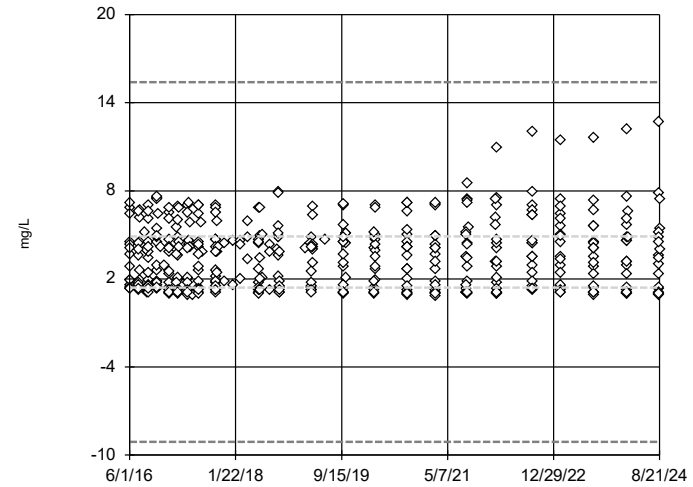


n = 425
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 63.23, low cutoff = -43.59, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

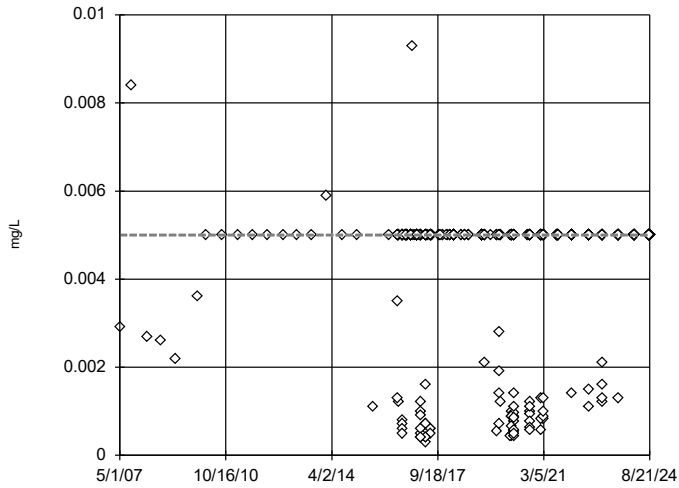


n = 425
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 15.4, low cutoff = -9.1, based on IQR multiplier of 3.

Constituent: Chloride, Total Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

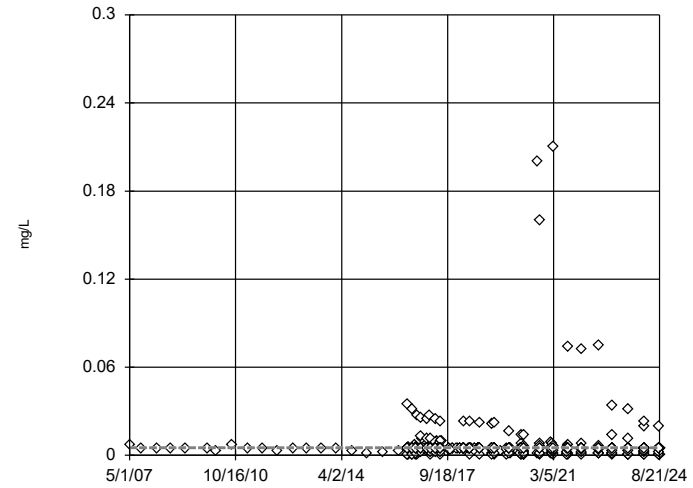


n = 447
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

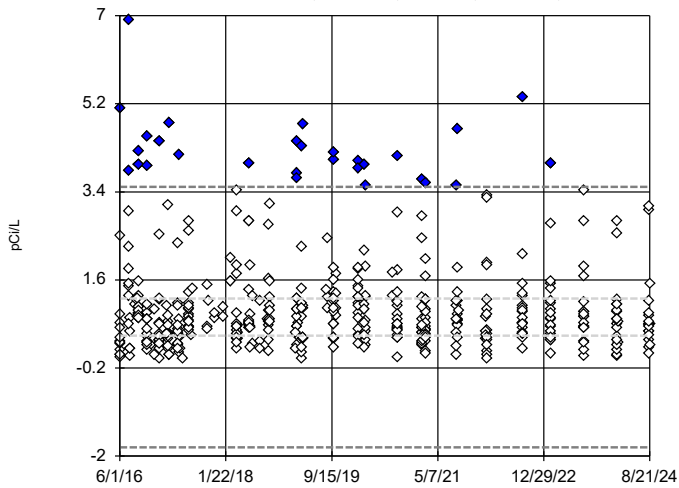


n = 495
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

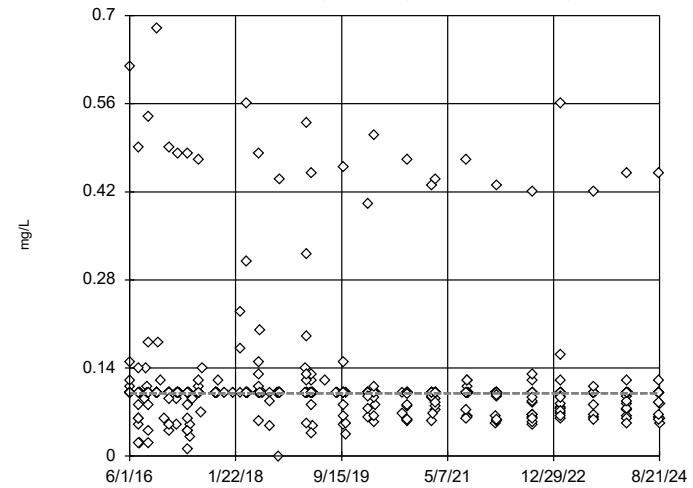


n = 474
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 3.502, low cutoff = -1.822, based on IQR multiplier of 3.

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

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

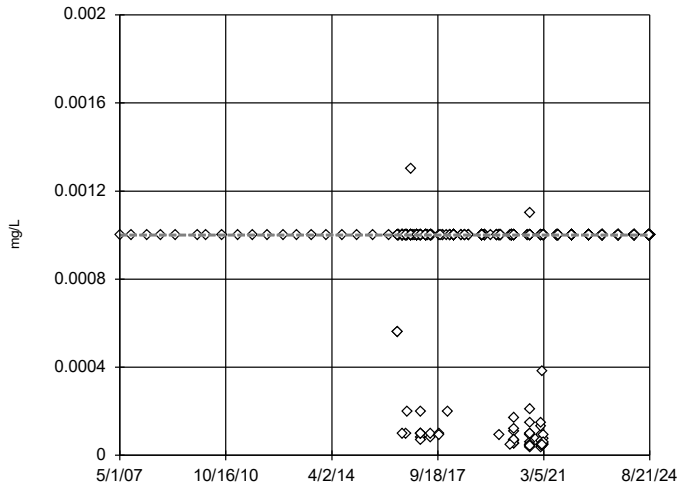


n = 494
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Fluoride, total Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

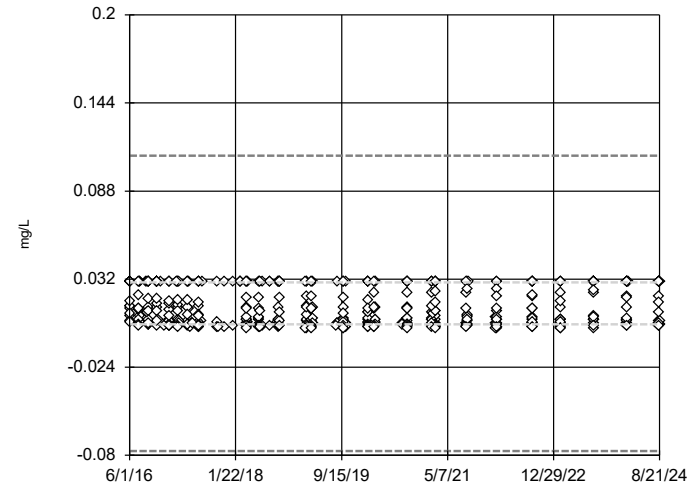


n = 449
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

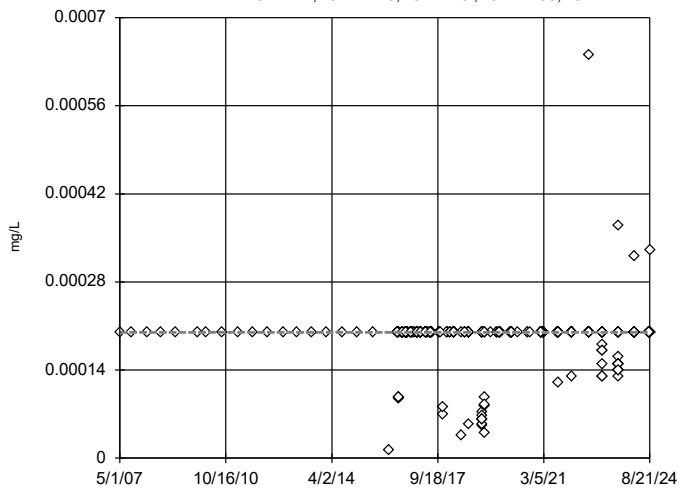


n = 474
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.1104,
 low cutoff = -0.0772,
 based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

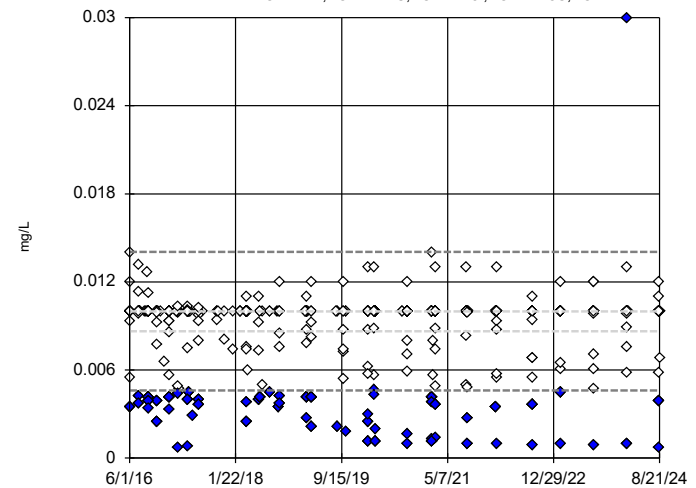


n = 403
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

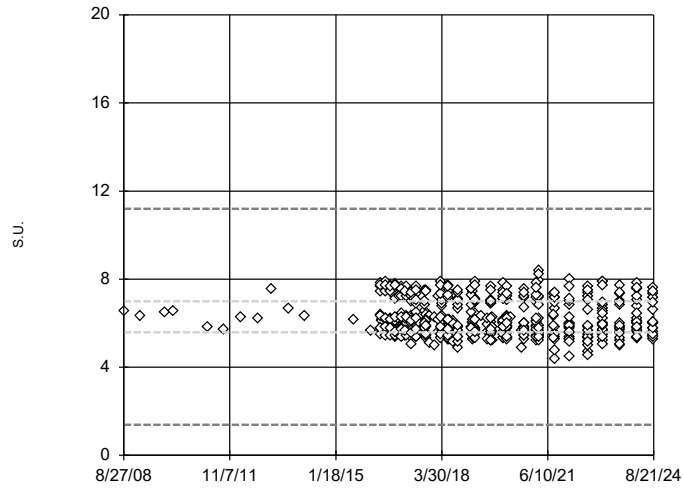


n = 438
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.01405,
 low cutoff = 0.0046,
 based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

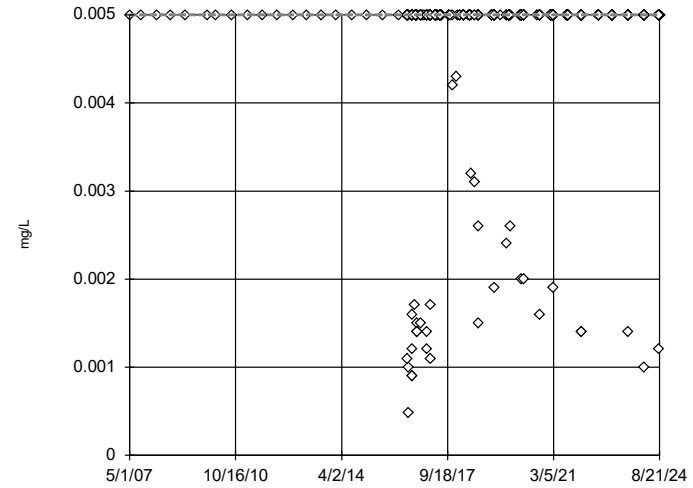


n = 505
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 11.19, low cutoff = 1.39, based on IQR multiplier of 3.

Constituent: pH, Field Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

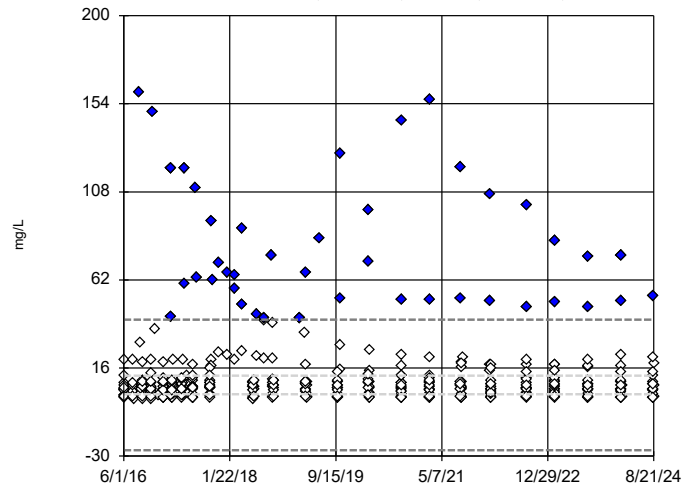


n = 477
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

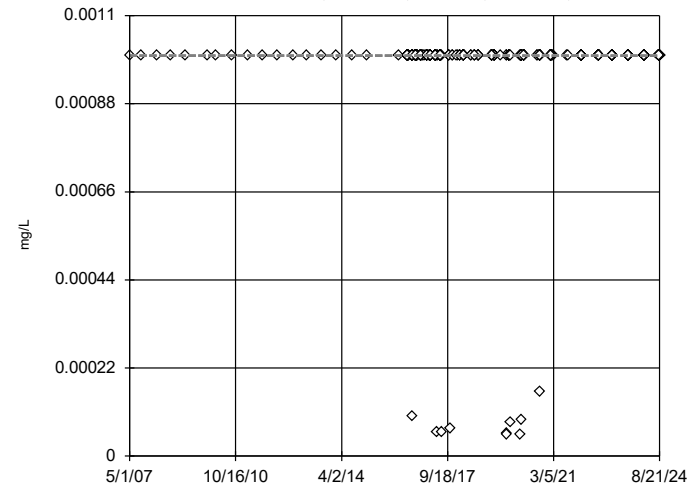


n = 425
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 41.25, low cutoff = -27, based on IQR multiplier of 3.

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

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...

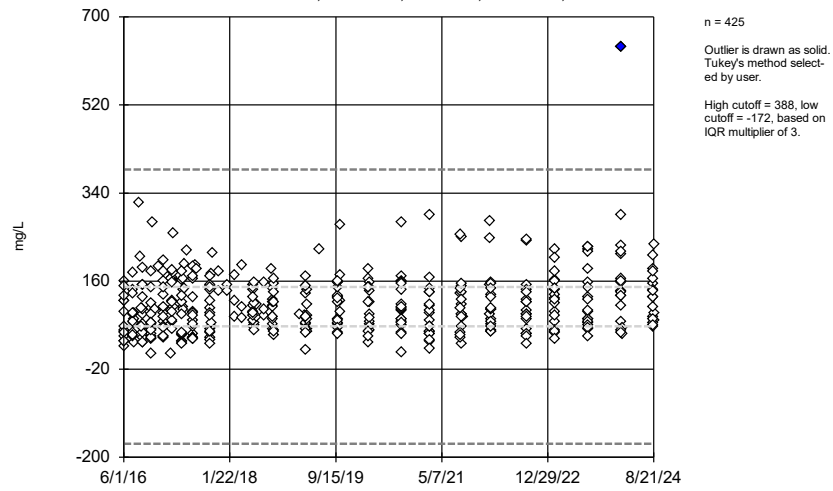


n = 413
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 11/5/2024 8:13 PM View: Upgradient Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tukey's Outlier Screening, Pooled Background

YGWA-47,YGWA-17S,YGWA-18I,YGWA-18S,YG...



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.

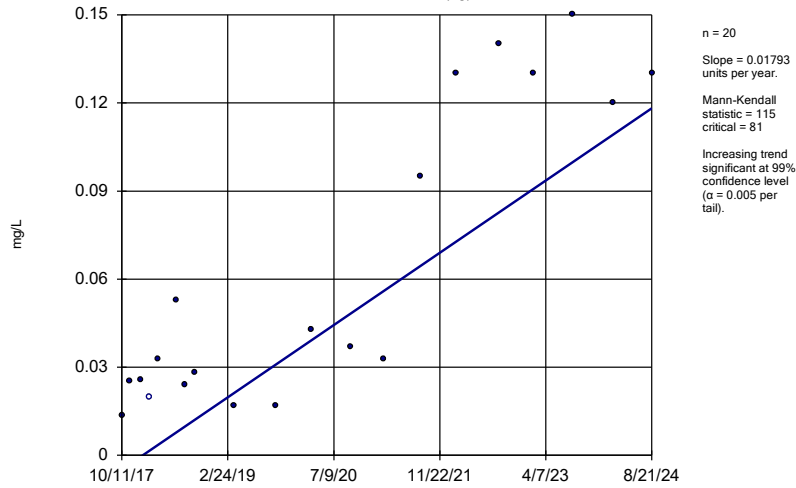
Appendix III Trend Tests - Upgradient Wells - Significant Results

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 |

Sen's Slope Estimator

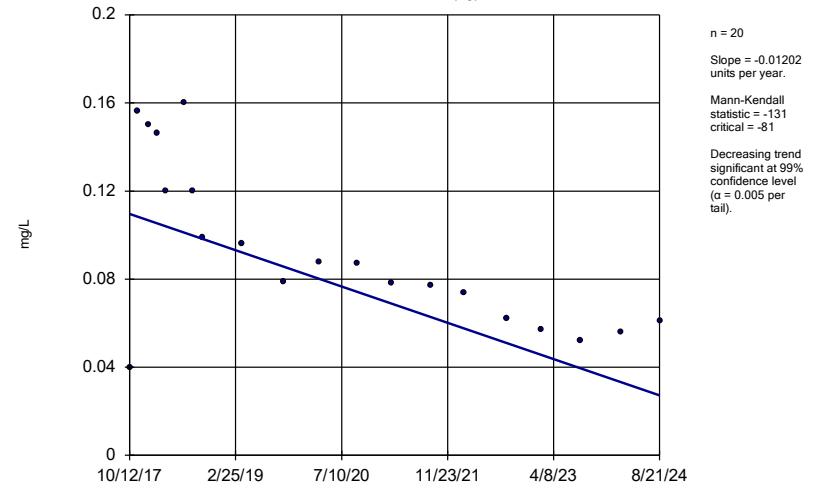
YGWA-39 (bg)



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

Sen's Slope Estimator

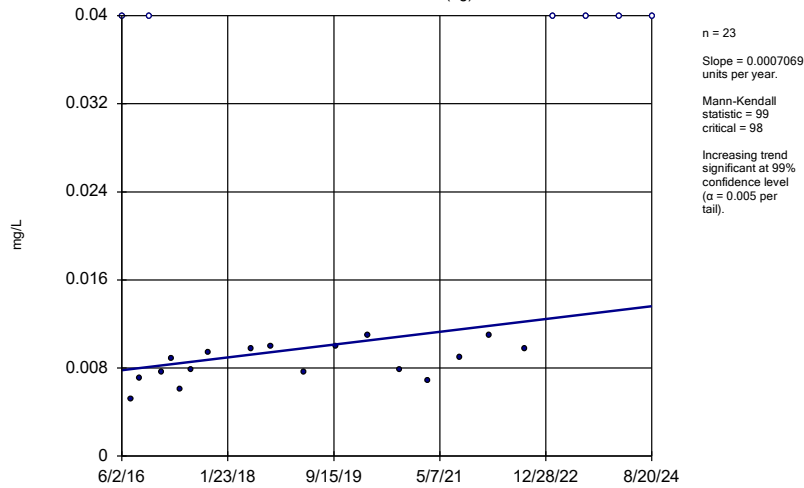
YGWA-40 (bg)



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

Sen's Slope Estimator

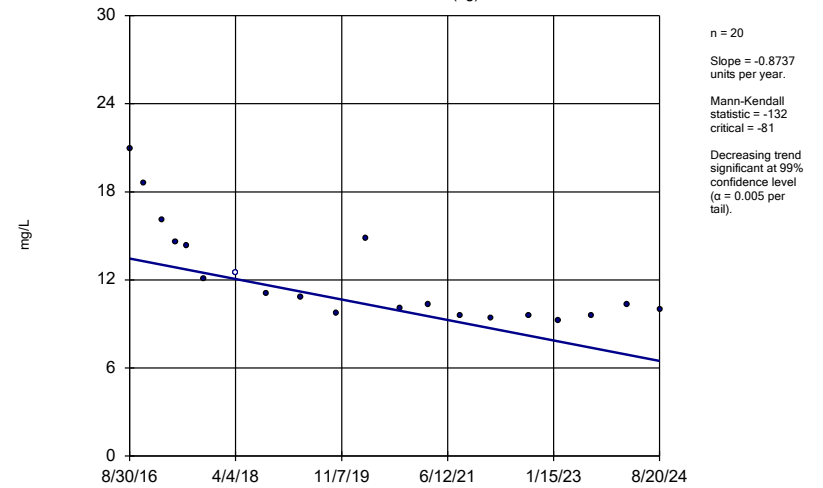
YGWA-5D (bg)



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

Sen's Slope Estimator

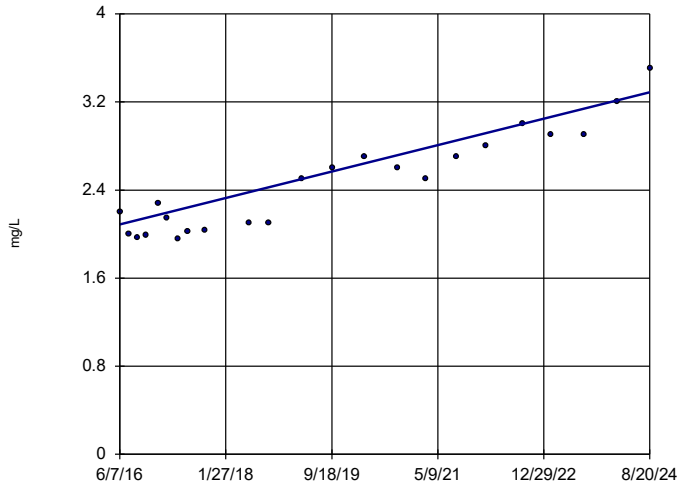
YGWA-47 (bg)



Constituent: Calcium, total Analysis Run 11/5/2024 7:45 PM View: Appendix III - Upgradient Wells Screenin
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator

YGWA-17S (bg)

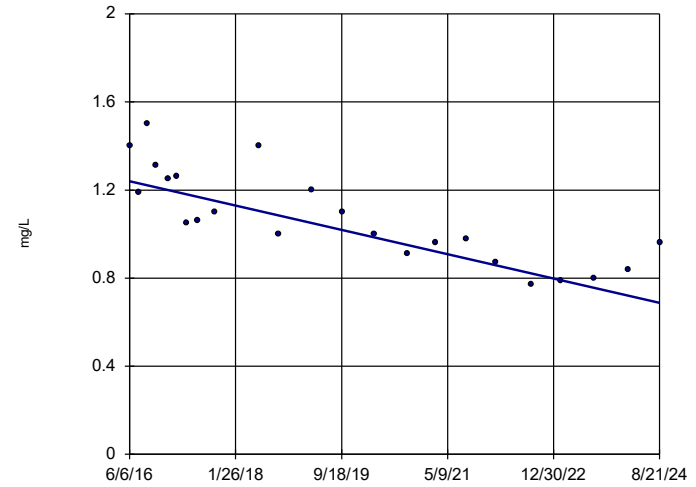


n = 23
 Slope = 0.1465 units per year.
 Mann-Kendall statistic = 186
 critical = 98
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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

Sen's Slope Estimator

YGWA-18S (bg)

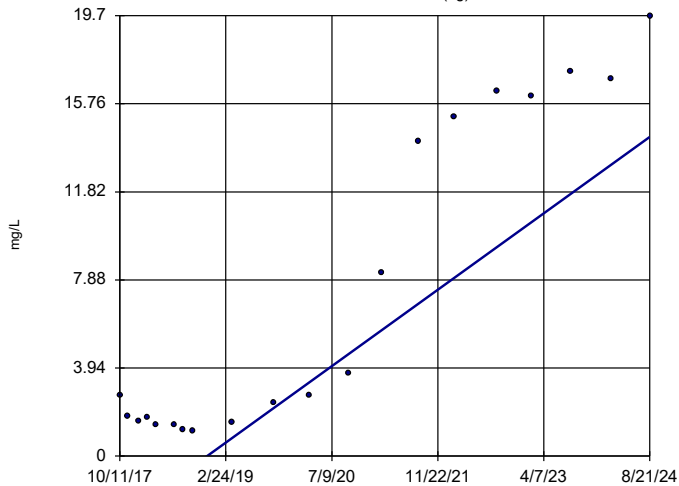


n = 23
 Slope = -0.06725 units per year.
 Mann-Kendall statistic = -171
 critical = -98
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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

Sen's Slope Estimator

YGWA-39 (bg)

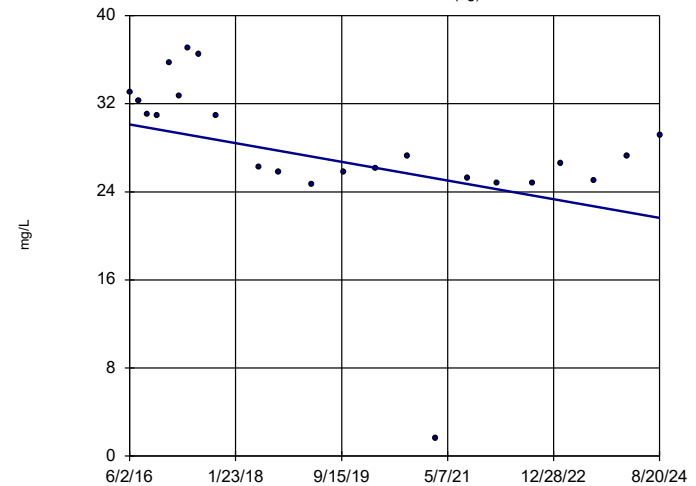


n = 20
 Slope = 2.49 units per year.
 Mann-Kendall statistic = 121
 critical = 81
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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

Sen's Slope Estimator

YGWA-5D (bg)

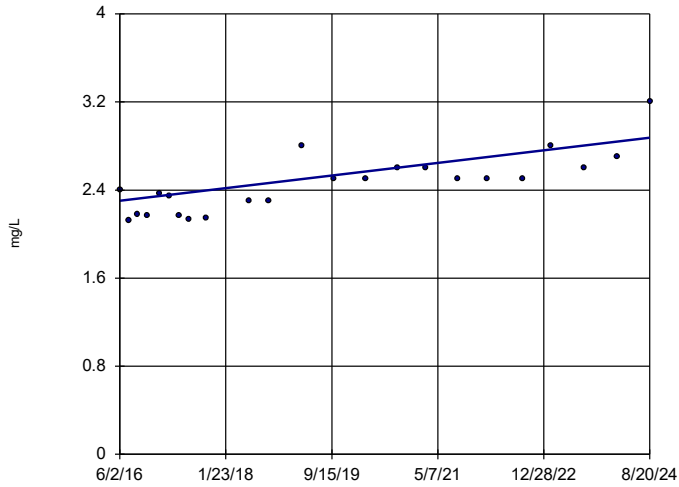


n = 23
 Slope = -1.034 units per year.
 Mann-Kendall statistic = -107
 critical = -98
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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

Sen's Slope Estimator

YGWA-5I (bg)

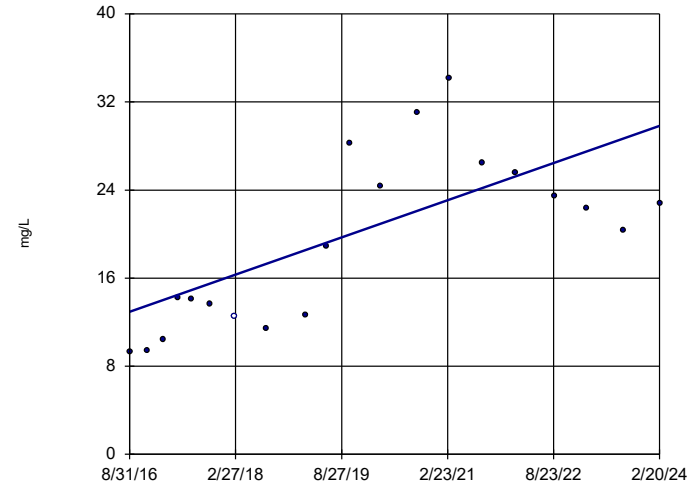


n = 23
 Slope = 0.06991
 units per year.
 Mann-Kendall
 statistic = 145
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

GWA-2 (bg)

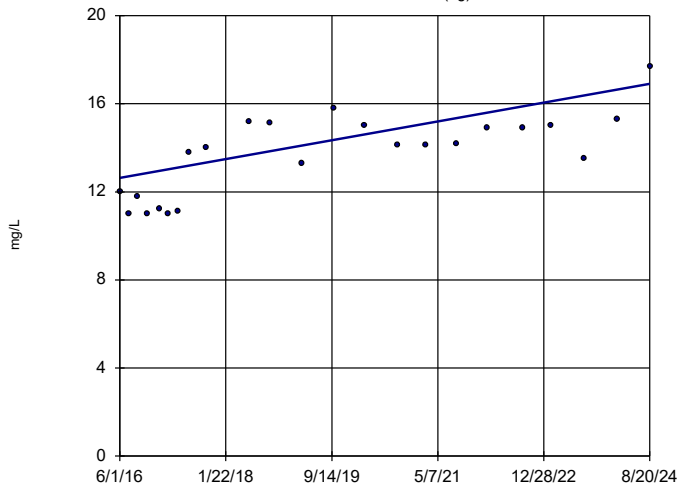


n = 20
 Slope = 2.258
 units per year.
 Mann-Kendall
 statistic = 92
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-1D (bg)

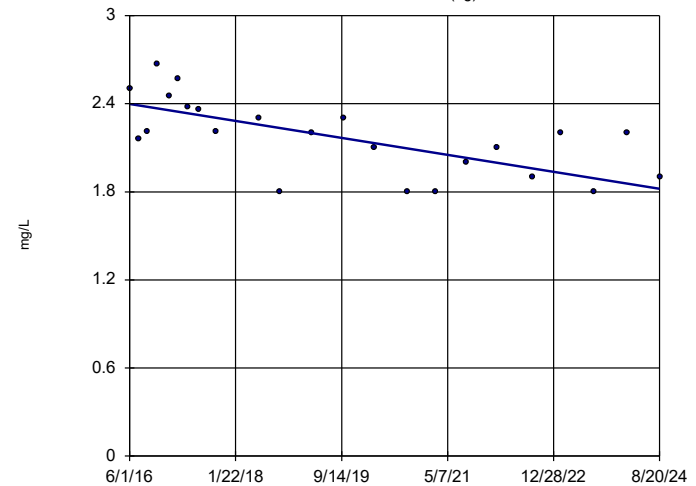


n = 23
 Slope = 0.5198
 units per year.
 Mann-Kendall
 statistic = 135
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-1I (bg)

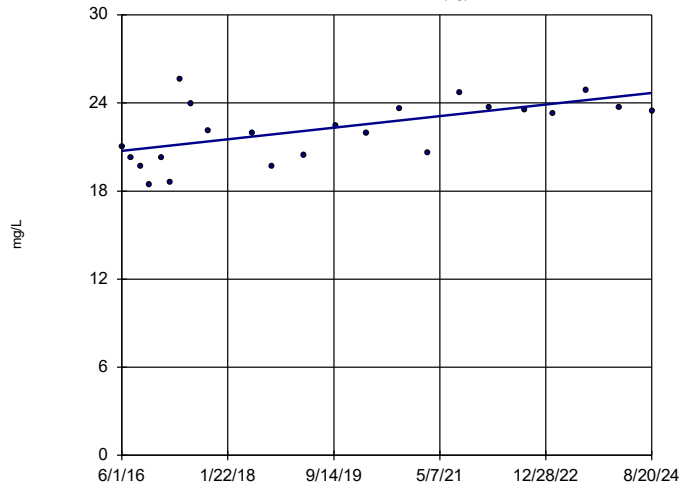


n = 23
 Slope = -0.07033
 units per year.
 Mann-Kendall
 statistic = -126
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3I (bg)

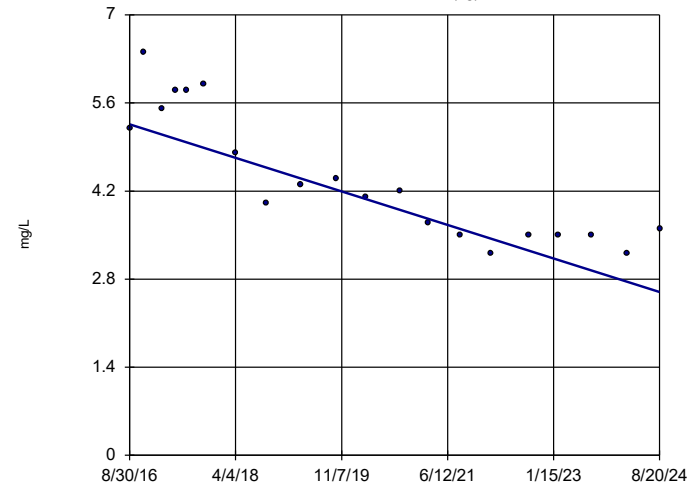


n = 23
 Slope = 0.478
 units per year.
 Mann-Kendall
 statistic = 103
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Screen
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator

YGWA-47 (bg)

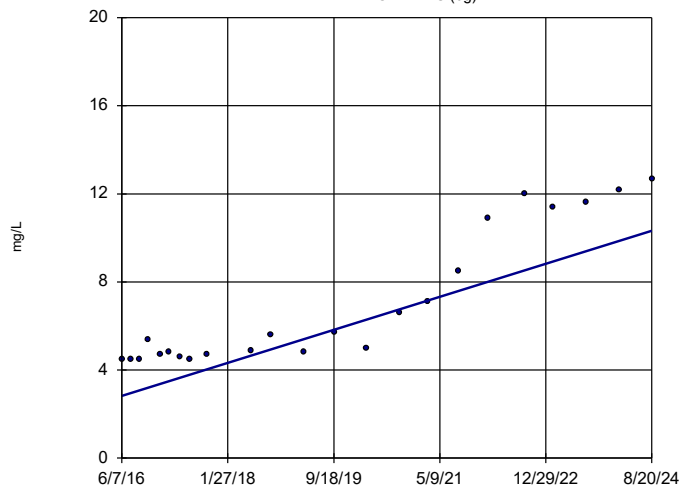


n = 20
 Slope = -0.3342
 units per year.
 Mann-Kendall
 statistic = -132
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-17S (bg)

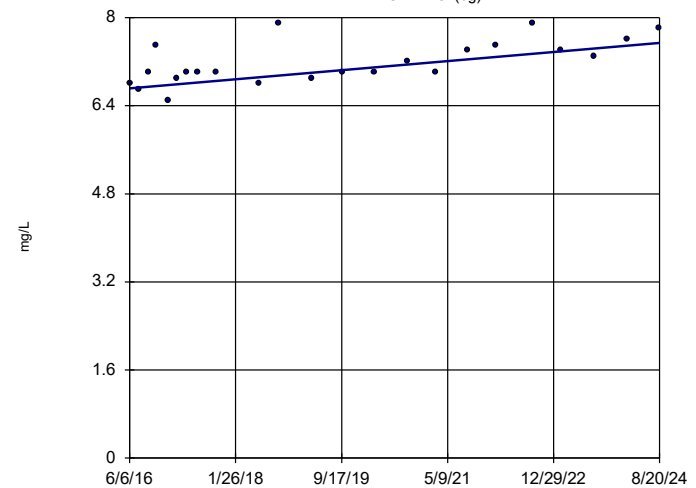


n = 23
 Slope = 0.914
 units per year.
 Mann-Kendall
 statistic = 205
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-18I (bg)

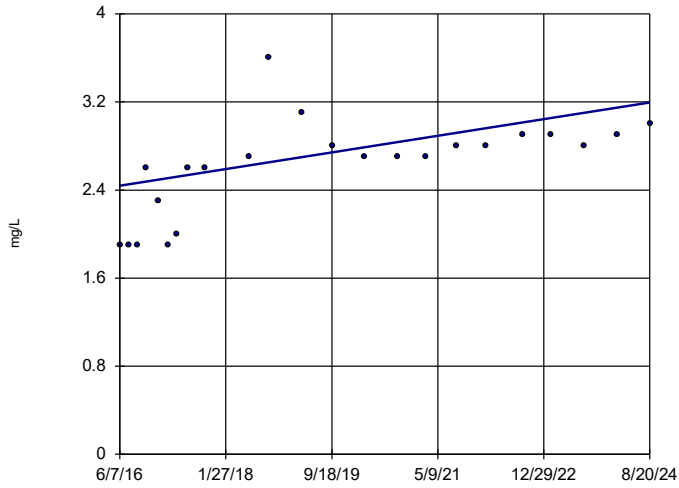


n = 23
 Slope = 0.1003
 units per year.
 Mann-Kendall
 statistic = 131
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-20S (bg)

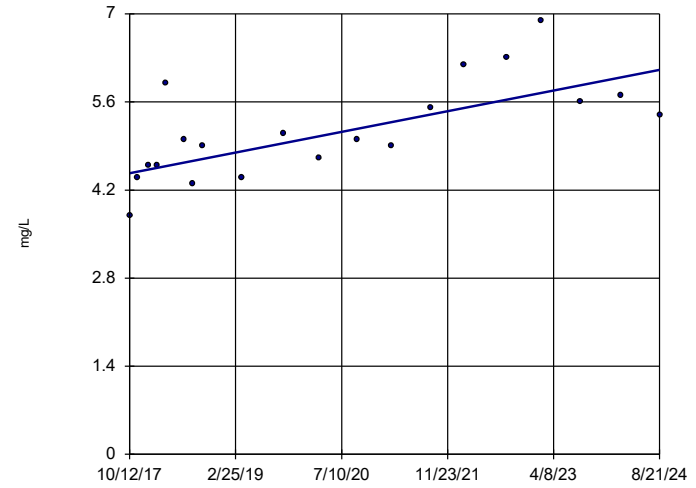


n = 23
 Slope = 0.09204
 units per year.
 Mann-Kendall
 statistic = 163
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-40 (bg)

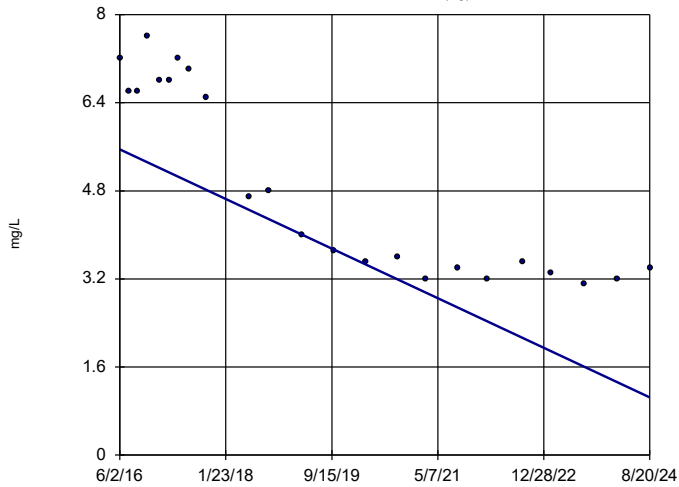


n = 20
 Slope = 0.2393
 units per year.
 Mann-Kendall
 statistic = 106
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5D (bg)

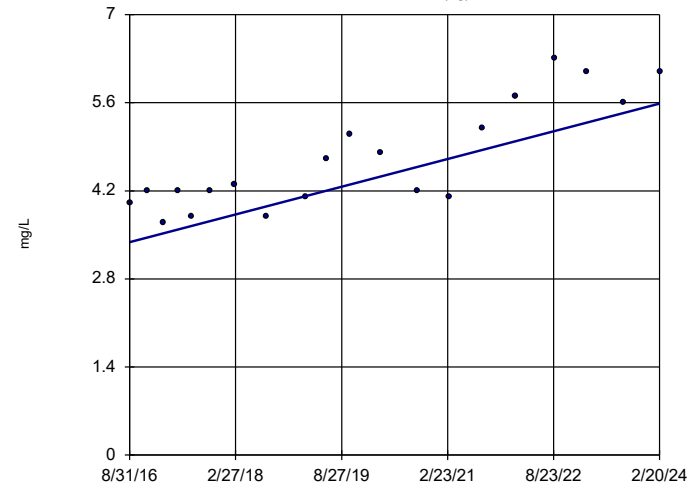


n = 23
 Slope = -0.5475
 units per year.
 Mann-Kendall
 statistic = -187
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

GWA-2 (bg)

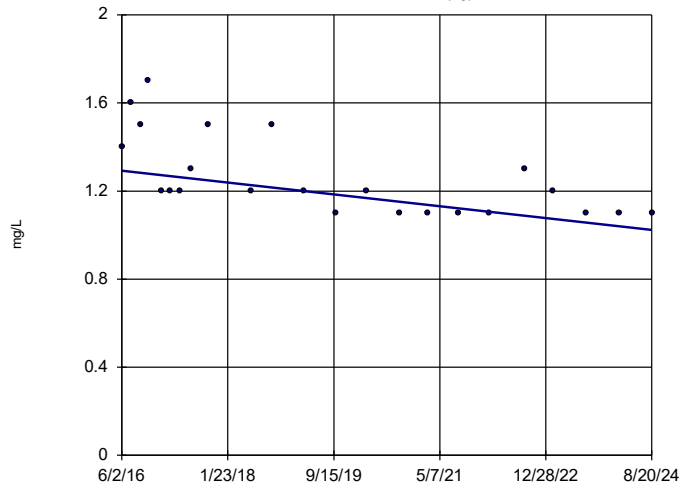


n = 20
 Slope = 0.2946
 units per year.
 Mann-Kendall
 statistic = 117
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3D (bg)

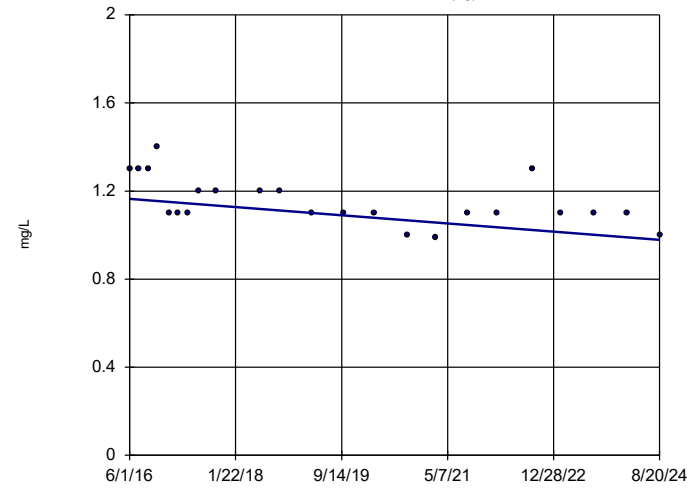


n = 23
 Slope = -0.0326
 units per year.
 Mann-Kendall
 statistic = -128
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3I (bg)

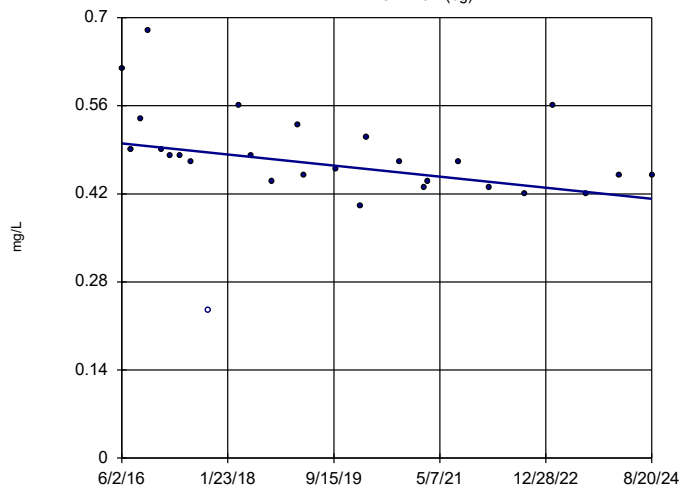


n = 23
 Slope = -0.0226
 units per year.
 Mann-Kendall
 statistic = -105
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3D (bg)

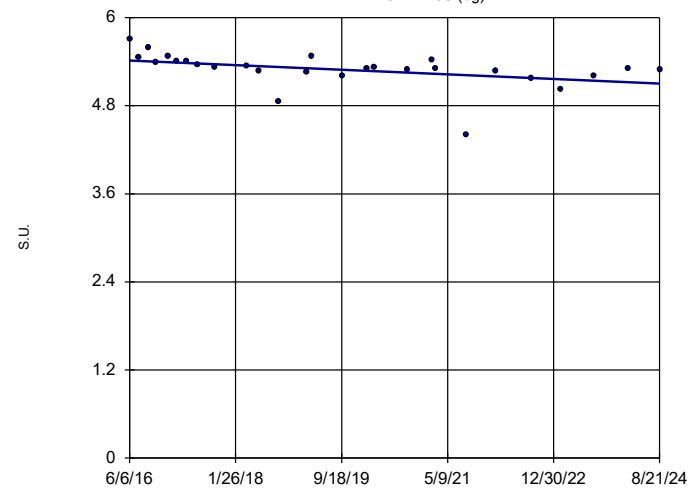


n = 27
 Slope = -0.01072
 units per year.
 Mann-Kendall
 statistic = -141
 critical = -124
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 11/5/2024 7:46 PM View: Appendix III - Upgradient Wells Scree
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator

YGWA-18S (bg)

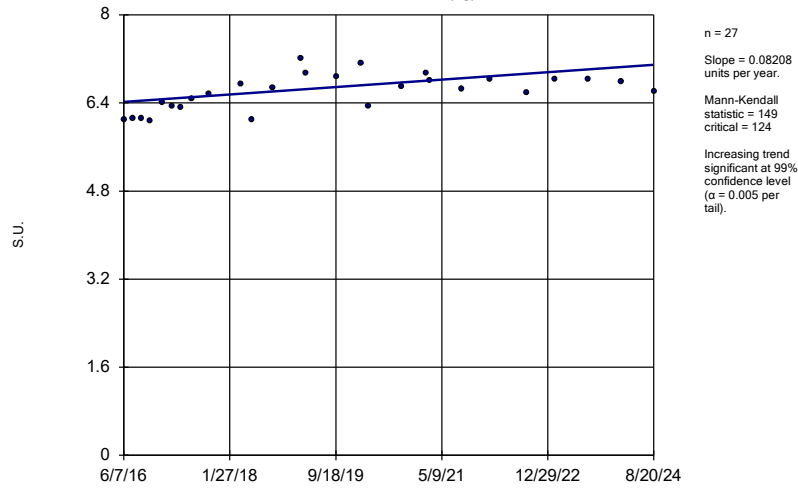


n = 27
 Slope = -0.0383
 units per year.
 Mann-Kendall
 statistic = -183
 critical = -124
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

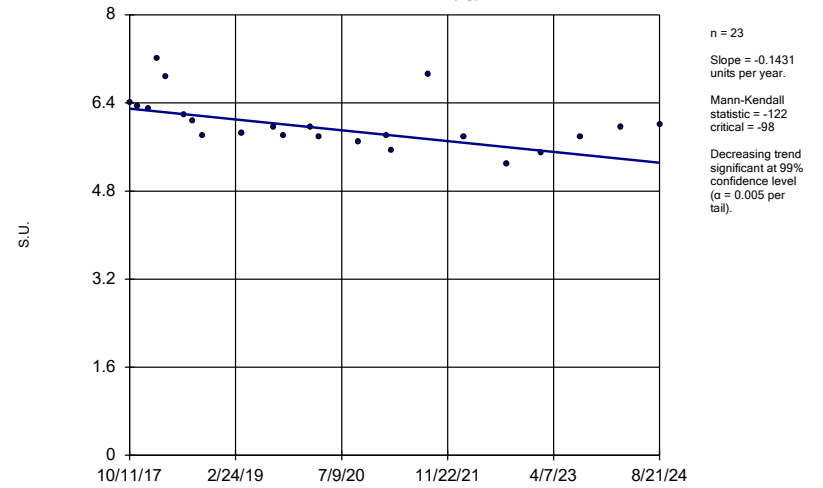
YGWA-211 (bg)



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

Sen's Slope Estimator

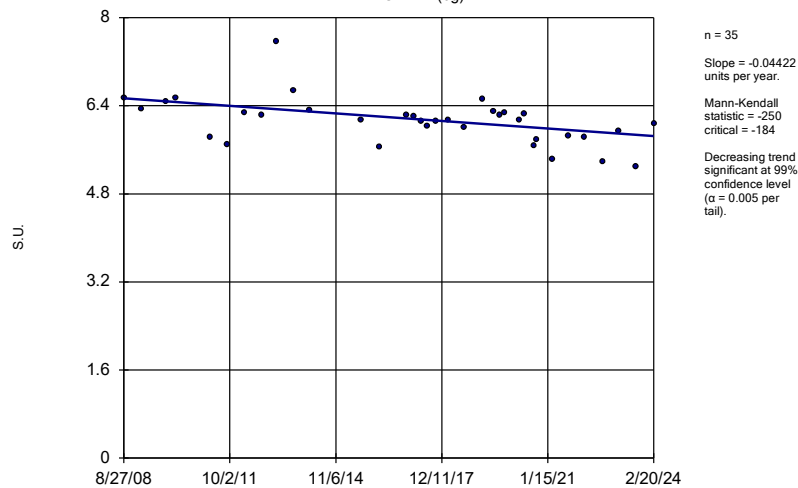
YGWA-39 (bg)



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

Sen's Slope Estimator

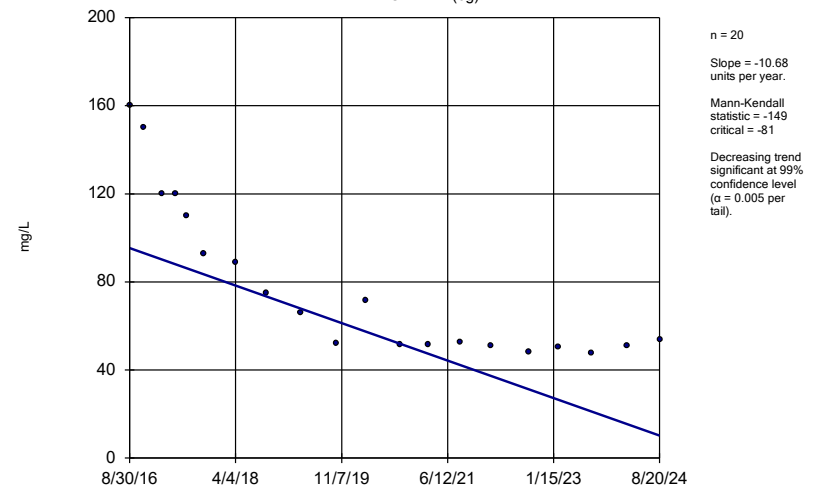
GWA-2 (bg)



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

Sen's Slope Estimator

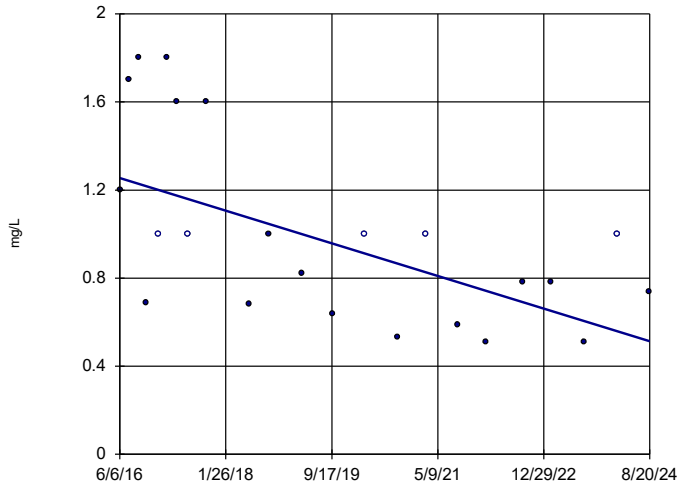
YGWA-47 (bg)



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

Sen's Slope Estimator

YGWA-18I (bg)

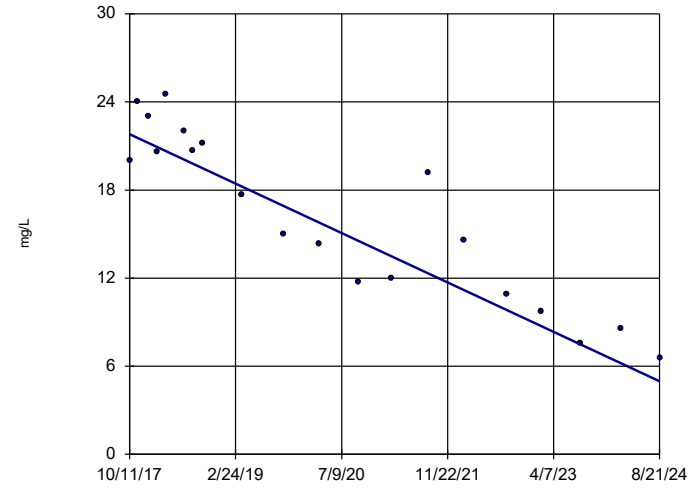


n = 23
 Slope = -0.09033
 units per year.
 Mann-Kendall
 statistic = -116
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-39 (bg)

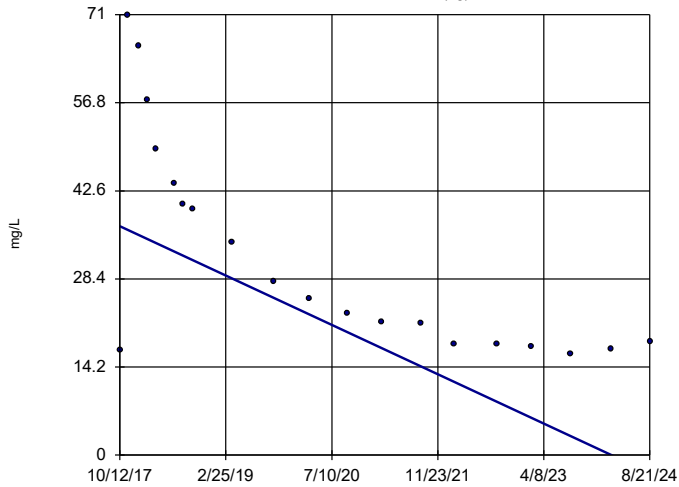


n = 20
 Slope = -2.451
 units per year.
 Mann-Kendall
 statistic = -142
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-40 (bg)

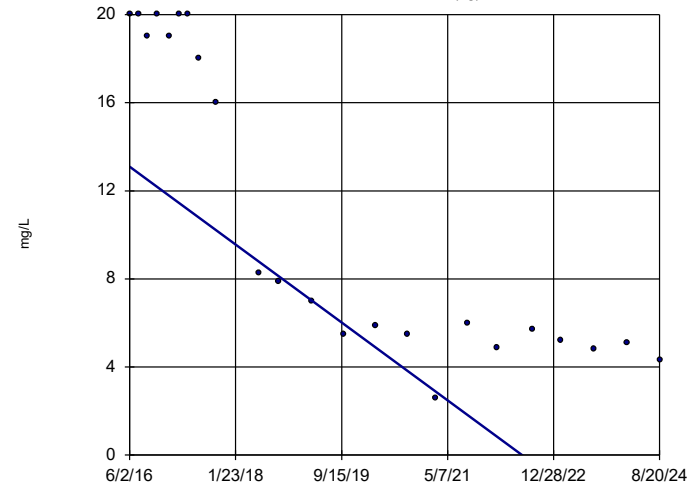


n = 20
 Slope = -5.801
 units per year.
 Mann-Kendall
 statistic = -141
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5D (bg)

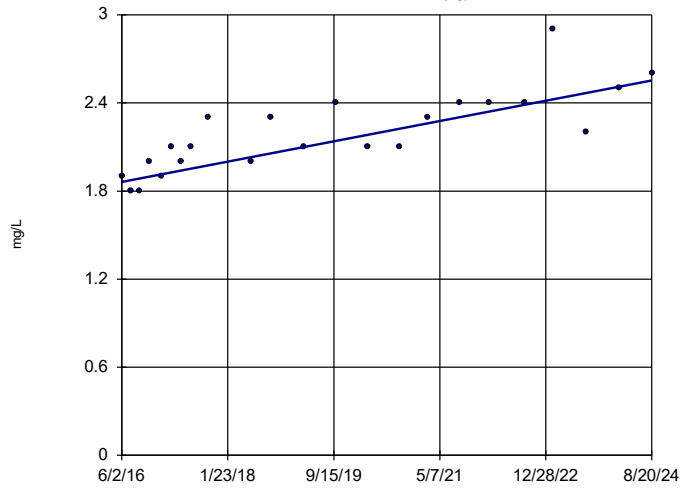


n = 23
 Slope = -2.152
 units per year.
 Mann-Kendall
 statistic = -197
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5I (bg)

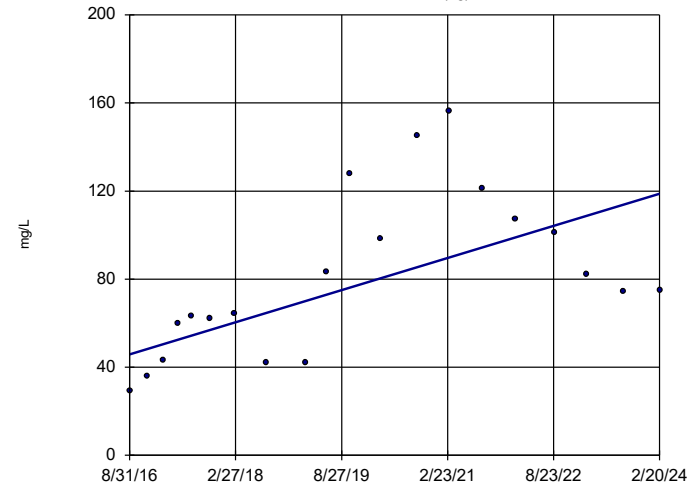


n = 23
 Slope = 0.0842
 units per year.
 Mann-Kendall
 statistic = 177
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

GWA-2 (bg)

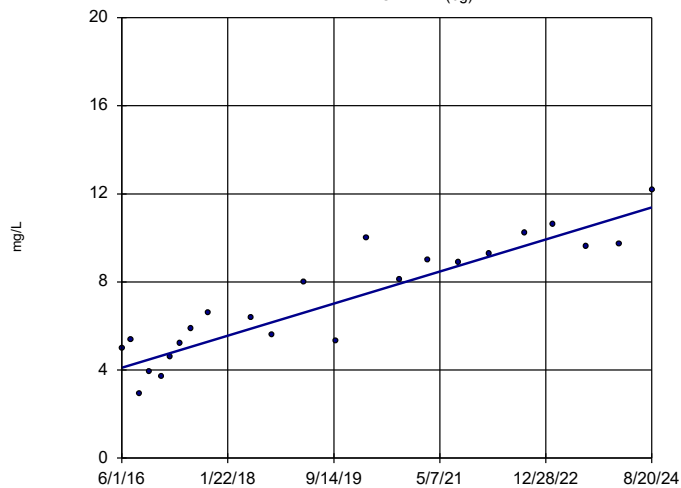


n = 20
 Slope = 9.755
 units per year.
 Mann-Kendall
 statistic = 89
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-1D (bg)

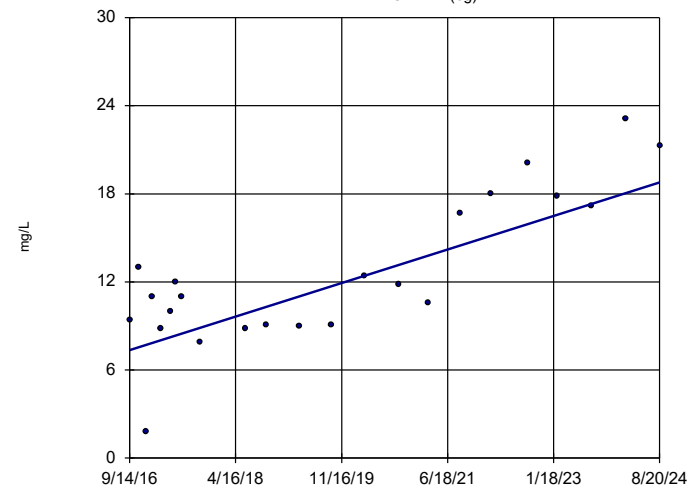


n = 23
 Slope = 0.8848
 units per year.
 Mann-Kendall
 statistic = 191
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-2I (bg)

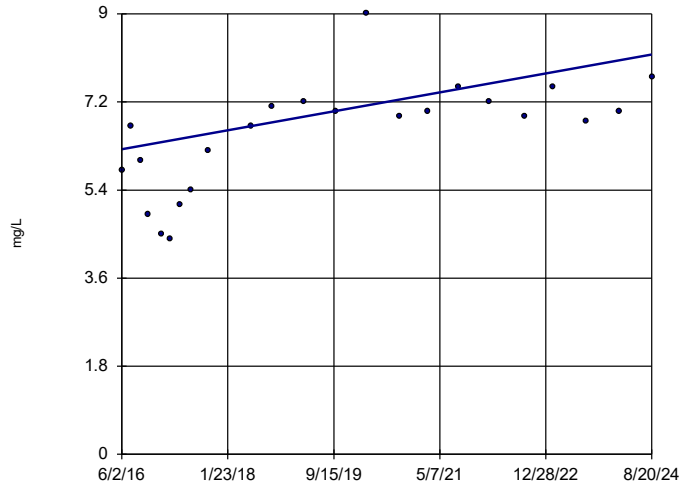


n = 23
 Slope = 1.44
 units per year.
 Mann-Kendall
 statistic = 132
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3D (bg)

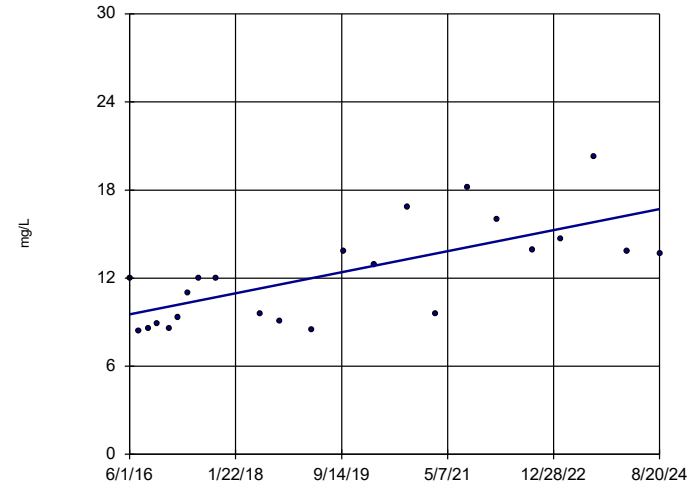


n = 23
 Slope = 0.2355
 units per year.
 Mann-Kendall
 statistic = 132
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3I (bg)

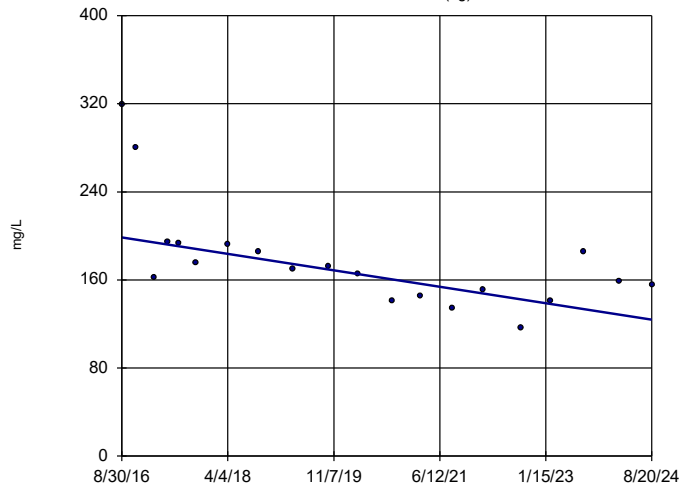


n = 23
 Slope = 0.8717
 units per year.
 Mann-Kendall
 statistic = 133
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-47 (bg)

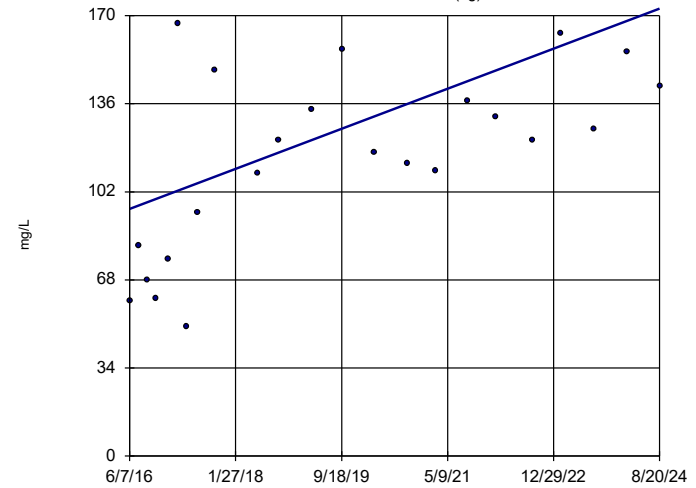


n = 20
 Slope = -9.336
 units per year.
 Mann-Kendall
 statistic = -108
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

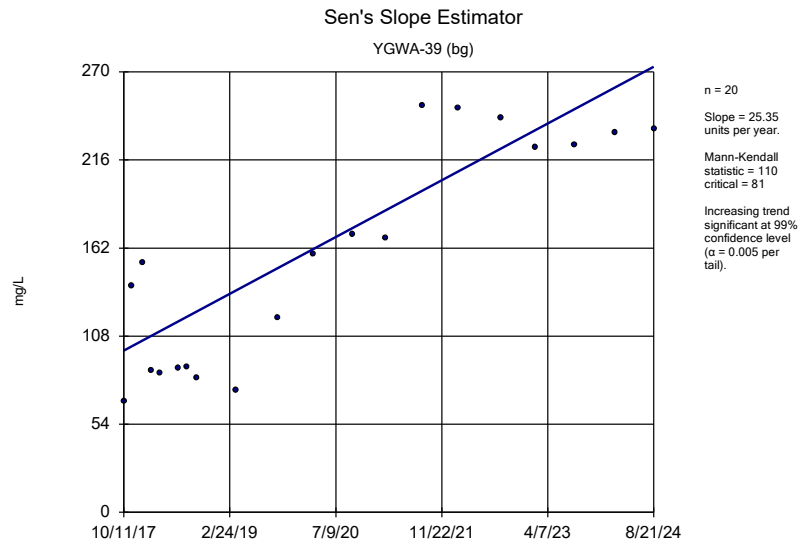
Sen's Slope Estimator

YGWA-21I (bg)



n = 23
 Slope = 9.422
 units per year.
 Mann-Kendall
 statistic = 118
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient
 Plant Yates Client: Southern Company Data: Yates Ash Pond1



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/5/2024 7:47 PM View: Appendix III - Upgradient
Plant Yates Client: Southern Company Data: Yates Ash Pond1

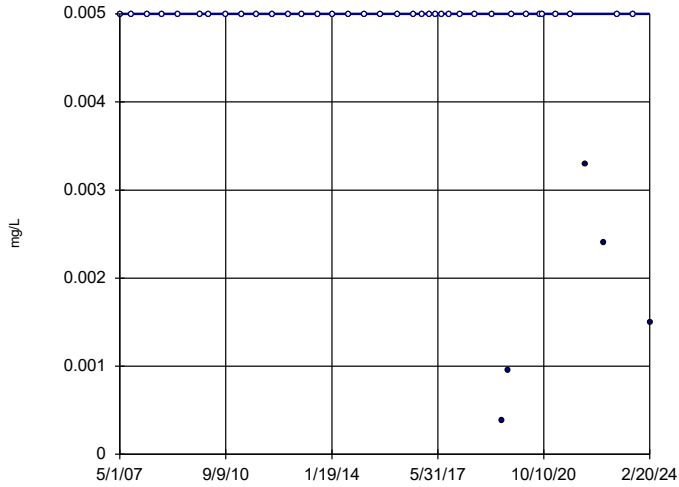
Appendix IV Trend Tests - Upgradient Wells - Significant Results

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) | -0.00006801 | -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 |

Sen's Slope Estimator

GWA-2 (bg)

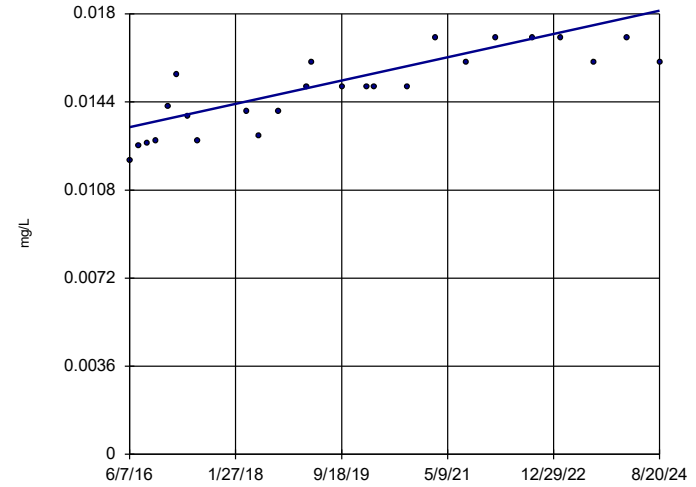


n = 41
 Slope = 0
 units per year.
 Mann-Kendall
 normal approx. =
 -2.681
 critical = -1.96
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-17S (bg)

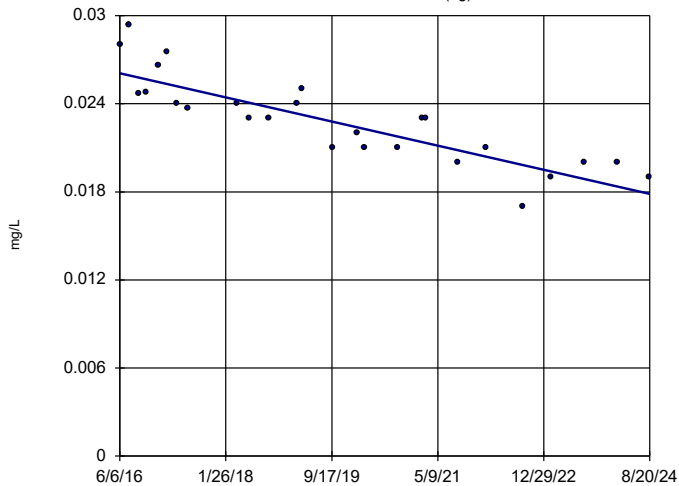


n = 25
 Slope = 0.0005801
 units per year.
 Mann-Kendall
 statistic = 208
 critical = 85
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-18I (bg)

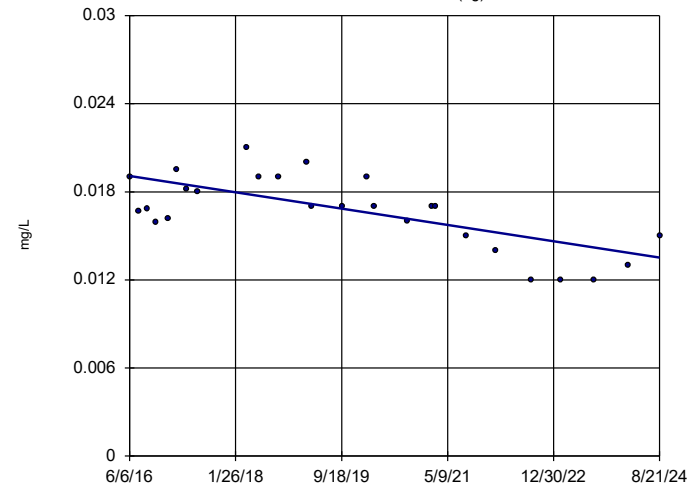


n = 26
 Slope = -0.001001
 units per year.
 Mann-Kendall
 statistic = -236
 critical = -90
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-18S (bg)

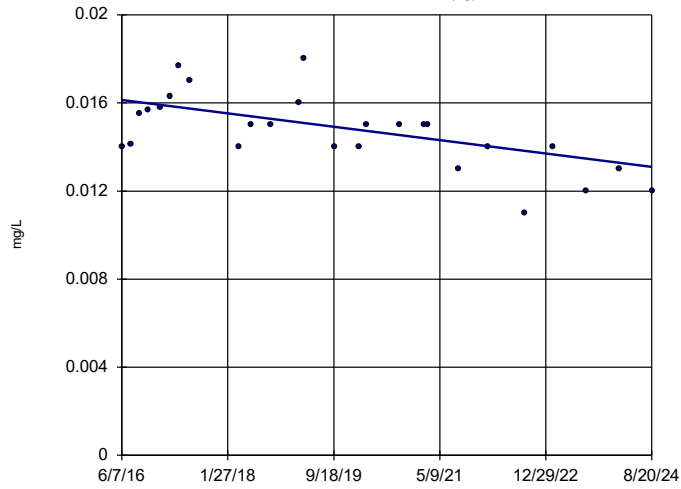


n = 26
 Slope = -0.0006772
 units per year.
 Mann-Kendall
 statistic = -137
 critical = -90
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-20S (bg)



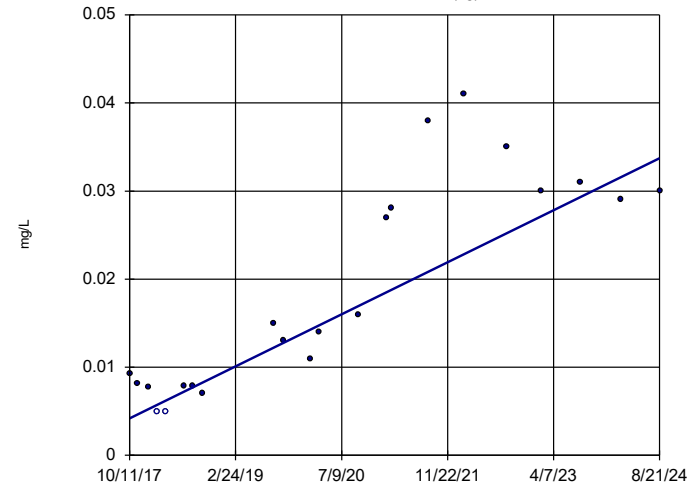
n = 26
 Slope = -0.0003692
 units per year.
 Mann-Kendall
 statistic = -133
 critical = -90
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)

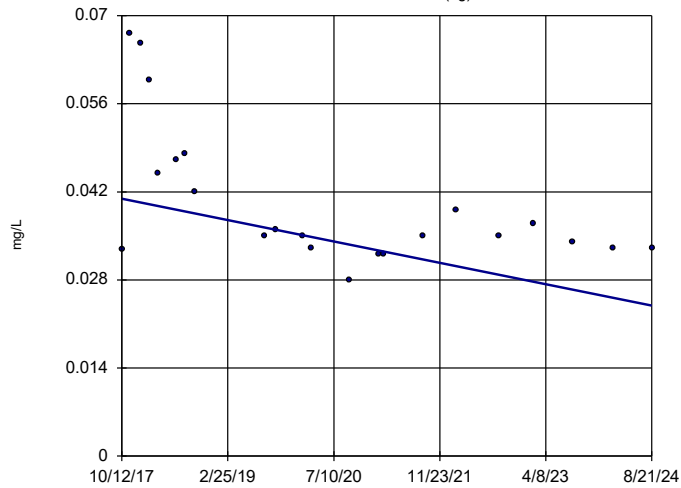


n = 22
 Slope = 0.0043
 units per year.
 Mann-Kendall
 statistic = 150
 critical = 71
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-40 (bg)

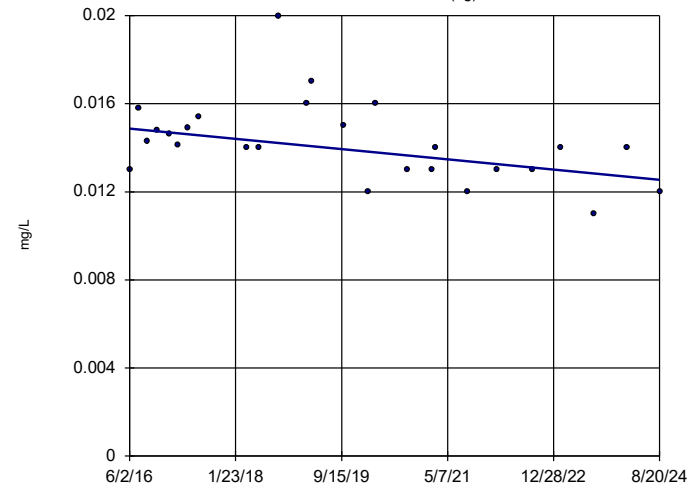


n = 22
 Slope = -0.002482
 units per year.
 Mann-Kendall
 statistic = -103
 critical = -71
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-4I (bg)

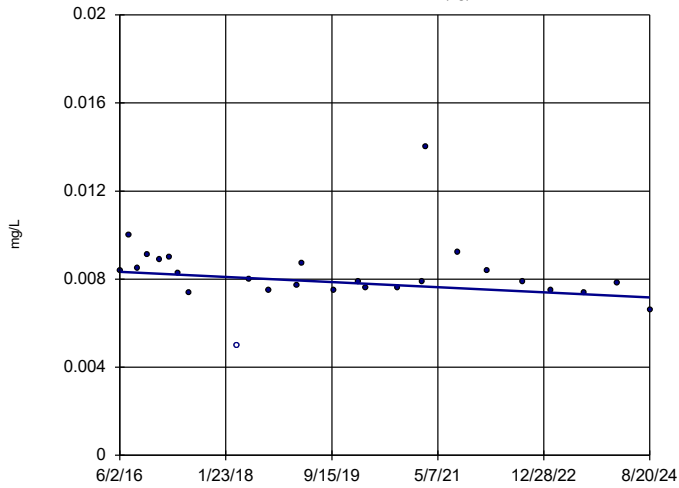


n = 26
 Slope = -0.0002834
 units per year.
 Mann-Kendall
 statistic = -107
 critical = -90
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-5D (bg)

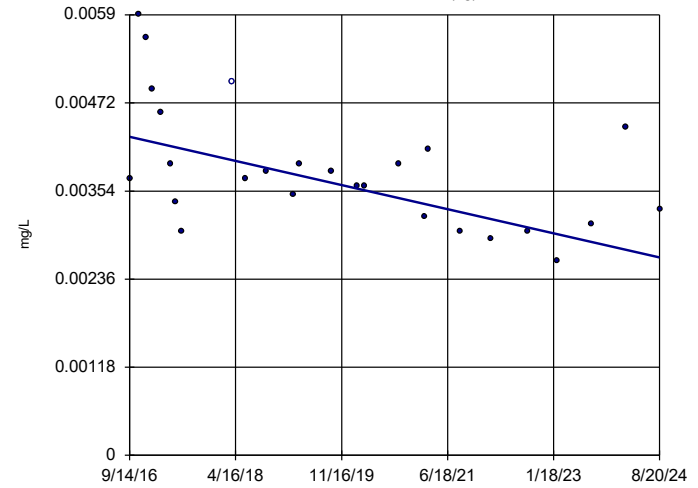


n = 26
Slope = -0.0001426
units per year.
Mann-Kendall
statistic = -92
critical = -90
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

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

Sen's Slope Estimator

YGWA-2I (bg)

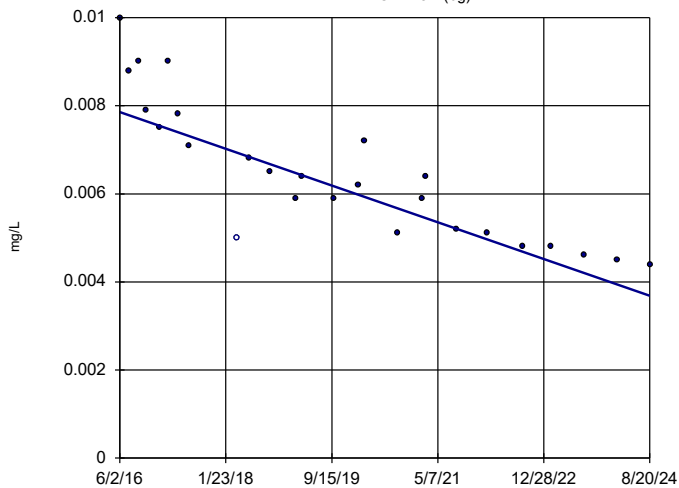


n = 26
Slope = -0.0002032
units per year.
Mann-Kendall
statistic = -134
critical = -90
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

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

Sen's Slope Estimator

YGWA-3D (bg)

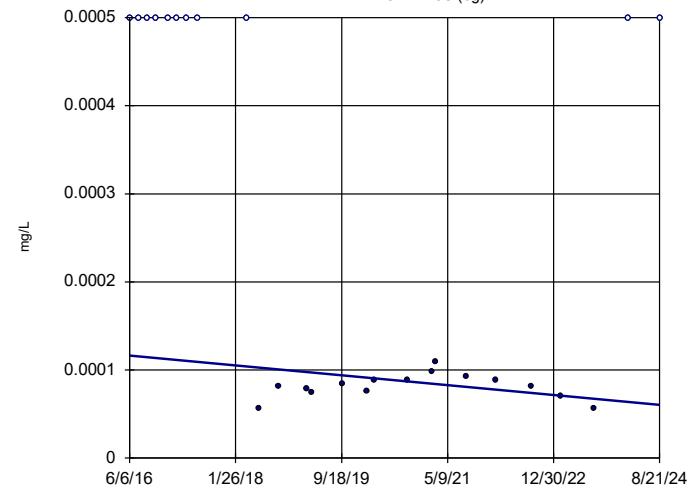


n = 26
Slope = -0.0005074
units per year.
Mann-Kendall
statistic = -250
critical = -90
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

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

Sen's Slope Estimator

YGWA-18S (bg)

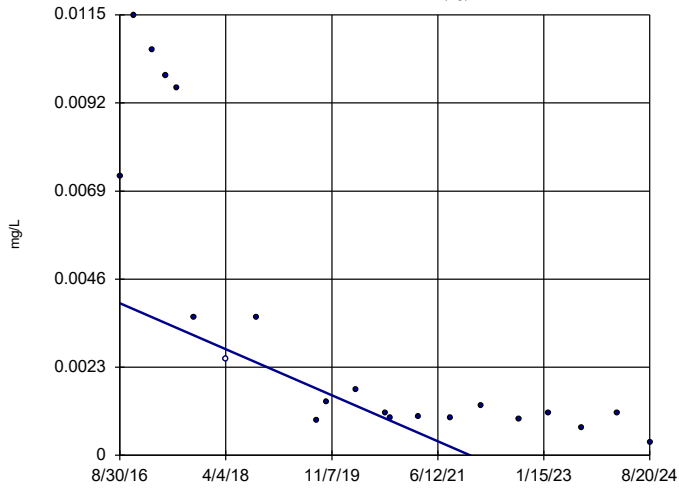


n = 26
Slope = -0.000006801
units per year.
Mann-Kendall
statistic = -91
critical = -90
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

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

Sen's Slope Estimator

YGWA-47 (bg)

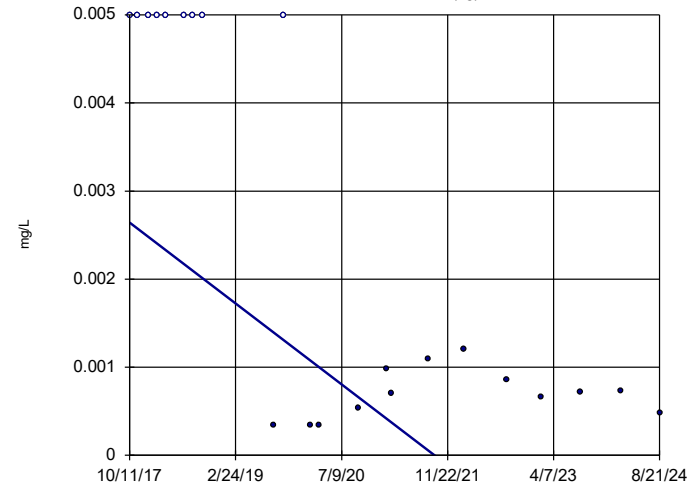


n = 21
 Slope = -0.0007522
 units per year.
 Mann-Kendall
 statistic = -144
 critical = -66
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-39 (bg)

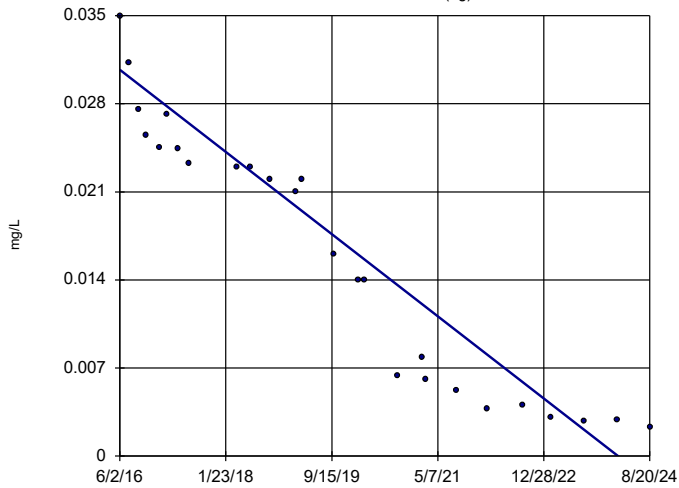


n = 22
 Slope = -0.000669
 units per year.
 Mann-Kendall
 statistic = -92
 critical = -71
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-30I (bg)

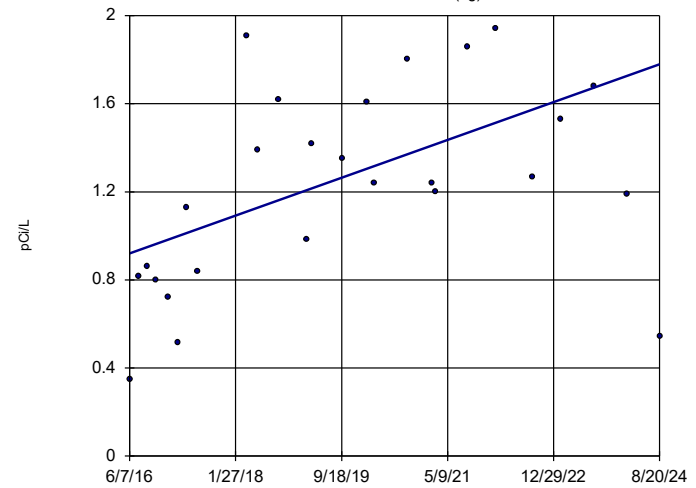


n = 26
 Slope = -0.003971
 units per year.
 Mann-Kendall
 statistic = -310
 critical = -90
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-21I (bg)

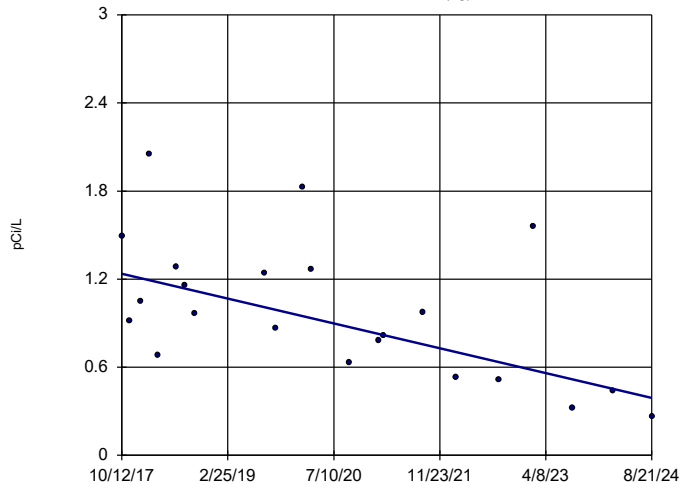


n = 26
 Slope = 0.1046
 units per year.
 Mann-Kendall
 statistic = 112
 critical = 90
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 11/5/2024 8:03 PM View: Appendix IV - Upgradient
 Wells Screening
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator

YGWA-40 (bg)

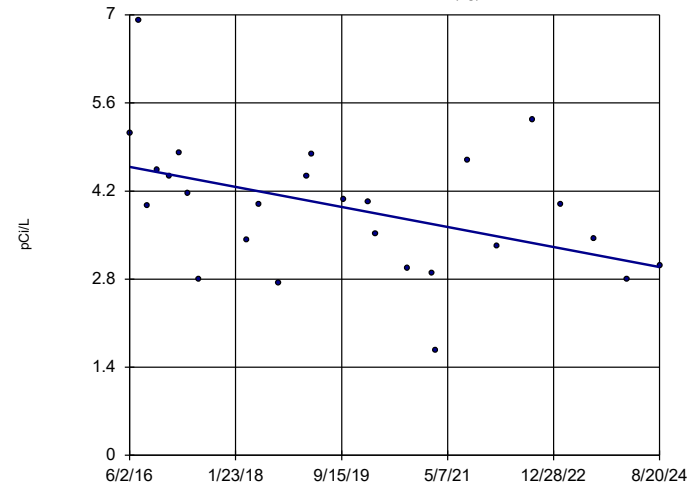


n = 22
 Slope = -0.1233
 units per year.
 Mann-Kendall
 statistic = -105
 critical = -71
 Decreasing trend
 significant at 95%
 confidence level
 (α = 0.025 per
 tail).

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

Sen's Slope Estimator

YGWA-5D (bg)

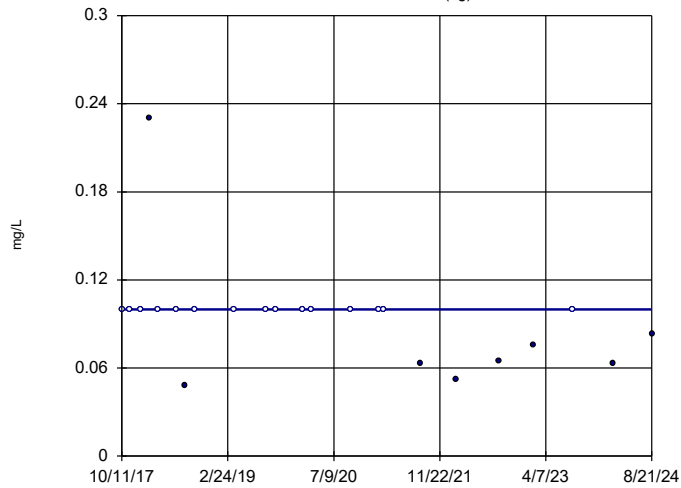


n = 26
 Slope = -0.1935
 units per year.
 Mann-Kendall
 statistic = -108
 critical = -90
 Decreasing trend
 significant at 95%
 confidence level
 (α = 0.025 per
 tail).

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

Sen's Slope Estimator

YGWA-39 (bg)

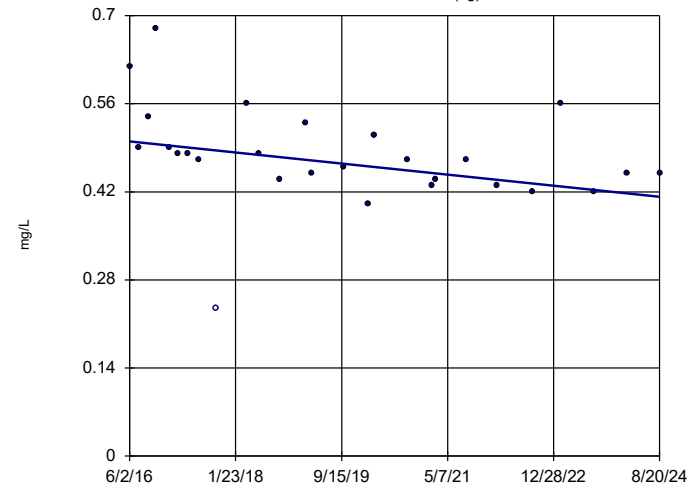


n = 23
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -79
 critical = -76
 Decreasing trend
 significant at 95%
 confidence level
 (α = 0.025 per
 tail).

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

Sen's Slope Estimator

YGWA-3D (bg)

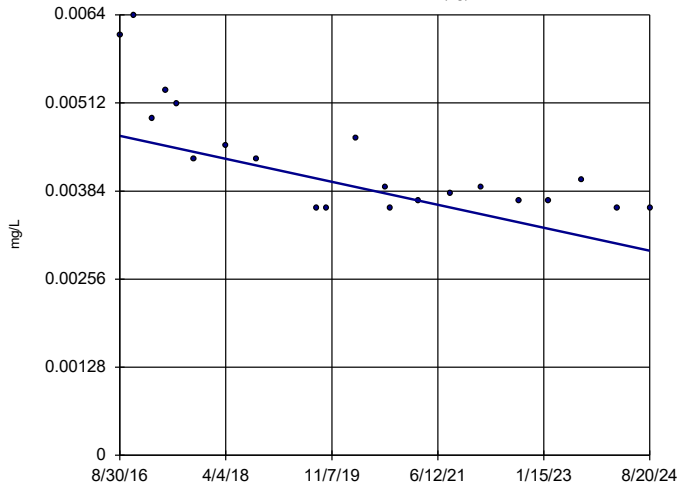


n = 27
 Slope = -0.01072
 units per year.
 Mann-Kendall
 statistic = -141
 critical = -96
 Decreasing trend
 significant at 95%
 confidence level
 (α = 0.025 per
 tail).

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

Sen's Slope Estimator

YGWA-47 (bg)



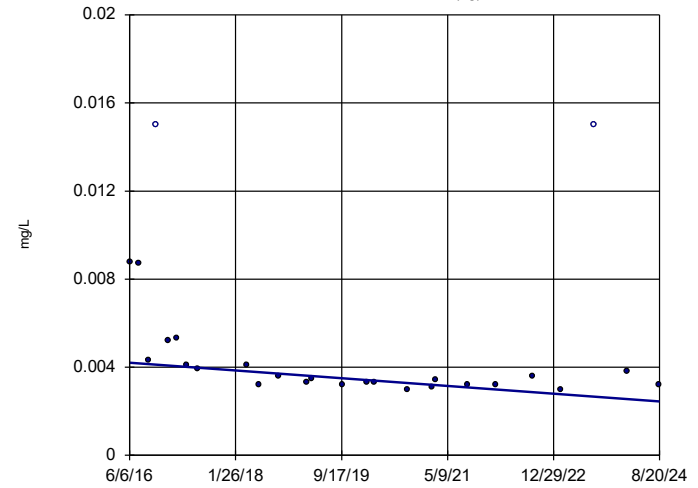
n = 21
 Slope = -0.000209
 units per year.
 Mann-Kendall
 statistic = -119
 critical = -66
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



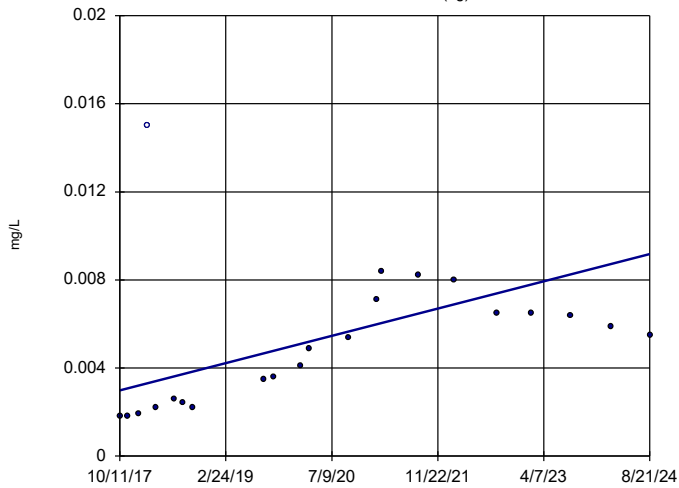
n = 26
 Slope = -0.000215
 units per year.
 Mann-Kendall
 statistic = -154
 critical = -90
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)

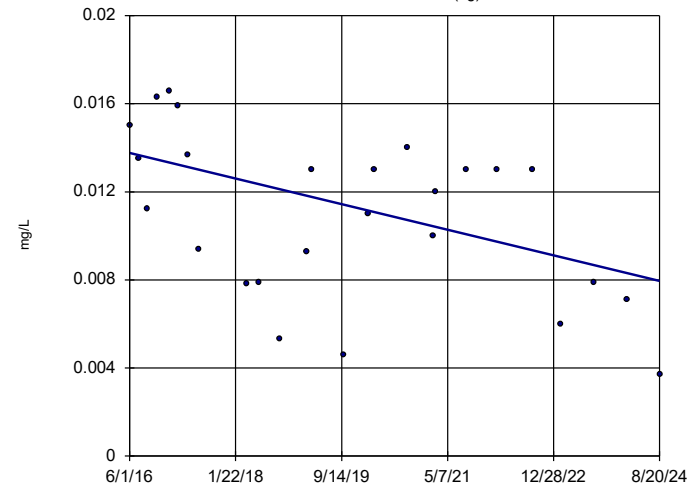


n = 22
 Slope = 0.0009005
 units per year.
 Mann-Kendall
 statistic = 122
 critical = 71
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-1D (bg)

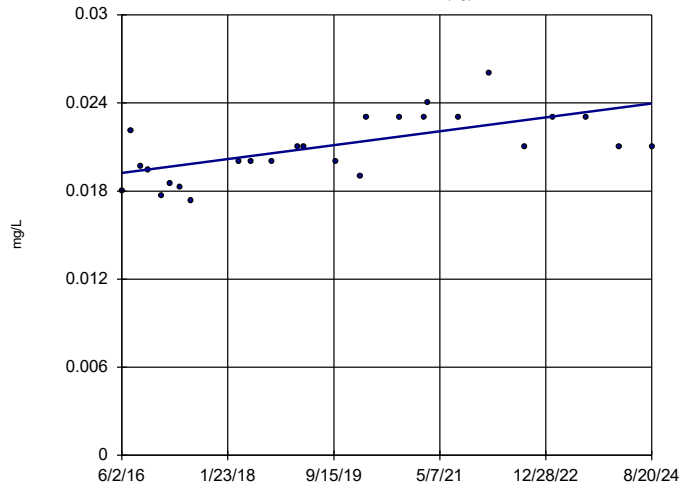


n = 26
 Slope = -0.0007084
 units per year.
 Mann-Kendall
 statistic = -110
 critical = -90
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-3D (bg)

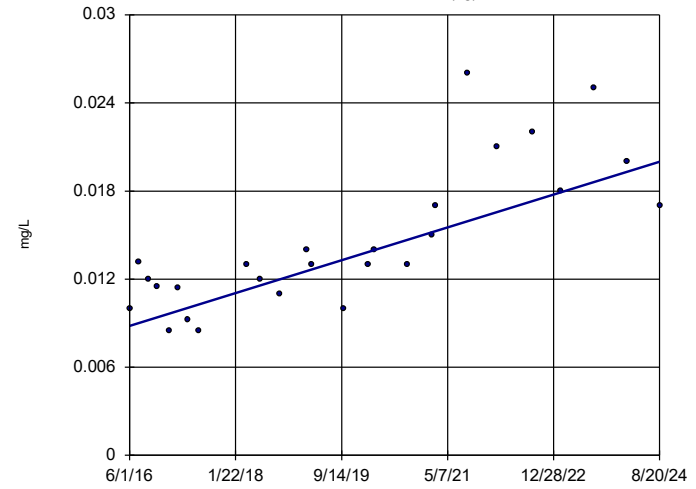


n = 26
 Slope = 0.0005738
 units per year.
 Mann-Kendall
 statistic = 158
 critical = 90
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

Sen's Slope Estimator

YGWA-3I (bg)

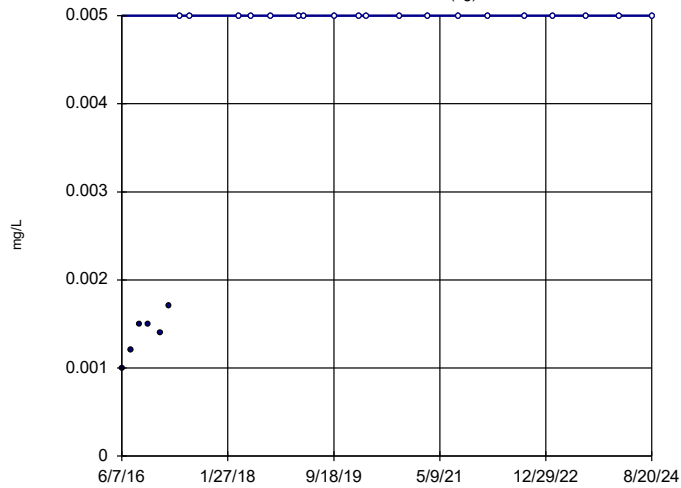


n = 26
 Slope = 0.001358
 units per year.
 Mann-Kendall
 statistic = 190
 critical = 90
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

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

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
 ($\alpha = 0.025$ 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 | NBg | Mean | Std. Dev. | %NDs | ND Adj. | TransformAlpha | Method |
|-------------------------------------|----------|------------|------------|-----------|---------|------|-----|-----|------|-----------|--------|---------|----------------|--|
| Boron, total (mg/L) | YGWC-44 | 0.16 | n/a | 8/21/2024 | 0.49 | Yes | 425 | n/a | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | n/a | 0.4717 | n/a | n/a | 0.00004922 NP Inter (normality) 1 of 2 |

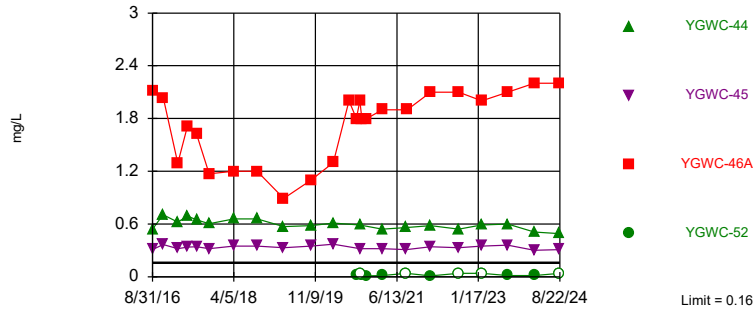
Appendix III Interwell Prediction Limits - All Results

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 | NBq | Mean | Std. Dev. | %NDs | ND Adj. | TransformAlpha | Method |
|---|-----------------|-------------|------------|------------------|-------------|------------|------------|------------|------------|------------|---------------|------------|----------------|---|
| Boron, total (mg/L) | YGWC-44 | 0.16 | n/a | 8/21/2024 | 0.49 | Yes | 425 | n/a | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | n/a | 0.4717 | n/a | n/a | 0.00004922 NP Inter (normality) 1 of 2 |

Exceeds Limit: YGWC-44, YGWC-45,
YGWC-46A

Prediction Limit
Interwell Non-parametric

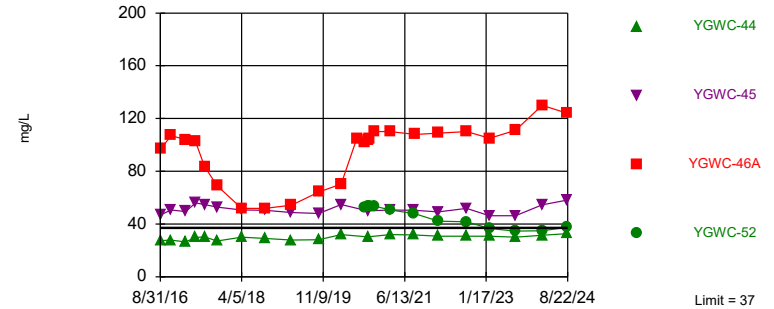


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 425 background values. 52.71% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Boron, total Analysis Run 11/5/2024 8:17 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Exceeds Limit: YGWC-45, YGWC-46A,
YGWC-52

Prediction Limit
Interwell Non-parametric

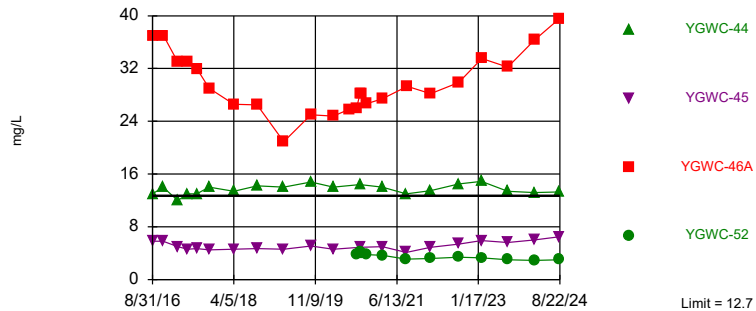


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 425 background values. 0.7059% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 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

Exceeds Limit: YGWC-44, YGWC-46A

Prediction Limit
Interwell Non-parametric

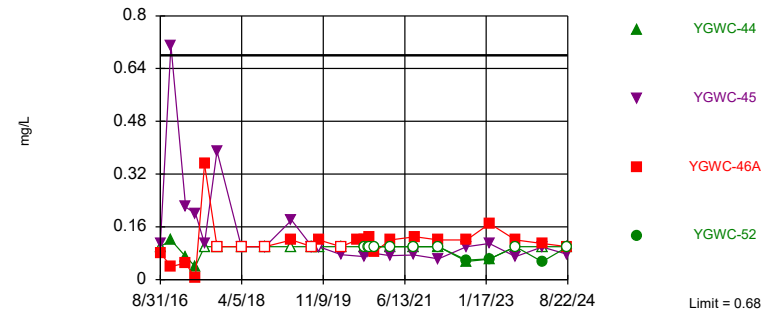


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 425 background values. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 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

Within Limit

Prediction Limit
Interwell Non-parametric

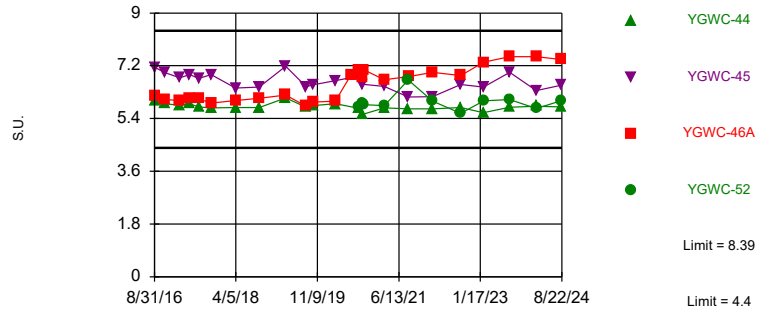


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 494 background values. 62.96% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Fluoride, total Analysis Run 11/5/2024 8:18 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Within Limits

Prediction Limit
Interwell Non-parametric

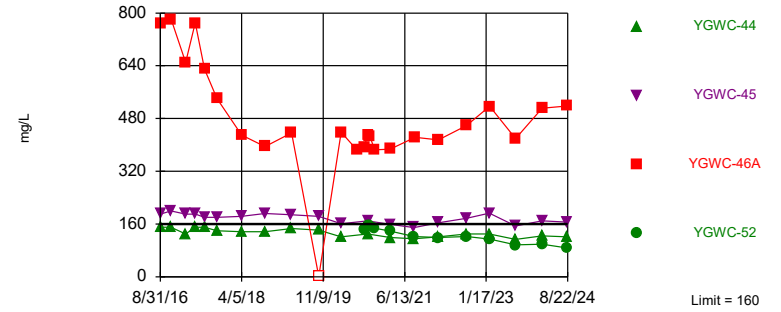


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 505 background values. Annual per-constituent alpha = 0.0007874. Individual comparison alpha = 0.00009844 (1 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

Exceeds Limit: YGWC-45, YGWC-46A

Prediction Limit
Interwell Non-parametric

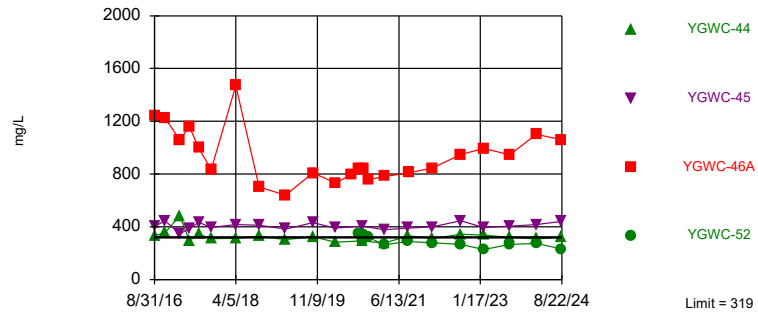


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 425 background values. 6.118% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 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

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 | | | |

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) | | | |

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 | | | | | | | | | |

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 | | | | |

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 | | | | | | | | | |

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 | | | | | | | | | |

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 | | | | | |

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-21 (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-21 (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 |

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-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 | | | | | | | | | |

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-21 (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-21 (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-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

| | YGWC-46A | YGWA-21 (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-21 (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 |

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 | | | | | | | | | |

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) |

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 | | | | | | | | | |

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-211 (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 | | | | |

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-211 (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 | |

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-211 (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) |

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 | | | | | | | | | |

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-21 (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 | | | | | |

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-21 (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 | | | | | |

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-21 (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-21 (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 |

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

| | 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

| | 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-21 (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-21 (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-21 (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 | | | |

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 | | | |

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 | | | | |

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 | | | | | | | | | |

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 | | | | | | | | | |

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-21 (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 | | |

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-21 (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 | | |

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-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

| | YGWC-46A | YGWA-21 (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-21 (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-21 (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 |

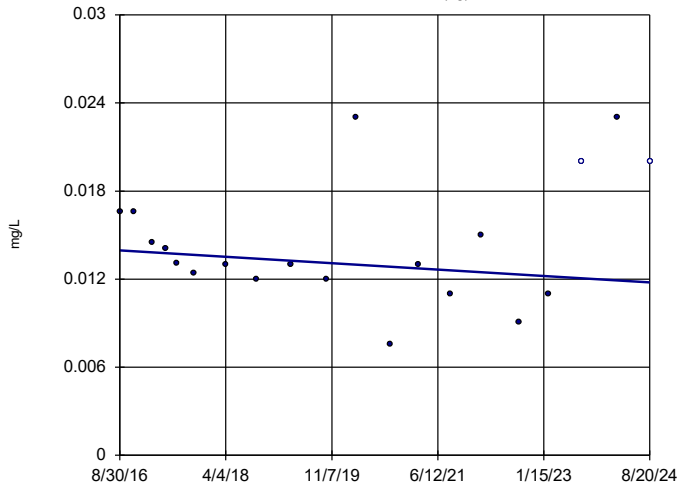
Appendix III Trend Tests - All Results

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 |

Sen's Slope Estimator

YGWA-47 (bg)

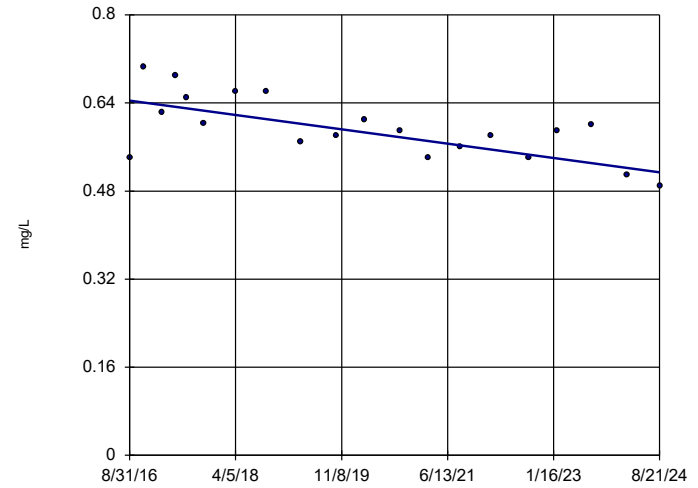


n = 20
Slope = -0.0002753
units per year.
Mann-Kendall
statistic = -20
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWC-44

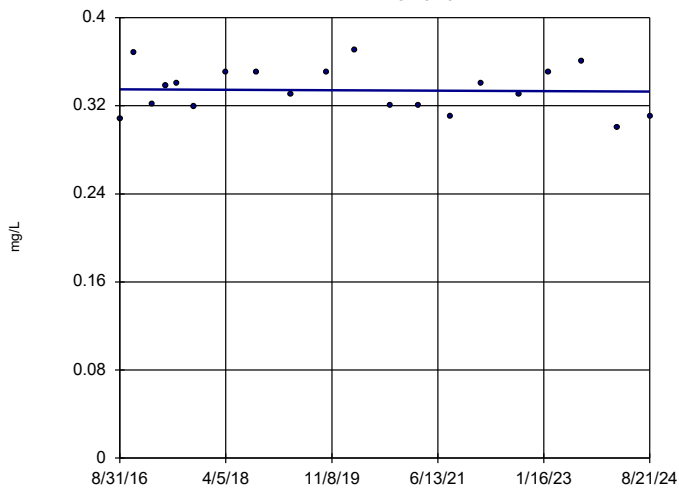


n = 20
Slope = -0.01632
units per year.
Mann-Kendall
statistic = -92
critical = -81
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWC-45

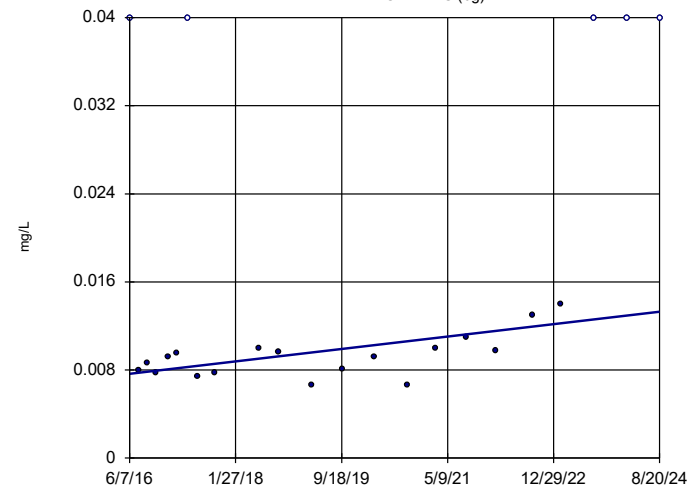


n = 20
Slope = -0.0002647
units per year.
Mann-Kendall
statistic = -12
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-17S (bg)

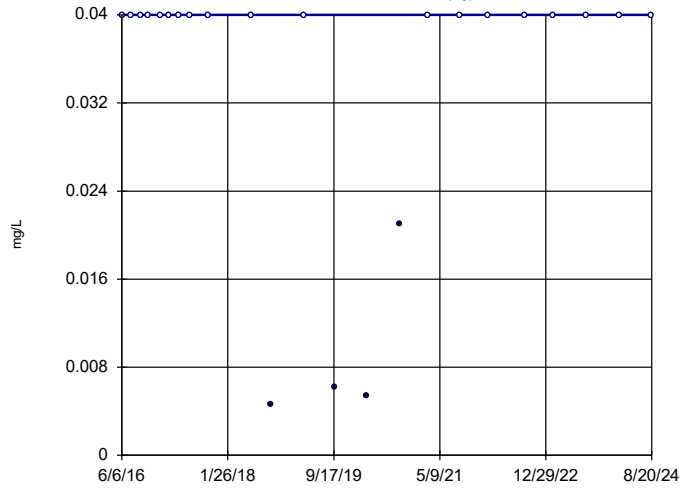


n = 23
Slope = 0.0006852
units per year.
Mann-Kendall
statistic = 91
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-18I (bg)

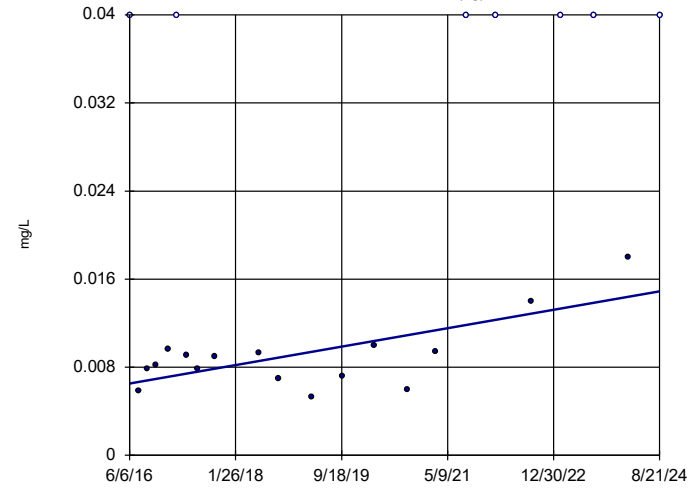


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = -6
critical = -98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-18S (bg)

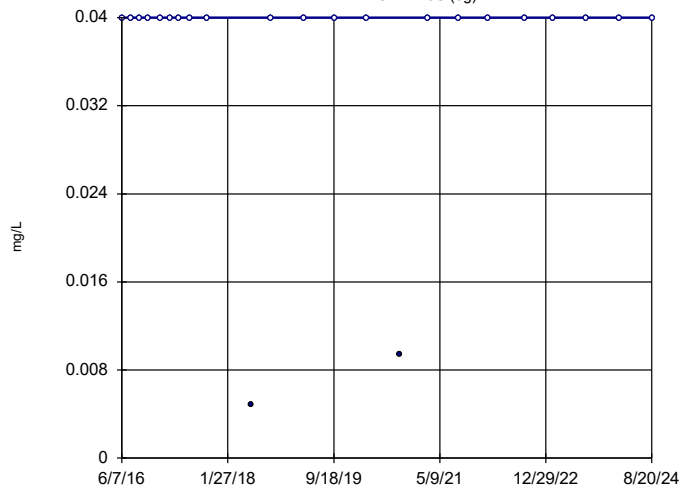


n = 23
Slope = 0.001019
units per year.
Mann-Kendall
statistic = 79
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-20S (bg)

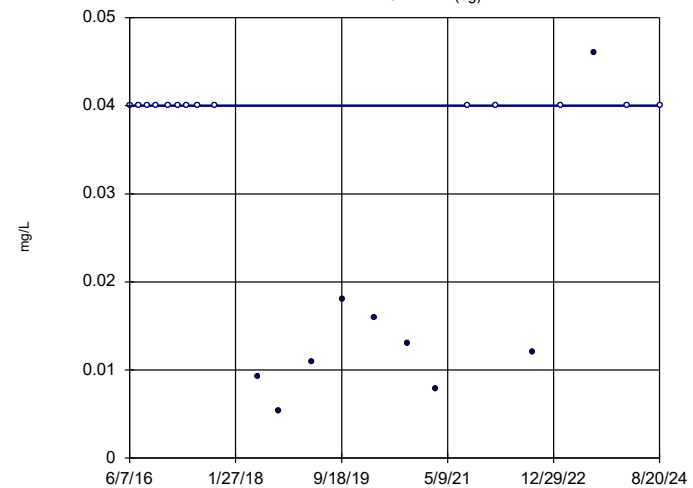


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = -1
critical = -98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-21I (bg)

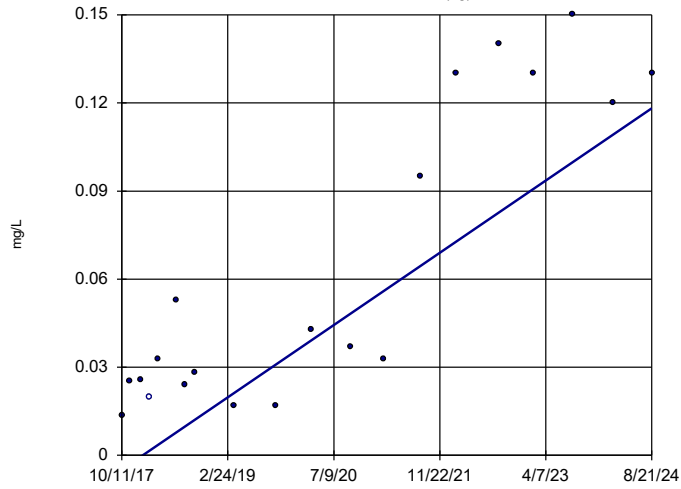


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = -14
critical = -98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-39 (bg)

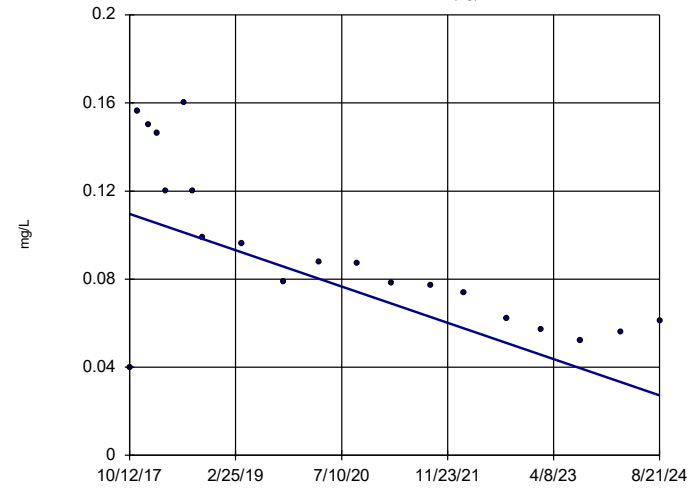


n = 20
Slope = 0.01793
units per year.
Mann-Kendall
statistic = 115
critical = 81
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-40 (bg)

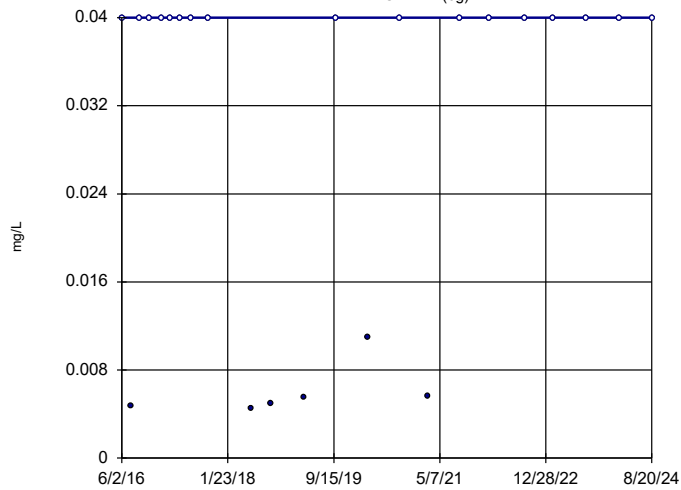


n = 20
Slope = -0.01202
units per year.
Mann-Kendall
statistic = -131
critical = -81
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-41 (bg)

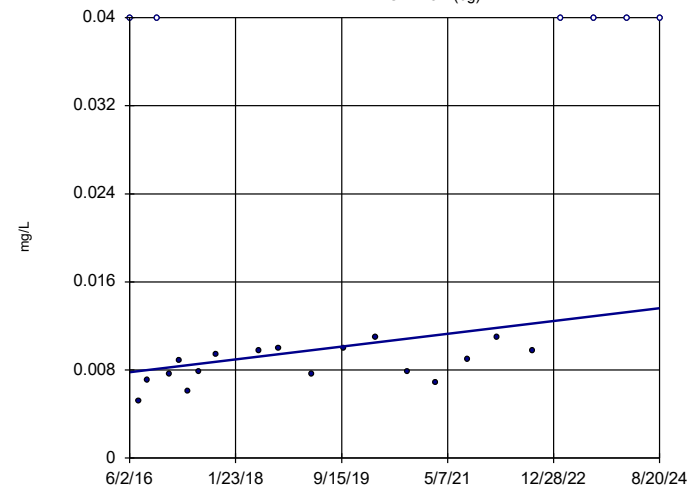


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 25
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-5D (bg)

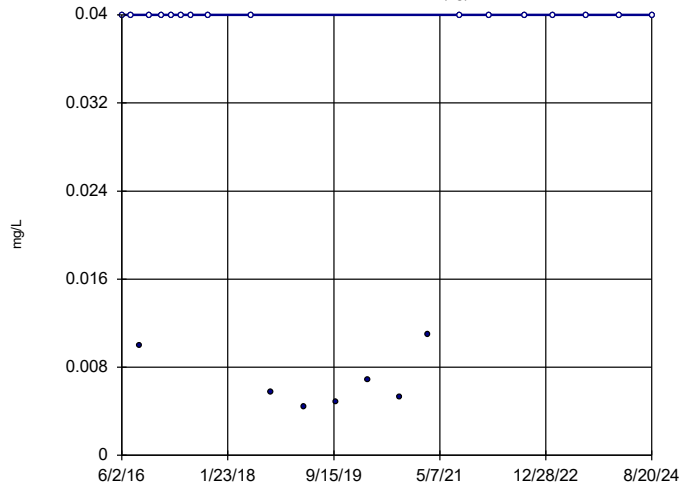


n = 23
Slope = 0.0007069
units per year.
Mann-Kendall
statistic = 99
critical = 98
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-5I (bg)

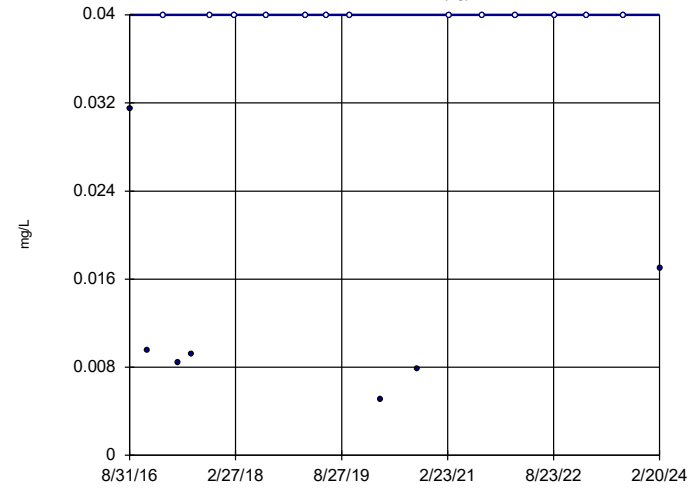


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 3
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

GWA-2 (bg)

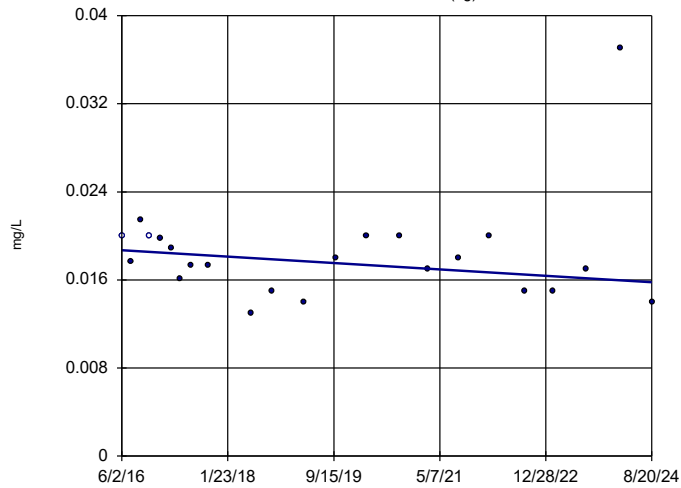


n = 20
Slope = 0
units per year.
Mann-Kendall
statistic = 26
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-14S (bg)

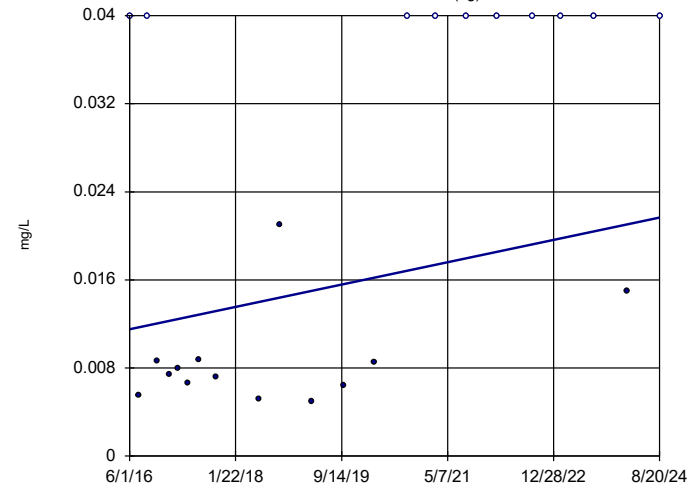


n = 23
Slope = -0.0003528
units per year.
Mann-Kendall
statistic = -52
critical = -98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-1D (bg)

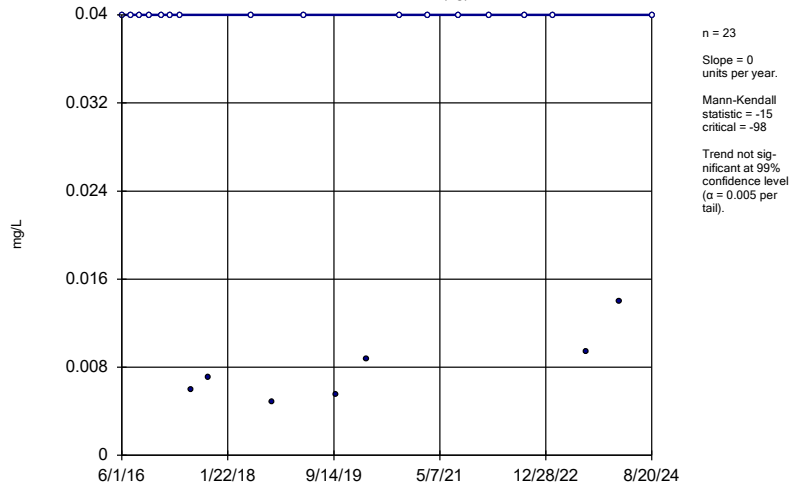


n = 23
Slope = 0.001231
units per year.
Mann-Kendall
statistic = 72
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

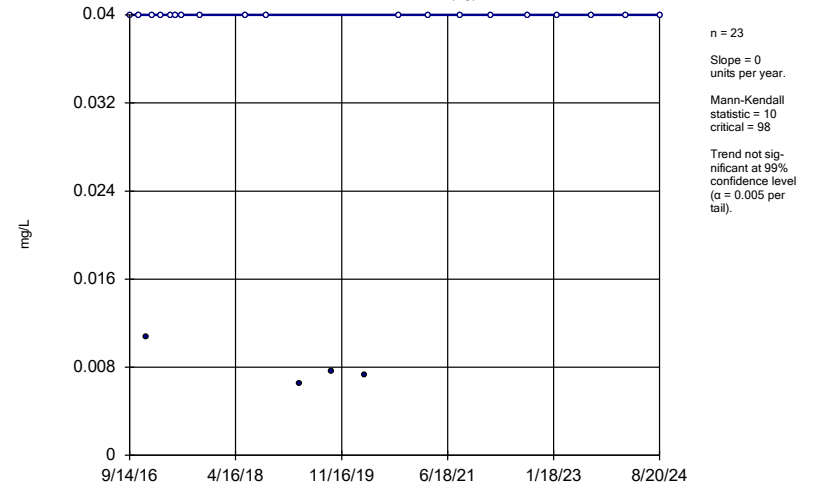
YGWA-11 (bg)



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

Sen's Slope Estimator

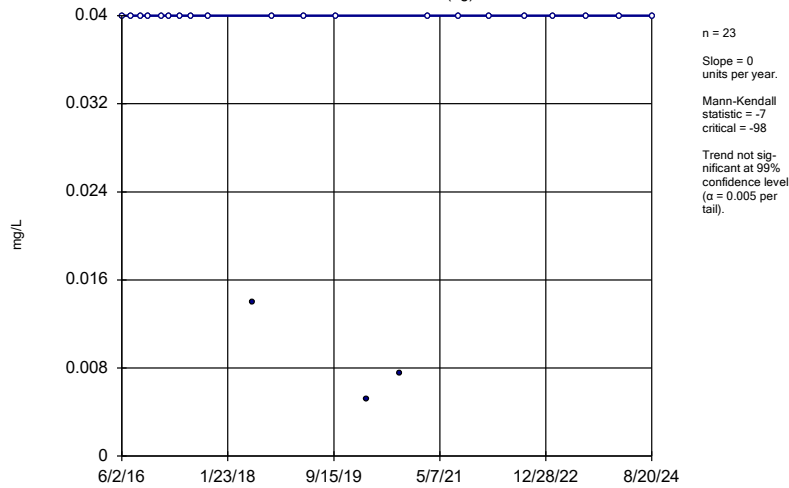
YGWA-21 (bg)



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

Sen's Slope Estimator

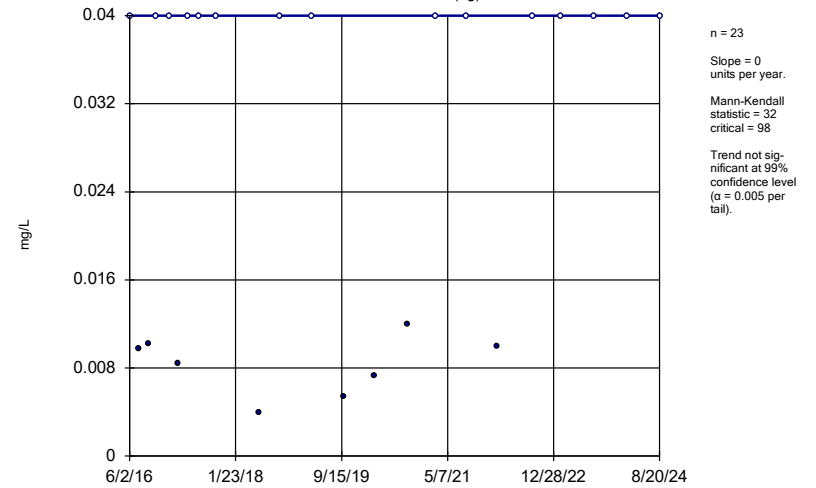
YGWA-30I (bg)



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

Sen's Slope Estimator

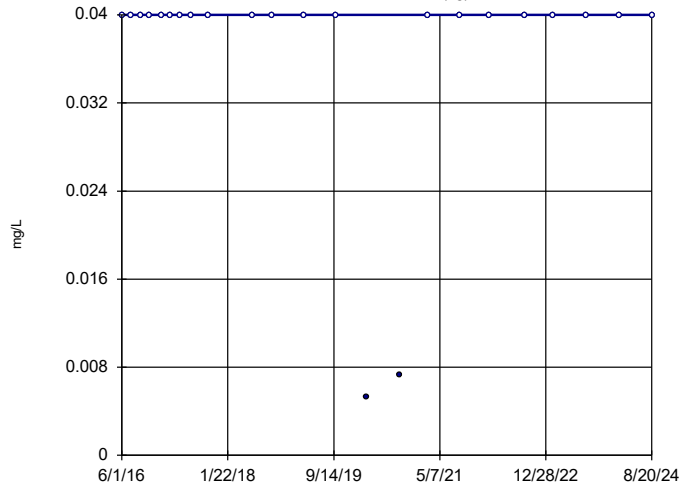
YGWA-3D (bg)



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

Sen's Slope Estimator

YGWA-3l (bg)

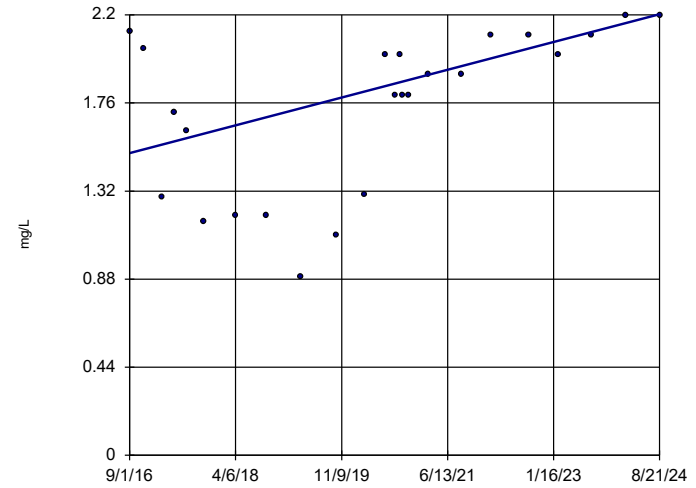


n = 23
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWC-46A

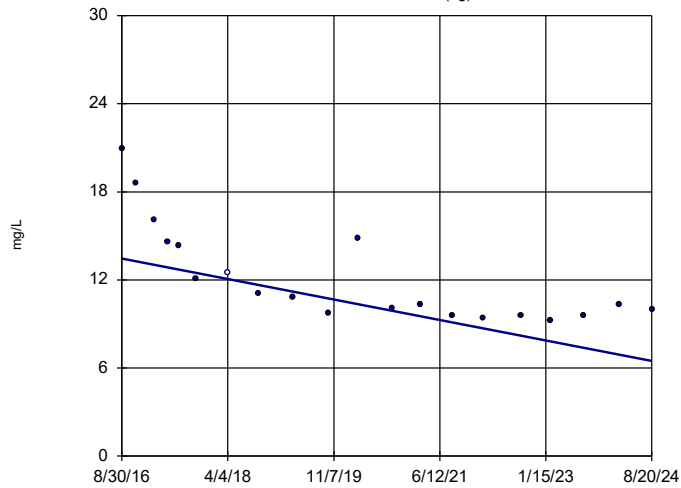


n = 24
 Slope = 0.08703
 units per year.
 Mann-Kendall
 statistic = 118
 critical = 105
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-47 (bg)

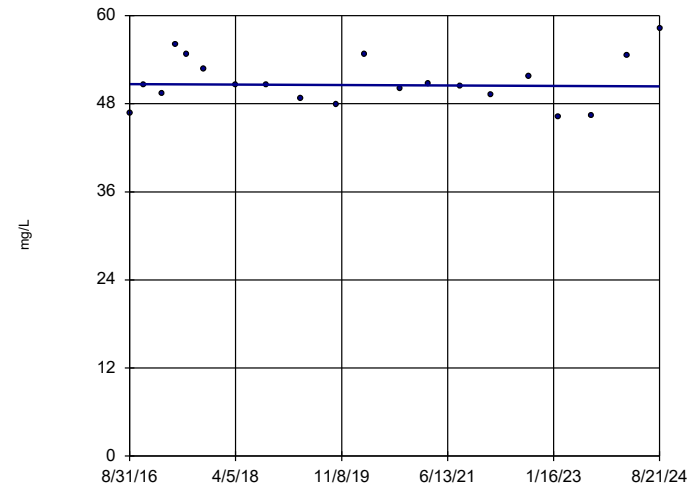


n = 20
 Slope = -0.8737
 units per year.
 Mann-Kendall
 statistic = -132
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWC-45

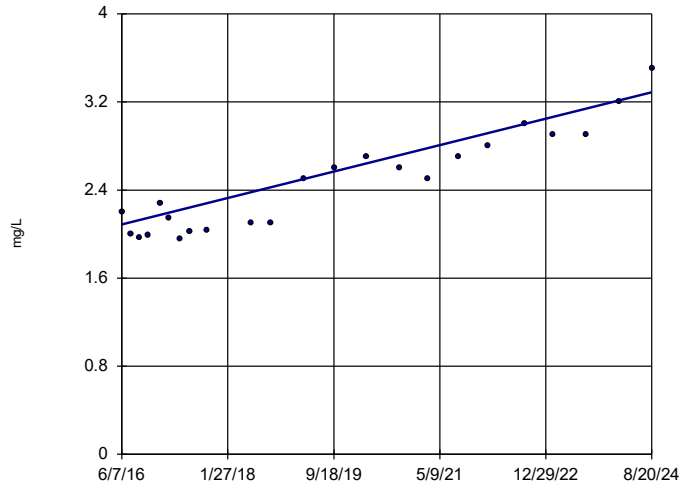


n = 20
 Slope = -0.03813
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-17S (bg)

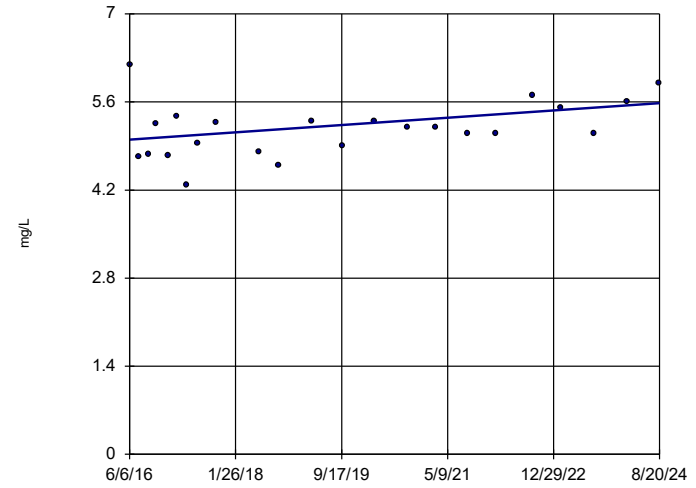


n = 23
 Slope = 0.1465
 units per year.
 Mann-Kendall
 statistic = 186
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-18I (bg)

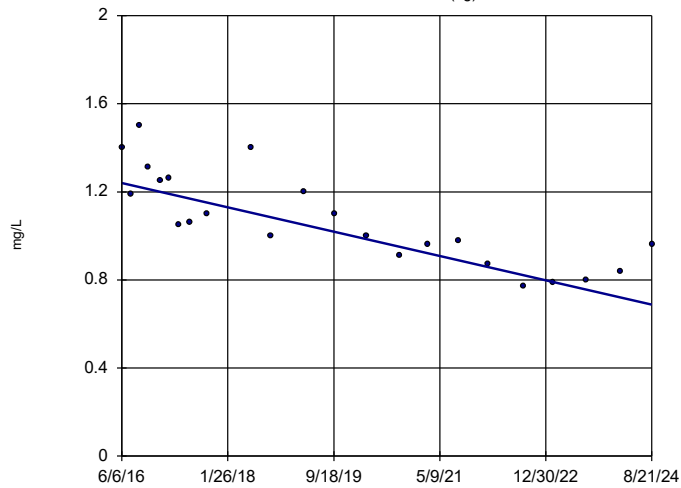


n = 23
 Slope = 0.07089
 units per year.
 Mann-Kendall
 statistic = 76
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-18S (bg)

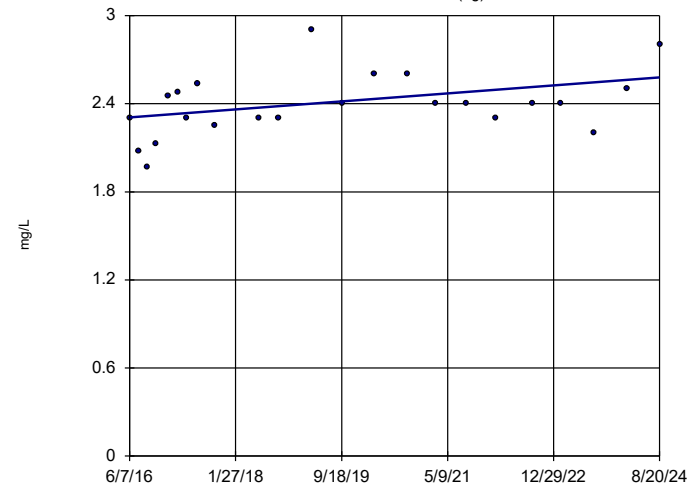


n = 23
 Slope = -0.06725
 units per year.
 Mann-Kendall
 statistic = -171
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-20S (bg)

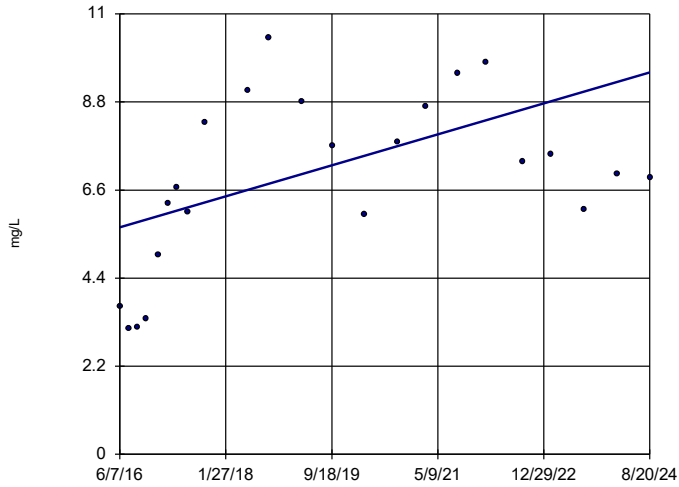


n = 23
 Slope = 0.0333
 units per year.
 Mann-Kendall
 statistic = 76
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-211 (bg)

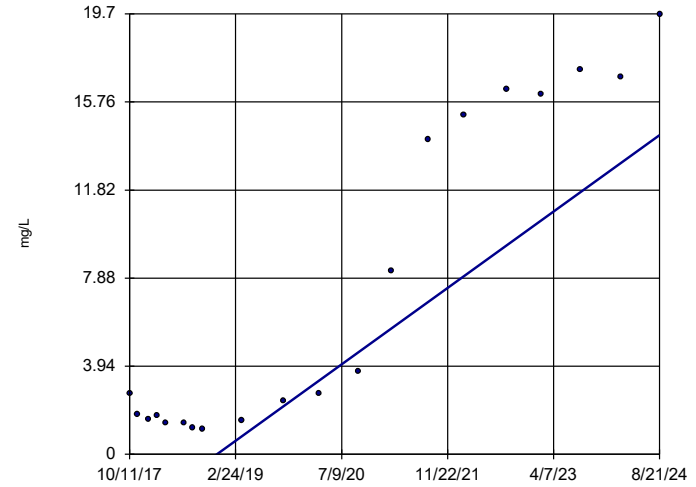


n = 23
 Slope = 0.4708
 units per year.
 Mann-Kendall
 statistic = 89
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-39 (bg)

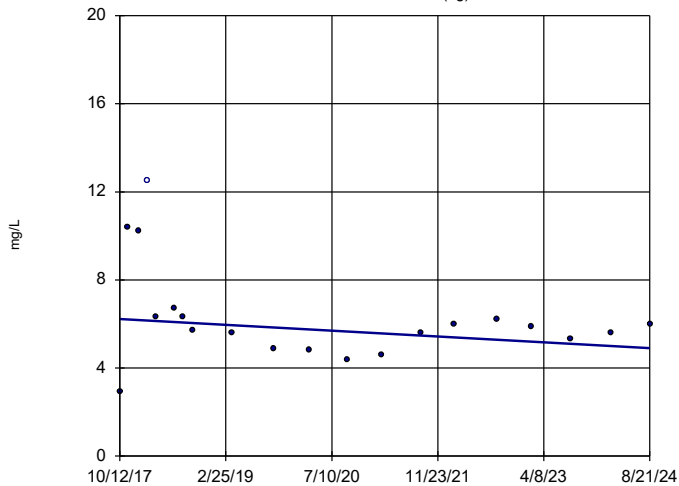


n = 20
 Slope = 2.49
 units per year.
 Mann-Kendall
 statistic = 121
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-40 (bg)

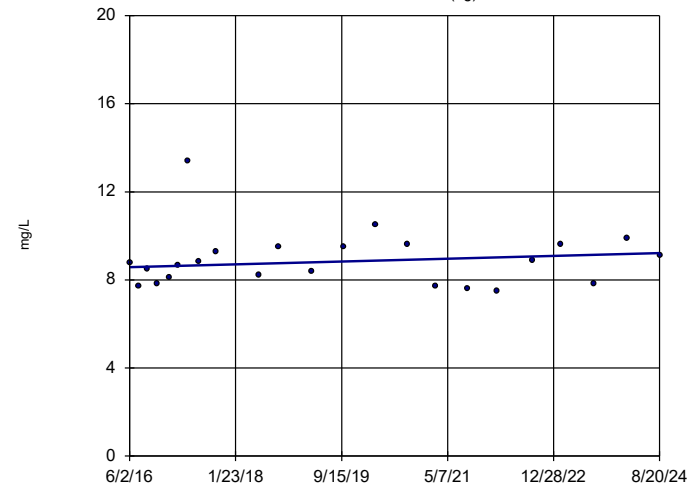


n = 20
 Slope = -0.194
 units per year.
 Mann-Kendall
 statistic = -49
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-41 (bg)

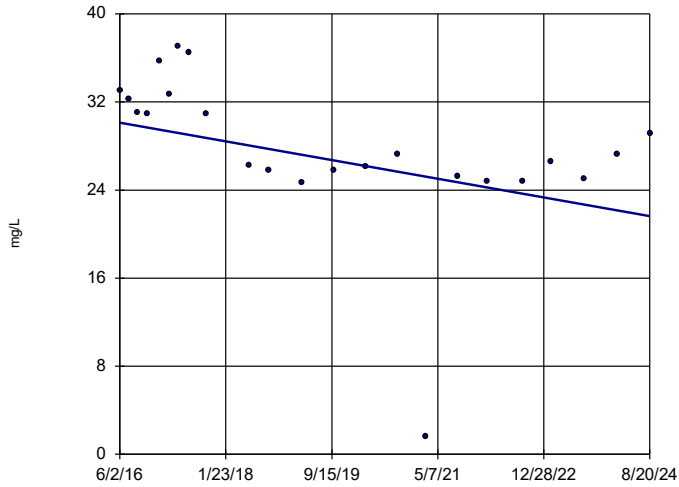


n = 23
 Slope = 0.07686
 units per year.
 Mann-Kendall
 statistic = 35
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5D (bg)

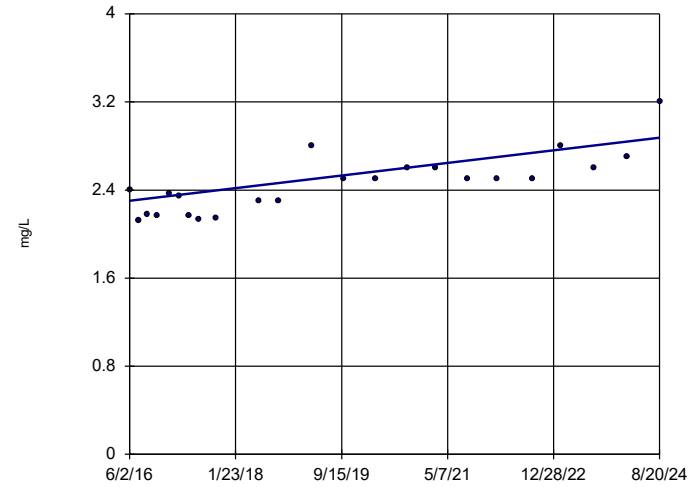


n = 23
 Slope = -1.034
 units per year.
 Mann-Kendall
 statistic = -107
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5I (bg)

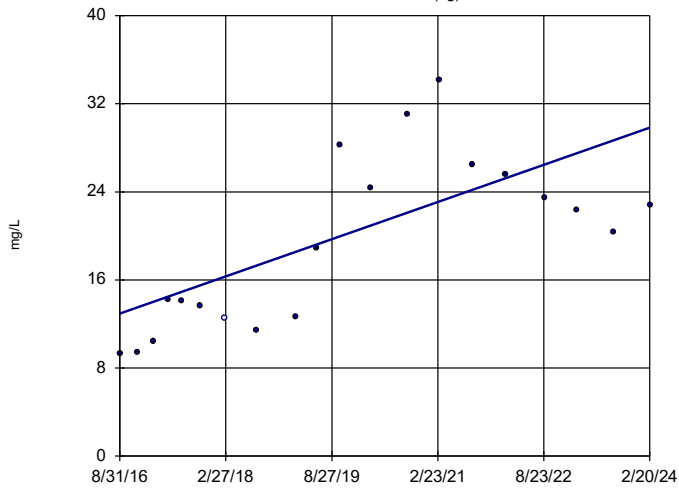


n = 23
 Slope = 0.06991
 units per year.
 Mann-Kendall
 statistic = 145
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

GWA-2 (bg)

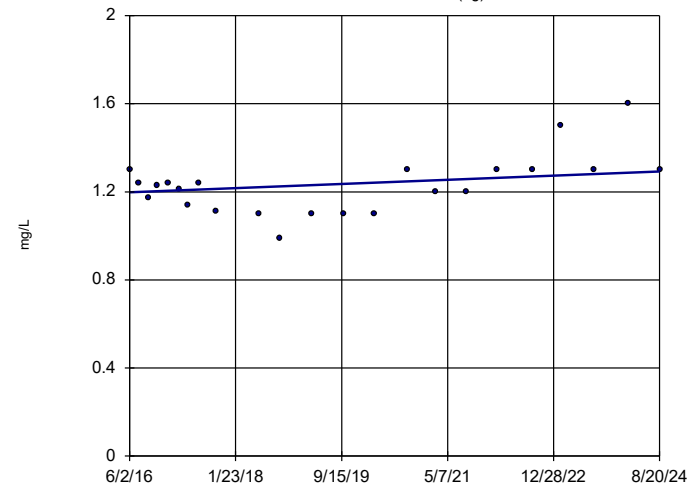


n = 20
 Slope = 2.258
 units per year.
 Mann-Kendall
 statistic = 92
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-14S (bg)

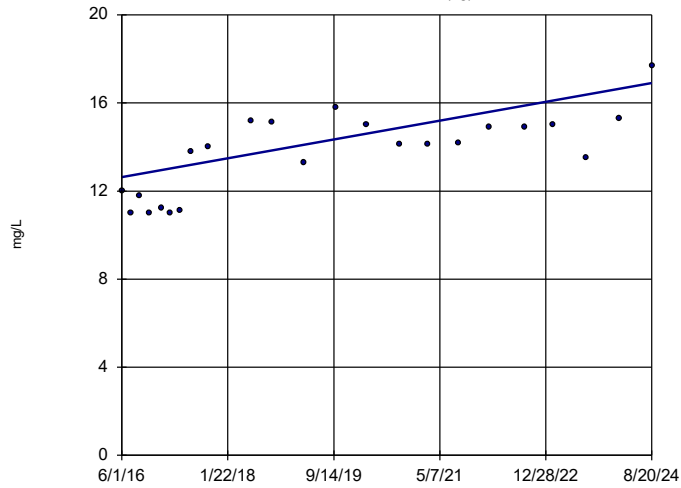


n = 23
 Slope = 0.0116
 units per year.
 Mann-Kendall
 statistic = 52
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

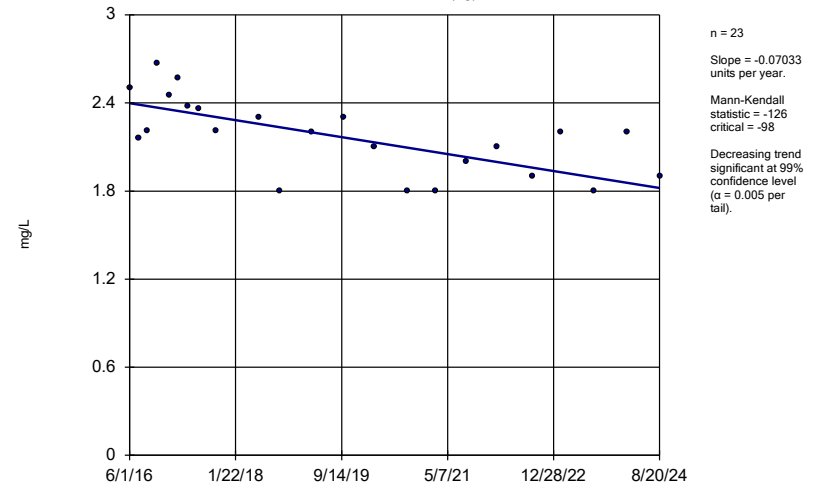
YGWA-1D (bg)



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

Sen's Slope Estimator

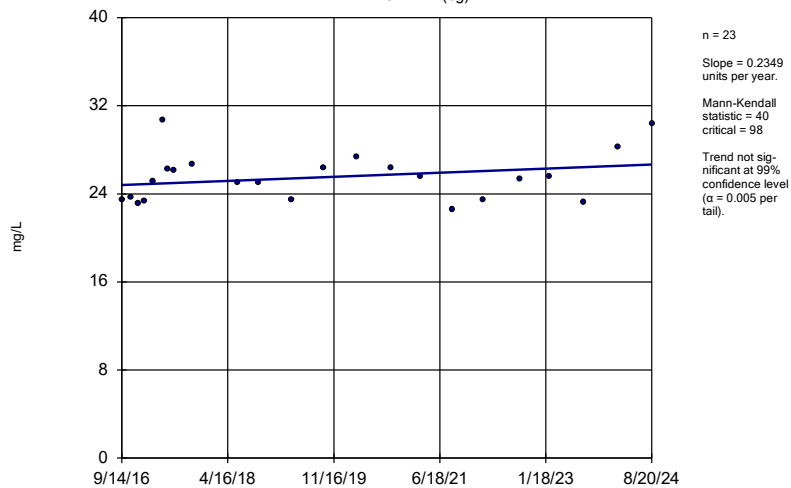
YGWA-1I (bg)



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

Sen's Slope Estimator

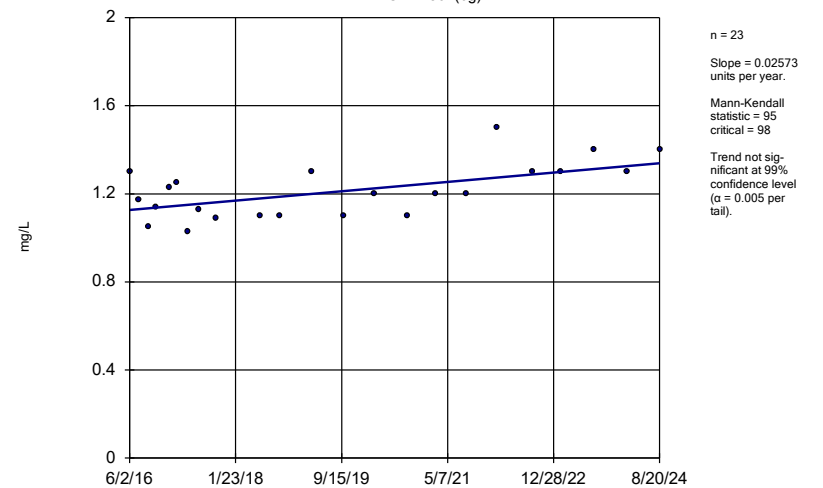
YGWA-2I (bg)



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

Sen's Slope Estimator

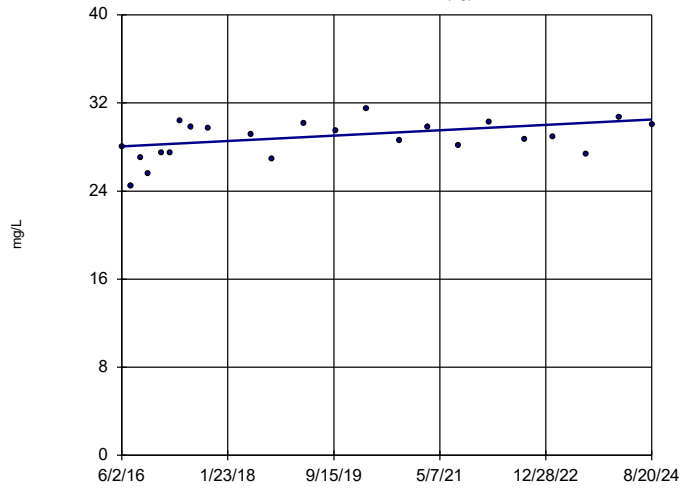
YGWA-30I (bg)



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

Sen's Slope Estimator

YGWA-3D (bg)

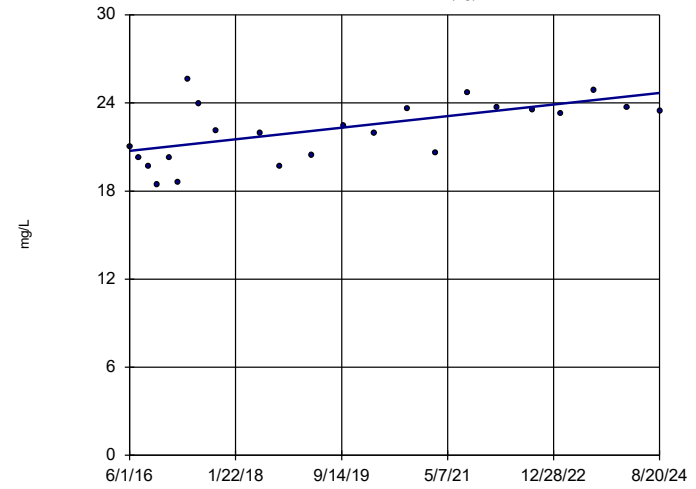


n = 23
 Slope = 0.2967
 units per year.
 Mann-Kendall
 statistic = 79
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3I (bg)

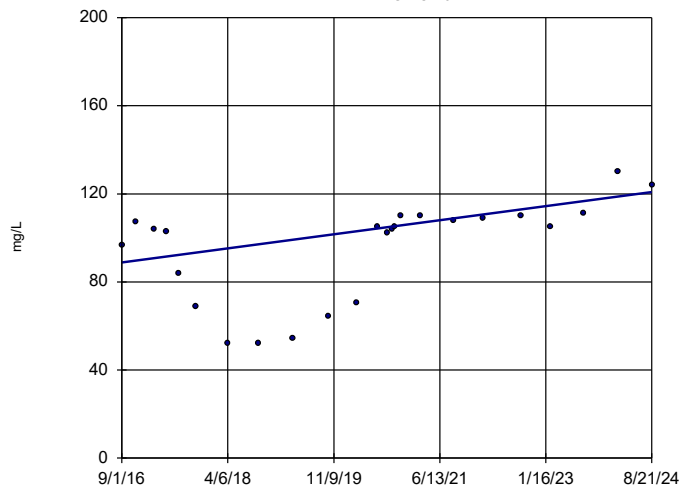


n = 23
 Slope = 0.478
 units per year.
 Mann-Kendall
 statistic = 103
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWC-46A

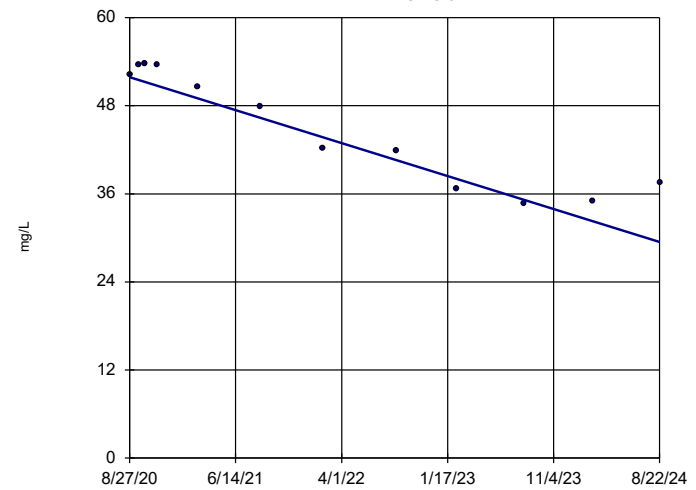


n = 24
 Slope = 4.007
 units per year.
 Mann-Kendall
 statistic = 148
 critical = 105
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWC-52

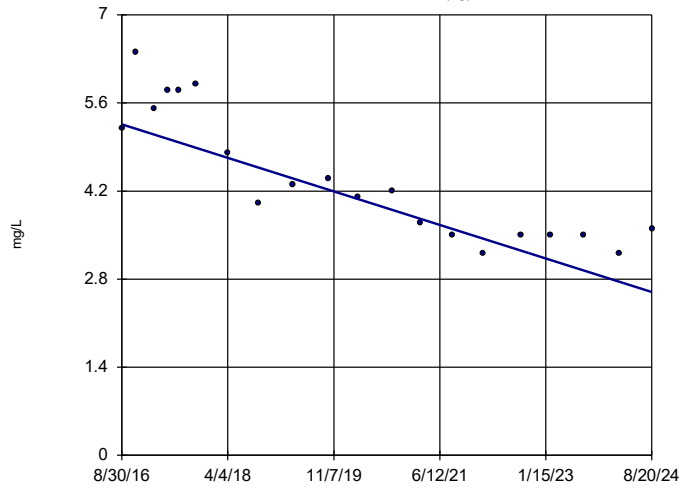


n = 12
 Slope = -5.623
 units per year.
 Mann-Kendall
 statistic = -48
 critical = -38
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-47 (bg)

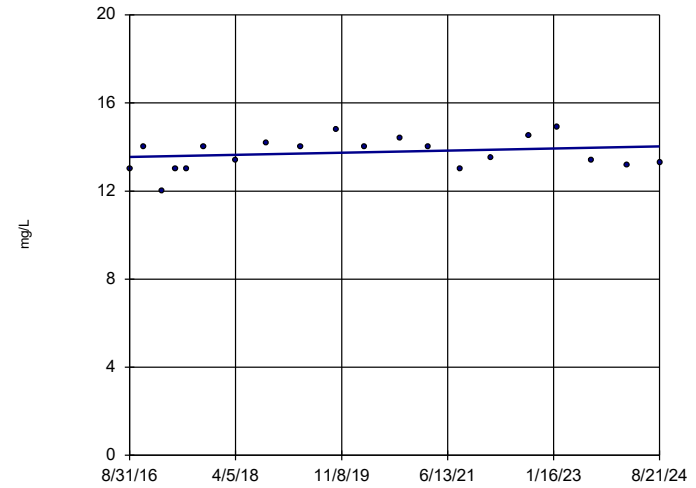


n = 20
 Slope = -0.3342
 units per year.
 Mann-Kendall
 statistic = -132
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWC-44

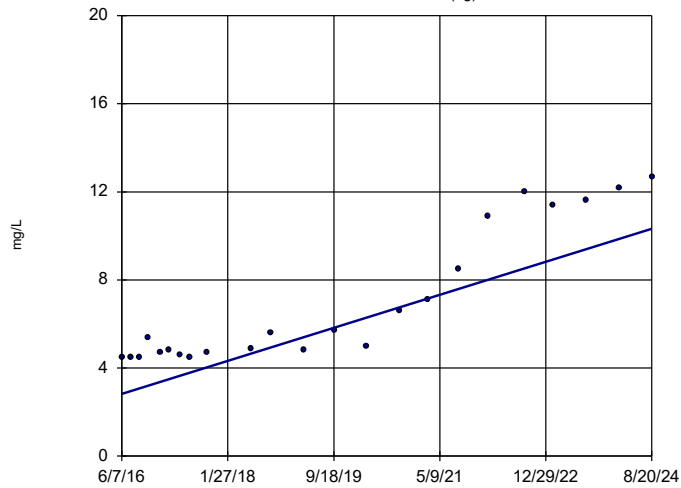


n = 20
 Slope = 0.06062
 units per year.
 Mann-Kendall
 statistic = 37
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-17S (bg)

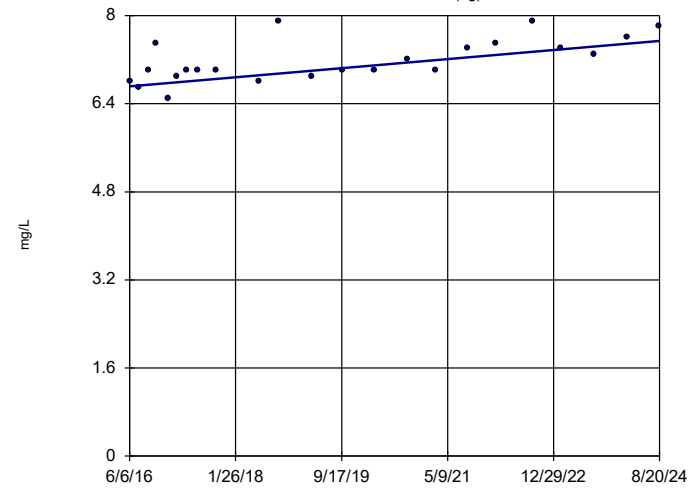


n = 23
 Slope = 0.914
 units per year.
 Mann-Kendall
 statistic = 205
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-18I (bg)

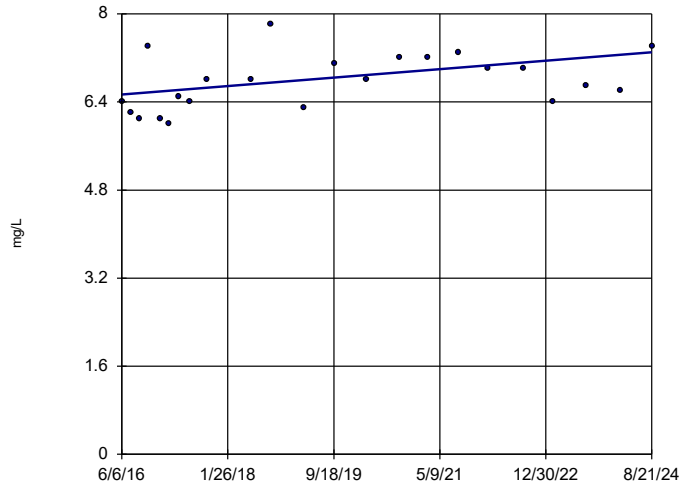


n = 23
 Slope = 0.1003
 units per year.
 Mann-Kendall
 statistic = 131
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-18S (bg)

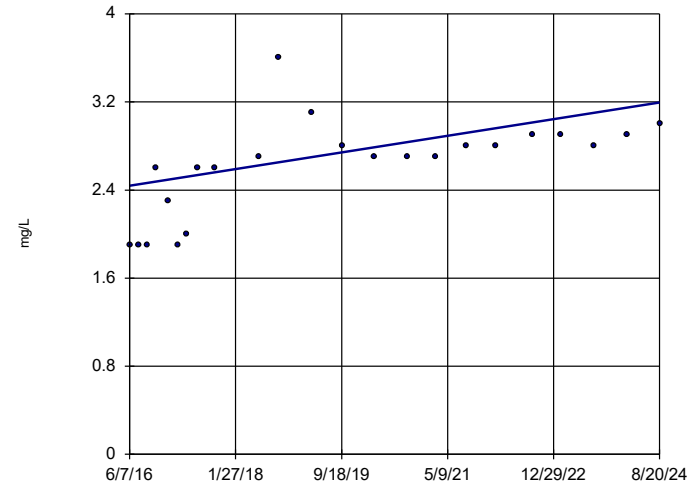


n = 23
 Slope = 0.09349
 units per year.
 Mann-Kendall
 statistic = 79
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-20S (bg)

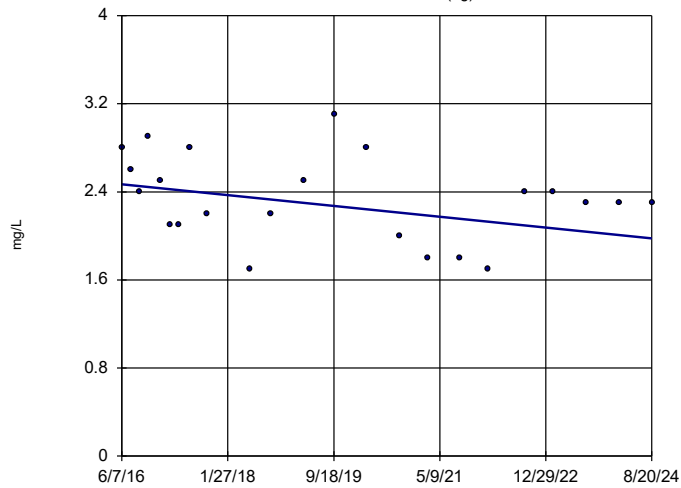


n = 23
 Slope = 0.09204
 units per year.
 Mann-Kendall
 statistic = 163
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-21I (bg)

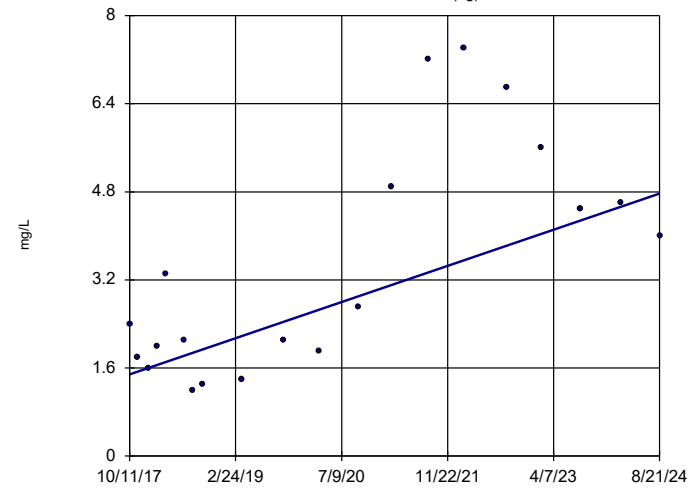


n = 23
 Slope = -0.05993
 units per year.
 Mann-Kendall
 statistic = -61
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-39 (bg)

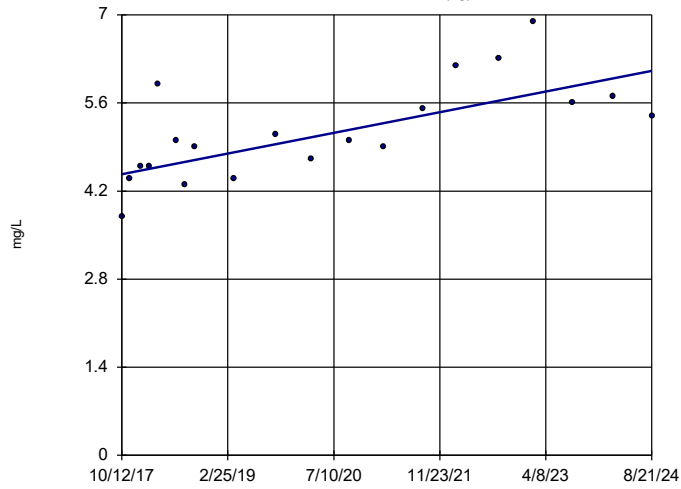


n = 20
 Slope = 0.4784
 units per year.
 Mann-Kendall
 statistic = 81
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-40 (bg)

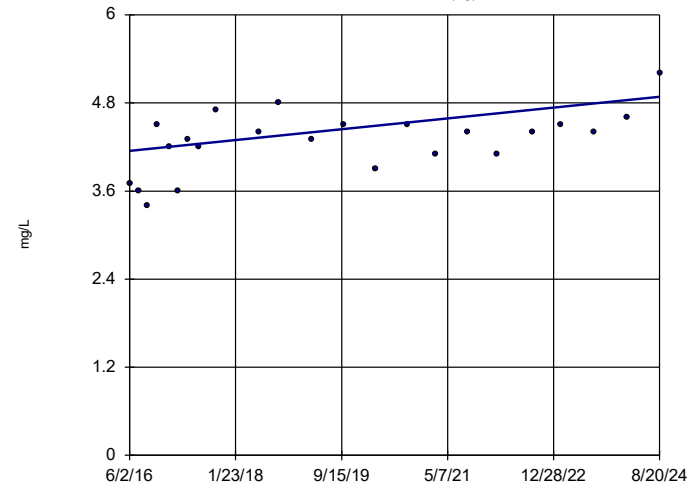


n = 20
 Slope = 0.2393
 units per year.
 Mann-Kendall
 statistic = 106
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-41 (bg)

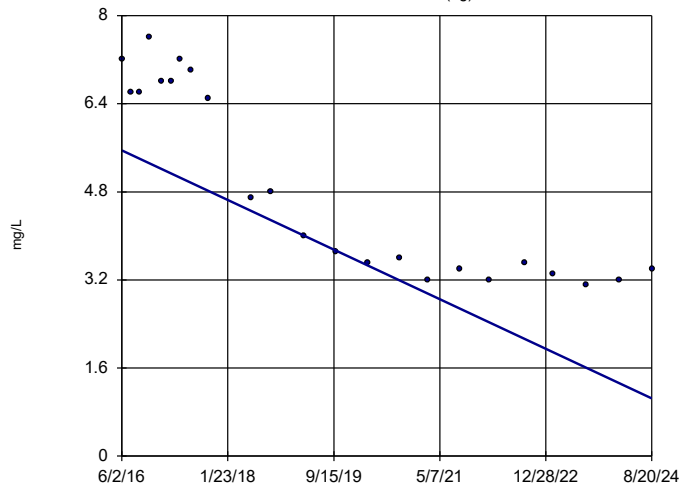


n = 23
 Slope = 0.08971
 units per year.
 Mann-Kendall
 statistic = 97
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5D (bg)

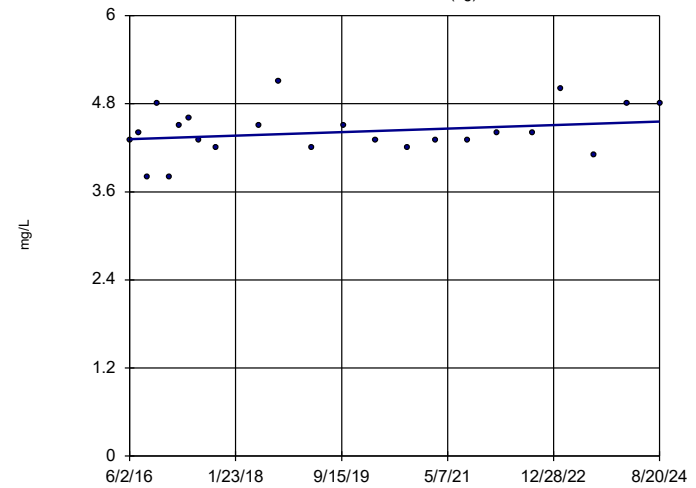


n = 23
 Slope = -0.5475
 units per year.
 Mann-Kendall
 statistic = -187
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5I (bg)

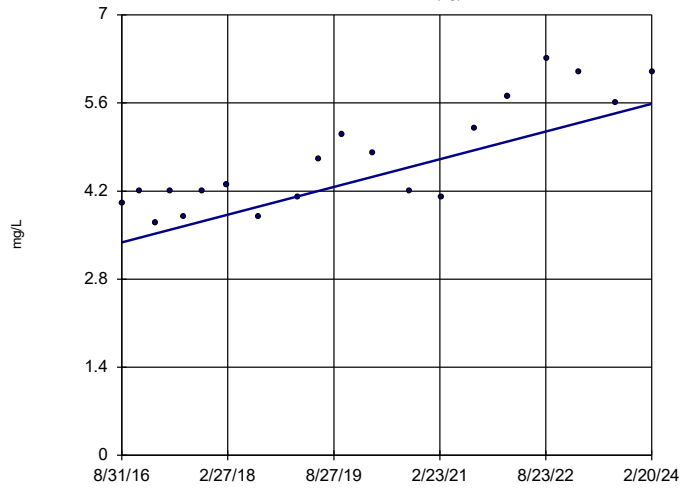


n = 23
 Slope = 0.02938
 units per year.
 Mann-Kendall
 statistic = 38
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

GWA-2 (bg)

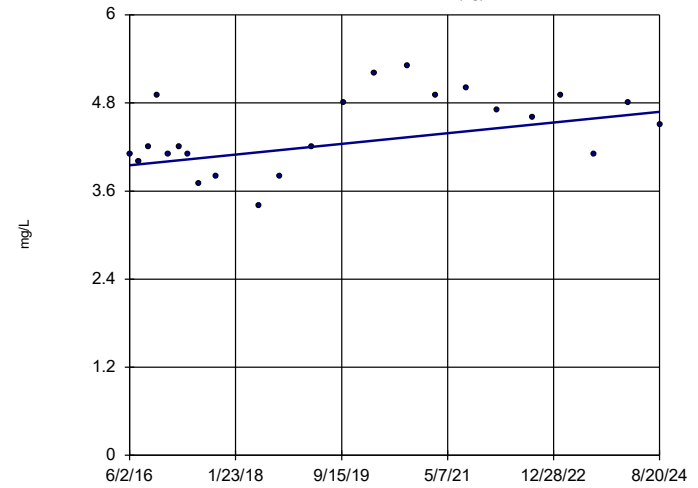


n = 20
 Slope = 0.2946
 units per year.
 Mann-Kendall
 statistic = 117
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-14S (bg)

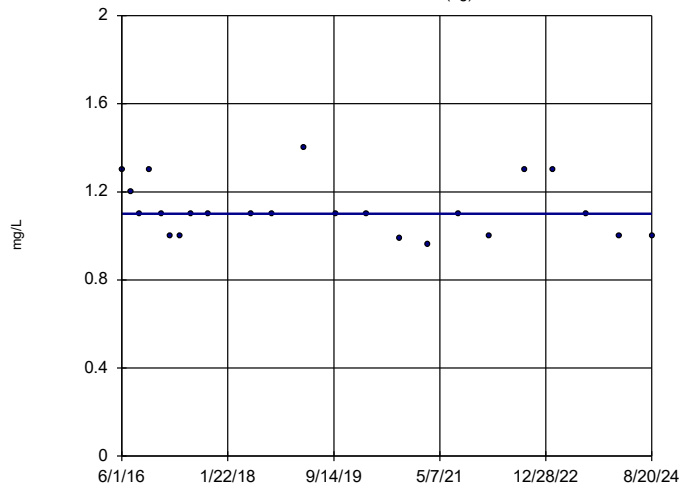


n = 23
 Slope = 0.08864
 units per year.
 Mann-Kendall
 statistic = 65
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-1D (bg)

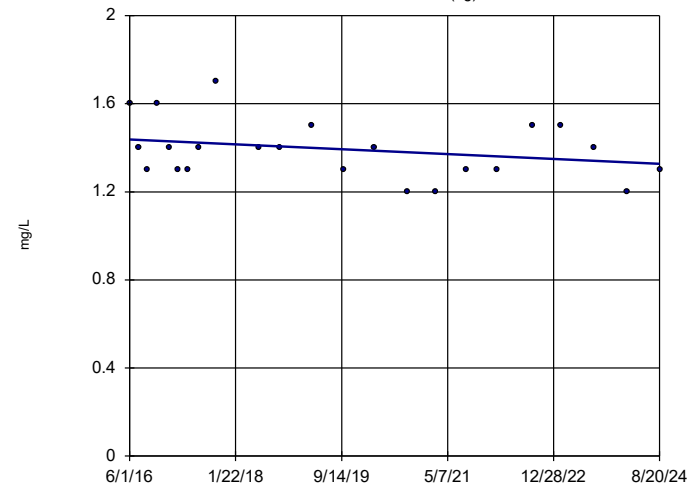


n = 23
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -52
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-11 (bg)

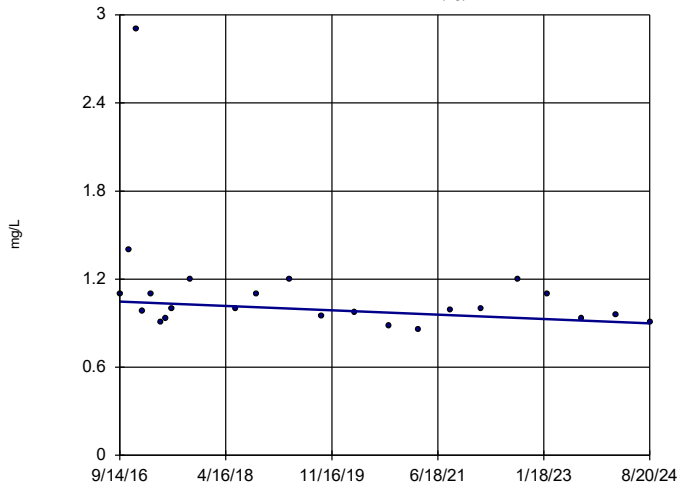


n = 23
 Slope = -0.01344
 units per year.
 Mann-Kendall
 statistic = -54
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-2I (bg)

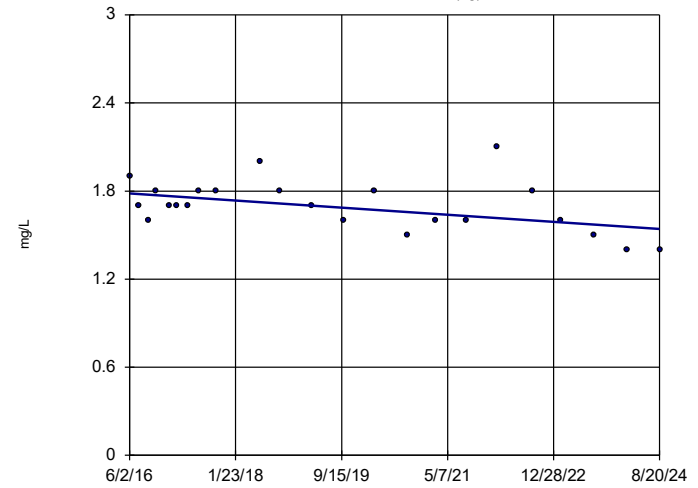


n = 23
 Slope = -0.01855
 units per year.
 Mann-Kendall
 statistic = -67
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-30I (bg)

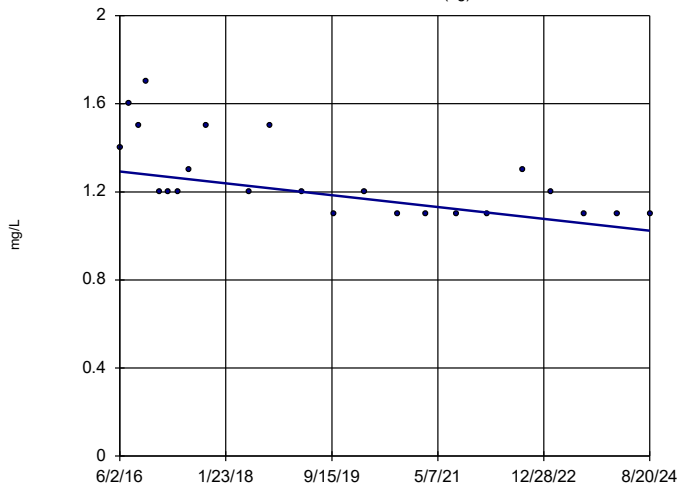


n = 23
 Slope = -0.02934
 units per year.
 Mann-Kendall
 statistic = -82
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3D (bg)

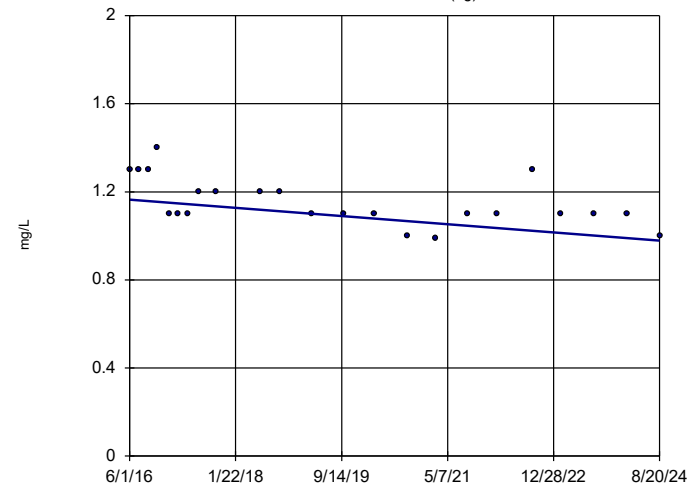


n = 23
 Slope = -0.0326
 units per year.
 Mann-Kendall
 statistic = -128
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3I (bg)

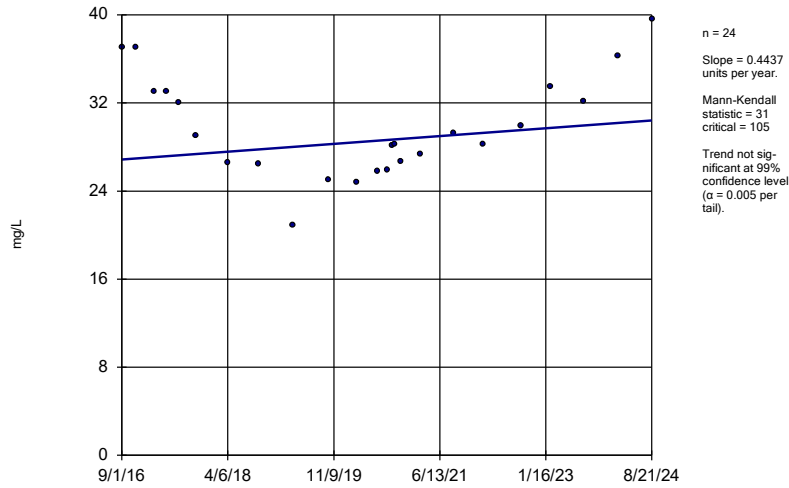


n = 23
 Slope = -0.0226
 units per year.
 Mann-Kendall
 statistic = -105
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

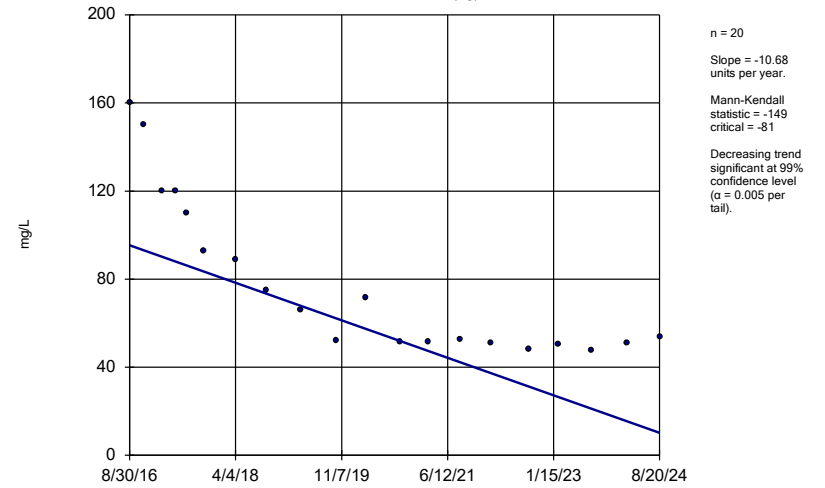
YGWC-46A



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

Sen's Slope Estimator

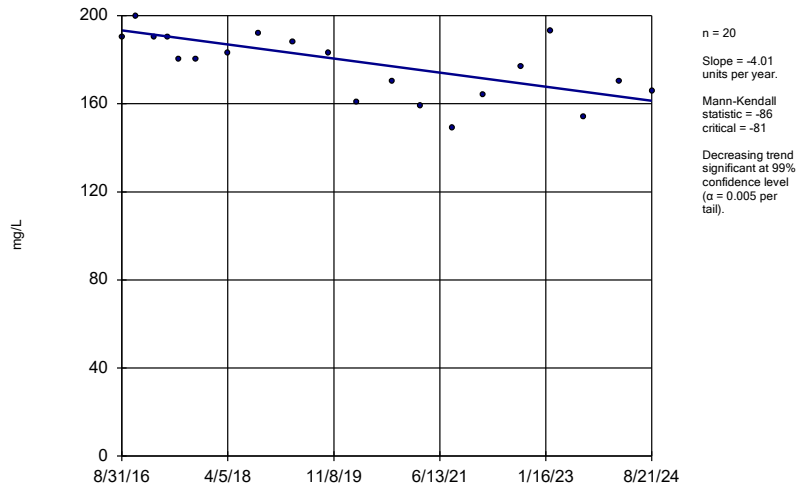
YGWA-47 (bg)



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

Sen's Slope Estimator

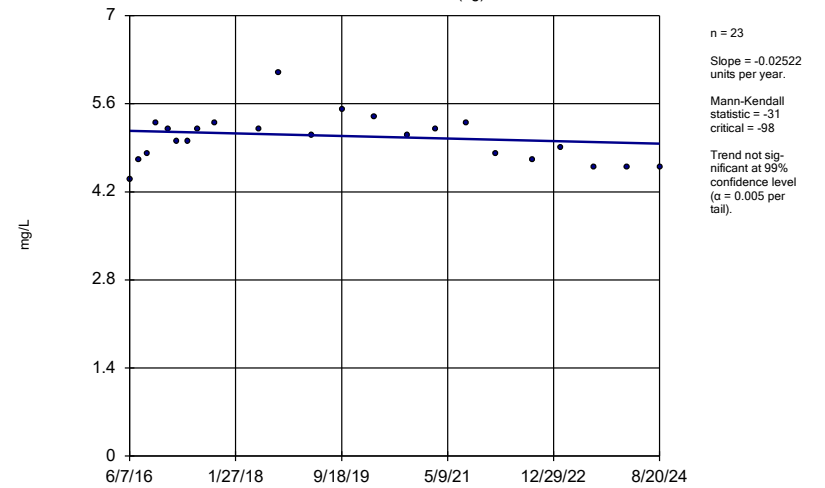
YGWC-45



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

Sen's Slope Estimator

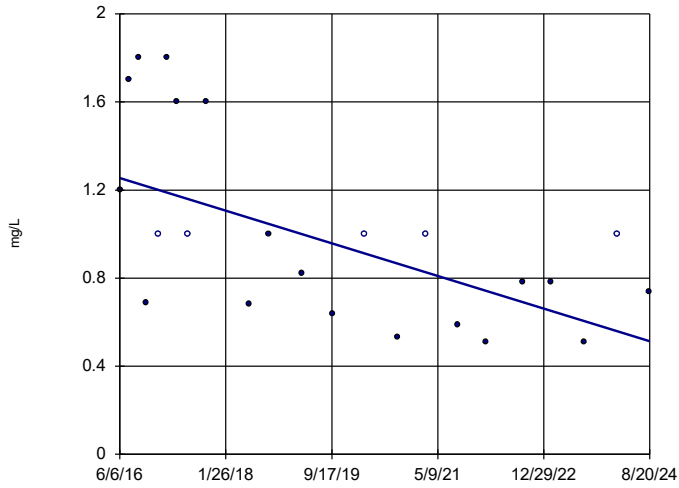
YGWA-17S (bg)



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

Sen's Slope Estimator

YGWA-18I (bg)

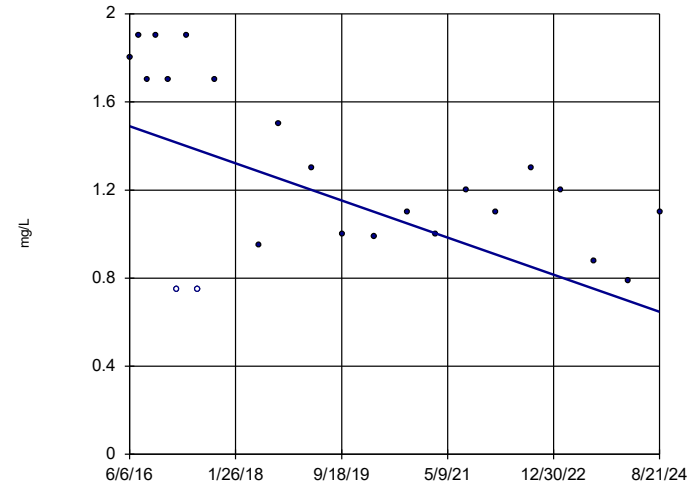


n = 23
Slope = -0.09033
units per year.
Mann-Kendall
statistic = -116
critical = -98
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-18S (bg)

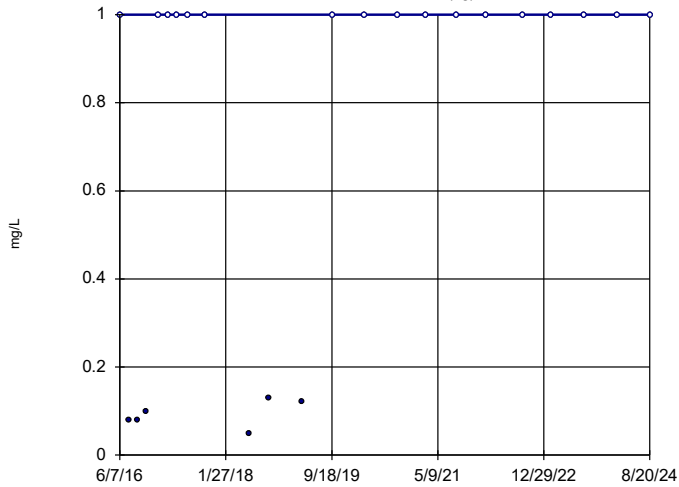


n = 23
Slope = -0.1025
units per year.
Mann-Kendall
statistic = -92
critical = -98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-20S (bg)

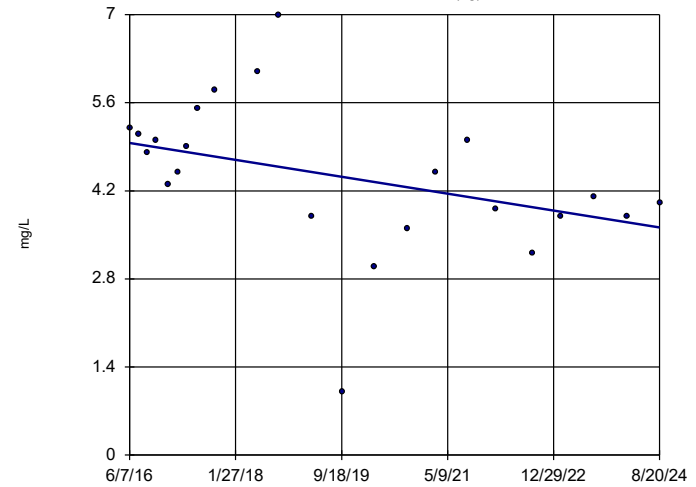


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 66
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-21I (bg)

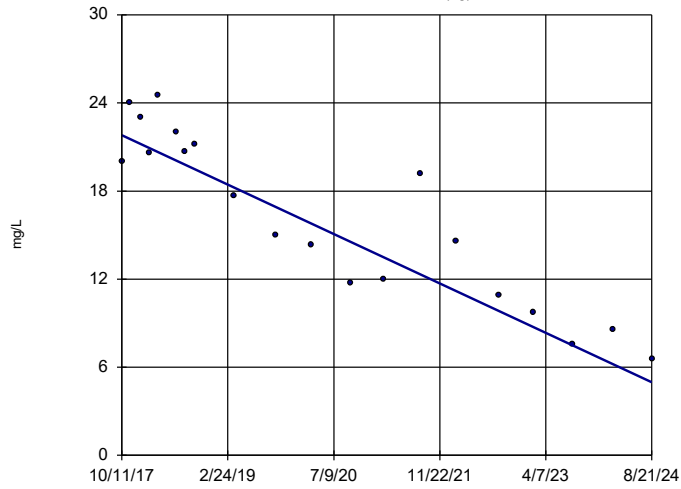


n = 23
Slope = -0.1633
units per year.
Mann-Kendall
statistic = -78
critical = -98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-39 (bg)

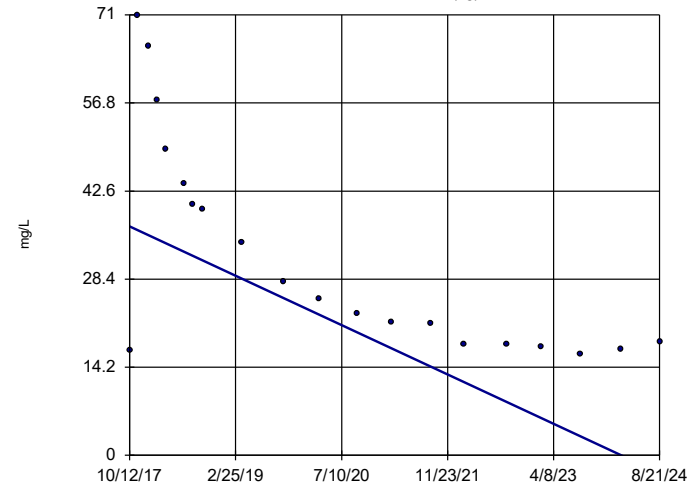


n = 20
 Slope = -2.451
 units per year.
 Mann-Kendall
 statistic = -142
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-40 (bg)

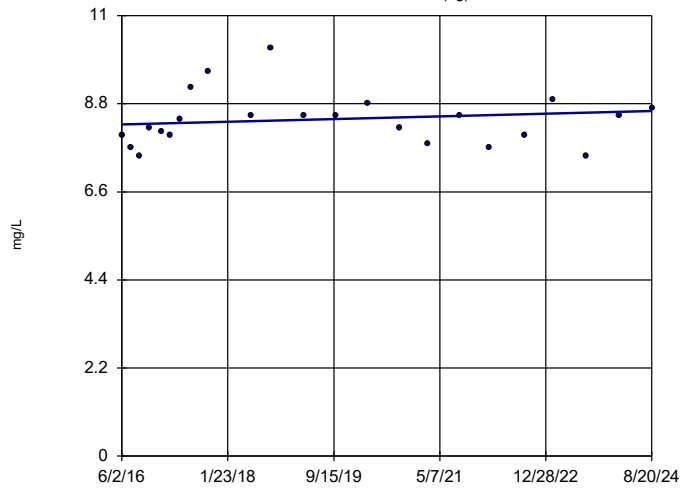


n = 20
 Slope = -5.801
 units per year.
 Mann-Kendall
 statistic = -141
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-41 (bg)

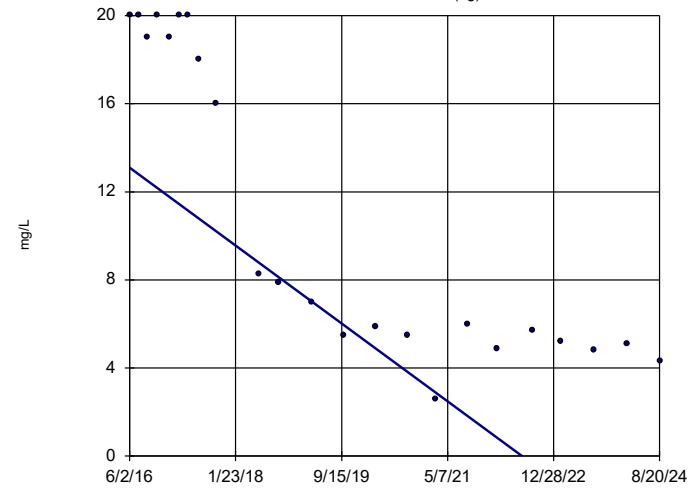


n = 23
 Slope = 0.04104
 units per year.
 Mann-Kendall
 statistic = 35
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5D (bg)

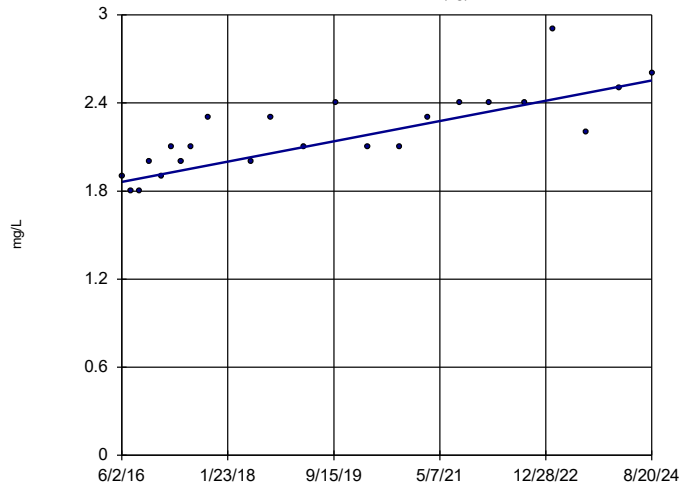


n = 23
 Slope = -2.152
 units per year.
 Mann-Kendall
 statistic = -197
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5I (bg)

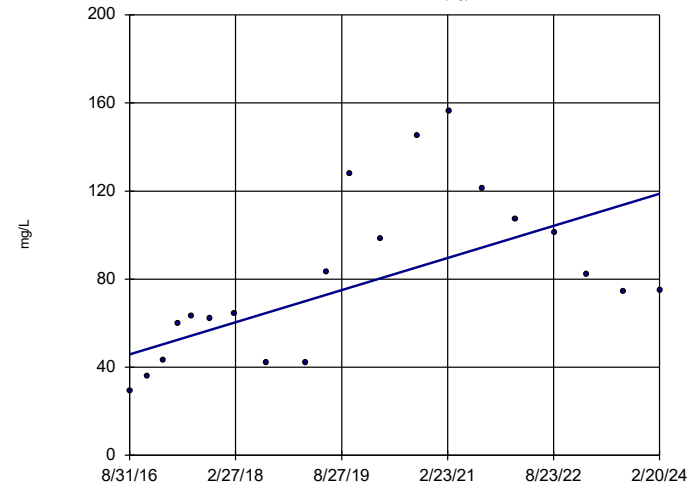


n = 23
 Slope = 0.0842
 units per year.
 Mann-Kendall
 statistic = 177
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

GWA-2 (bg)

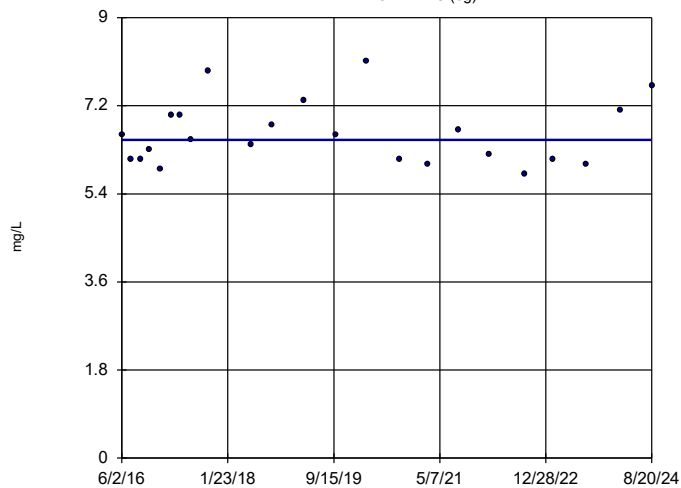


n = 20
 Slope = 9.755
 units per year.
 Mann-Kendall
 statistic = 89
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-14S (bg)

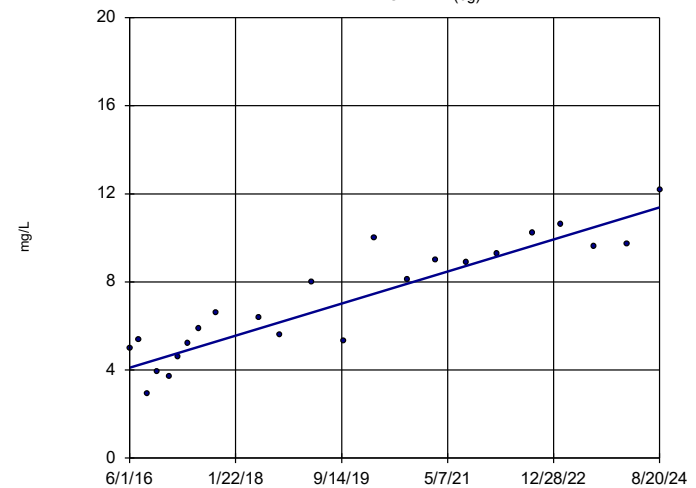


n = 23
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-1D (bg)

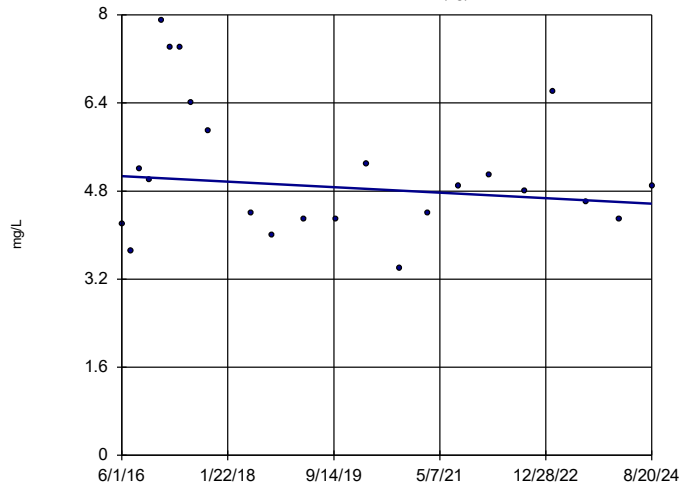


n = 23
 Slope = 0.8848
 units per year.
 Mann-Kendall
 statistic = 191
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-11 (bg)

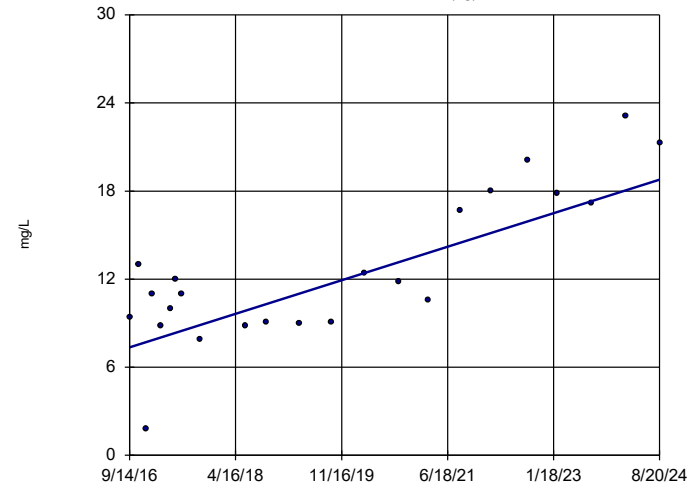


n = 23
 Slope = -0.0608
 units per year.
 Mann-Kendall
 statistic = -23
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-21 (bg)

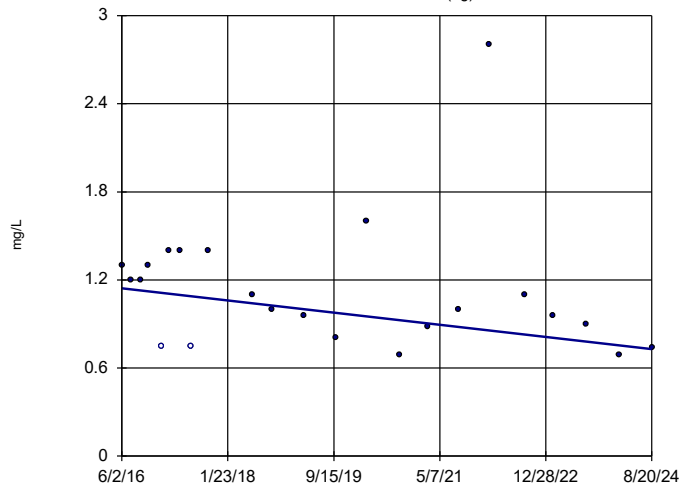


n = 23
 Slope = 1.44
 units per year.
 Mann-Kendall
 statistic = 132
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-30I (bg)

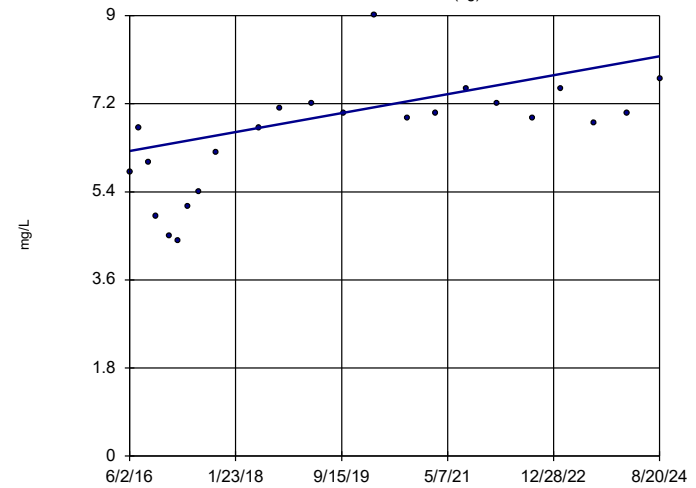


n = 23
 Slope = -0.05021
 units per year.
 Mann-Kendall
 statistic = -71
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3D (bg)

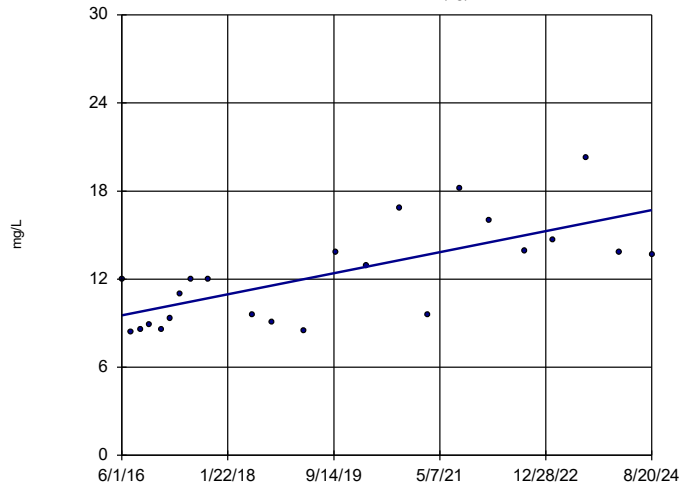


n = 23
 Slope = 0.2355
 units per year.
 Mann-Kendall
 statistic = 132
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-3I (bg)

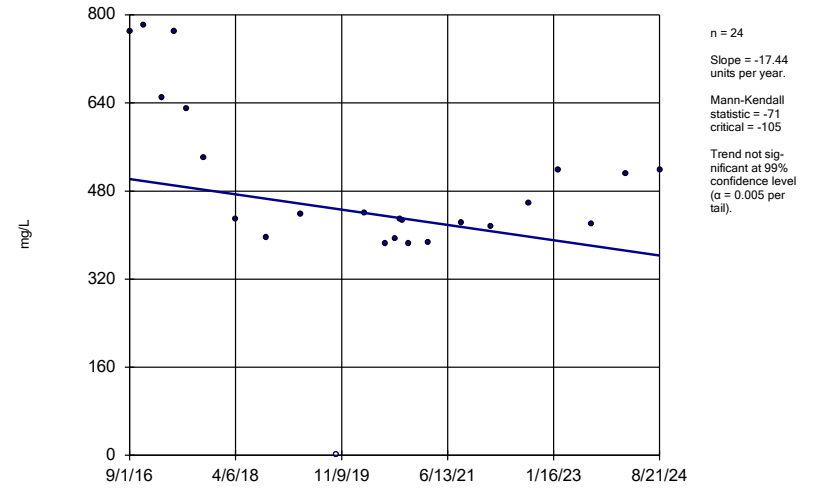


Constituent: Sulfate as SO4 Analysis Run 10/24/2024 3:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Hollow symbols indicate censored values.

Sen's Slope Estimator

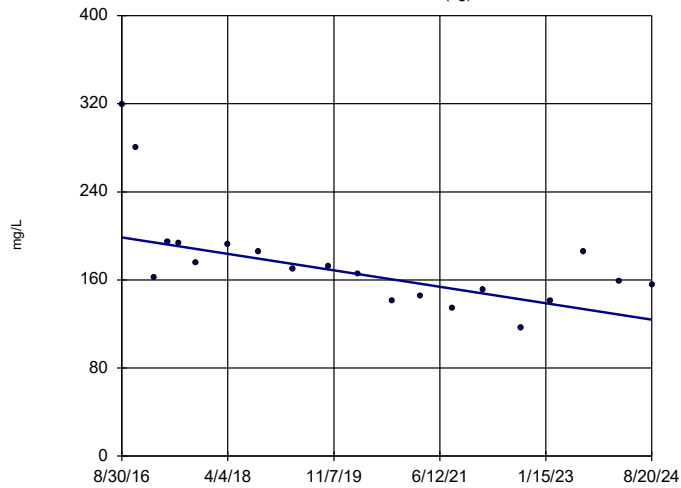
YGWC-46A



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

Sen's Slope Estimator

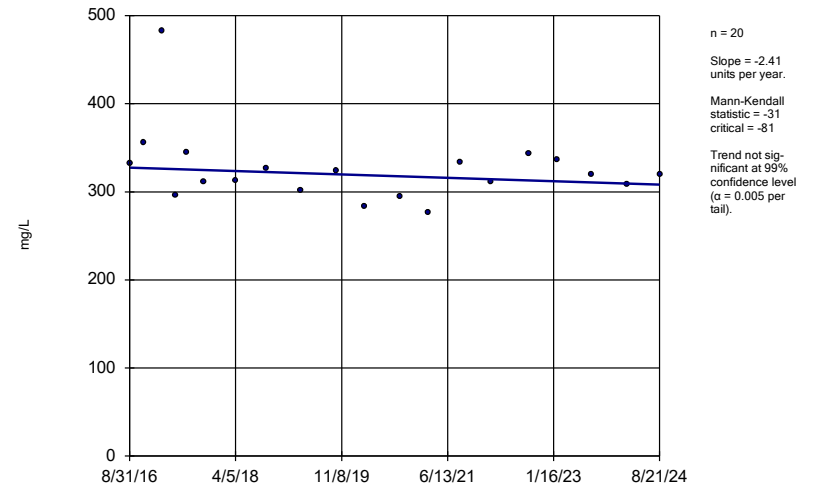
YGWA-47 (bg)



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

Sen's Slope Estimator

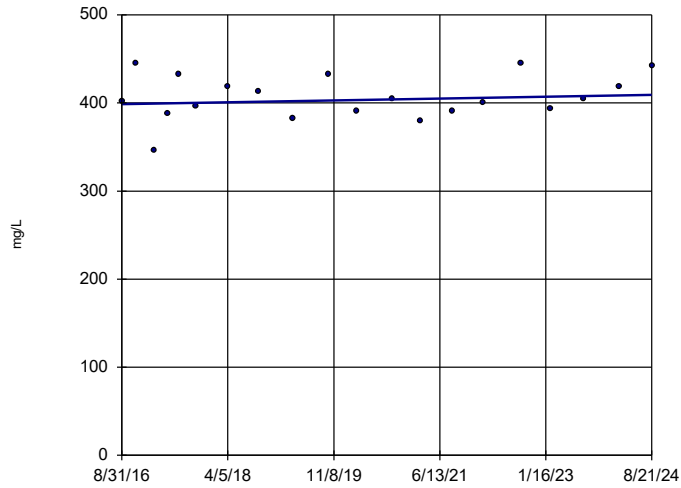
YGWC-44



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

Sen's Slope Estimator

YGWC-45

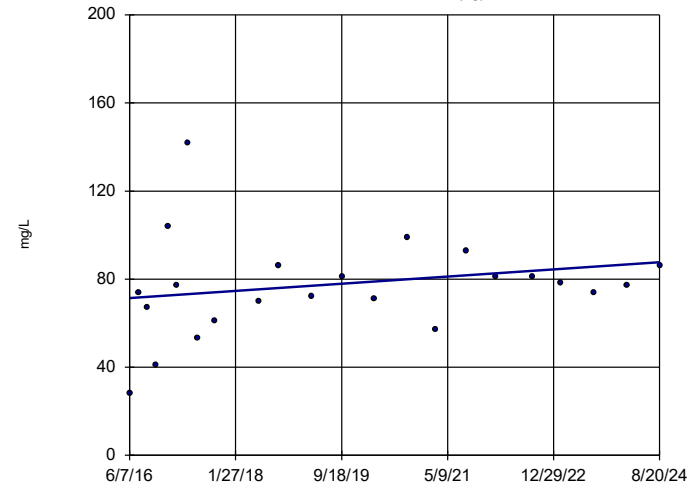


n = 20
 Slope = 1.317
 units per year.
 Mann-Kendall
 statistic = 22
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-17S (bg)

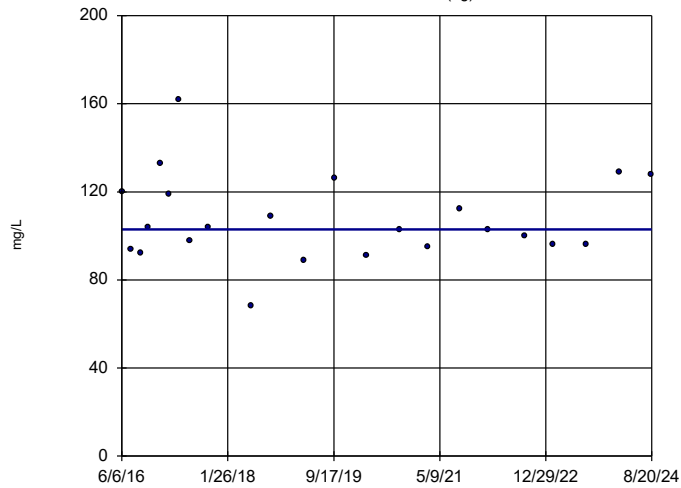


n = 23
 Slope = 1.977
 units per year.
 Mann-Kendall
 statistic = 61
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-18I (bg)

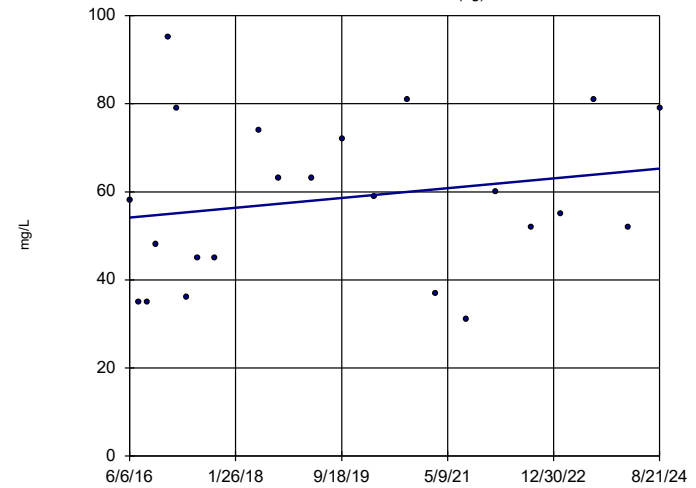


n = 23
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-18S (bg)

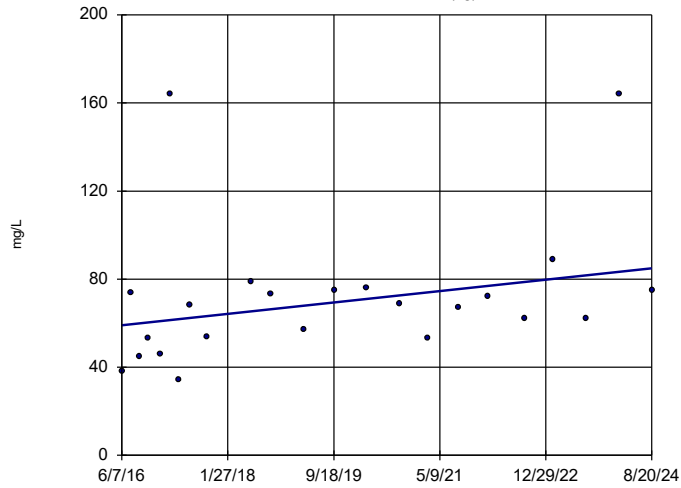


n = 23
 Slope = 1.351
 units per year.
 Mann-Kendall
 statistic = 37
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-20S (bg)

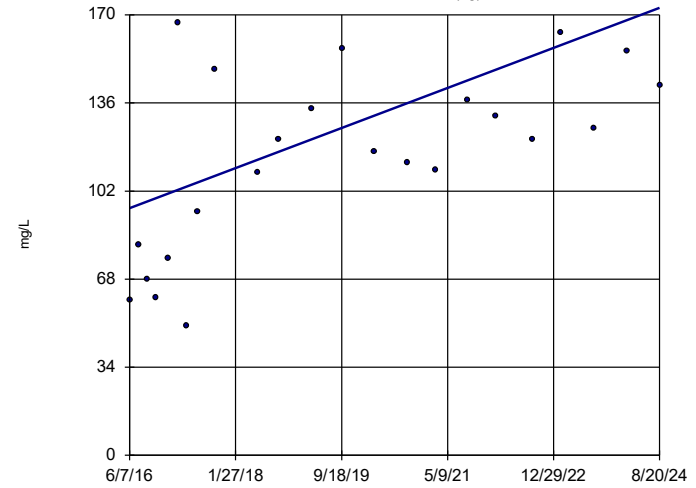


n = 23
 Slope = 3.147
 units per year.
 Mann-Kendall
 statistic = 79
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-21I (bg)

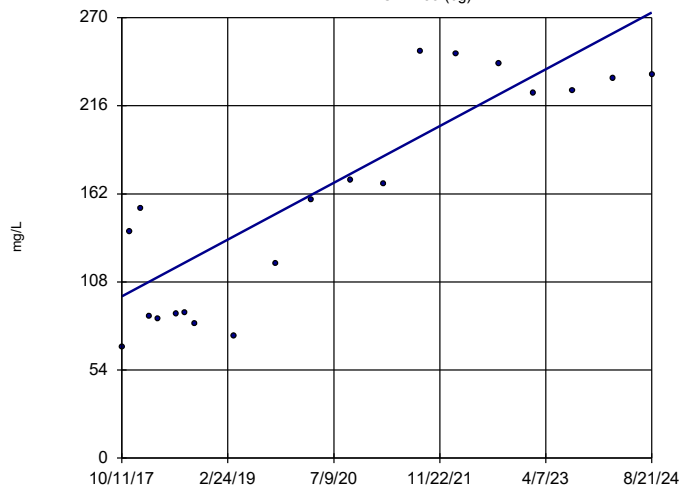


n = 23
 Slope = 9.422
 units per year.
 Mann-Kendall
 statistic = 118
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-39 (bg)

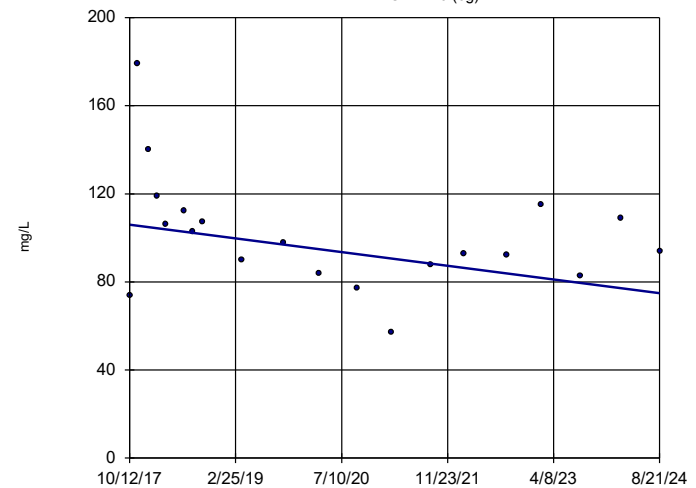


n = 20
 Slope = 25.35
 units per year.
 Mann-Kendall
 statistic = 110
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-40 (bg)

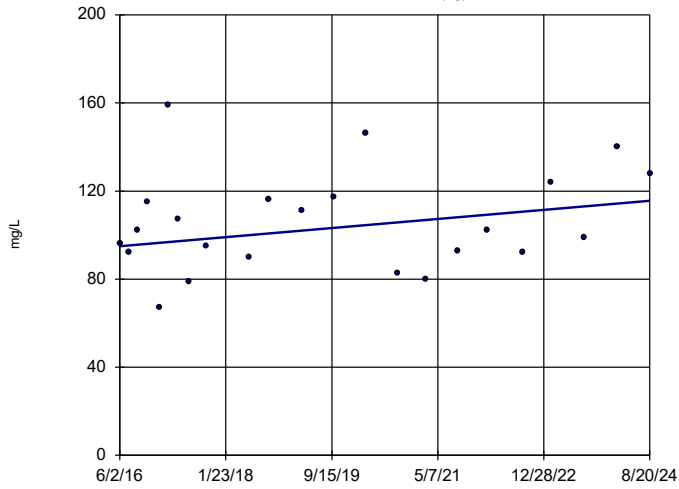


n = 20
 Slope = -4.535
 units per year.
 Mann-Kendall
 statistic = -52
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-4I (bg)

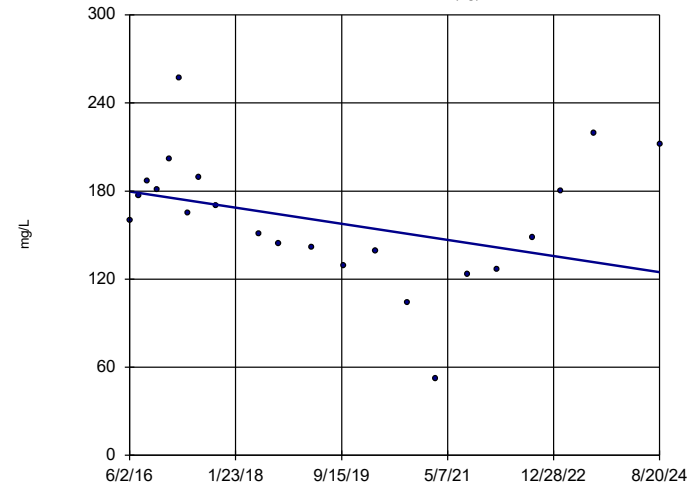


n = 23
 Slope = 2.511
 units per year.
 Mann-Kendall
 statistic = 47
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5D (bg)

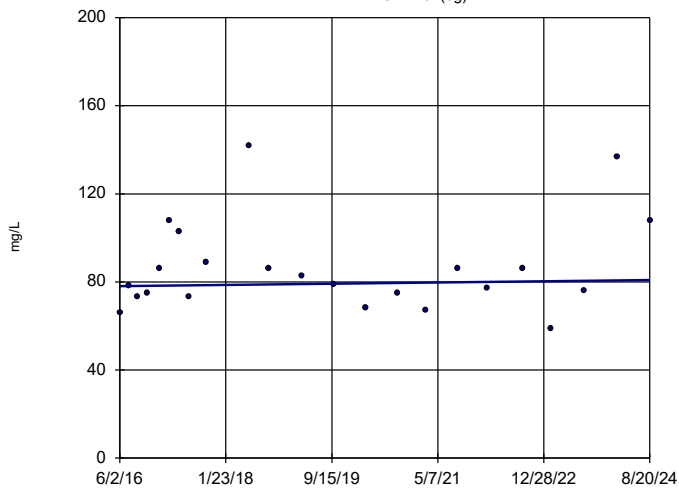


n = 22
 Slope = -6.667
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-5I (bg)

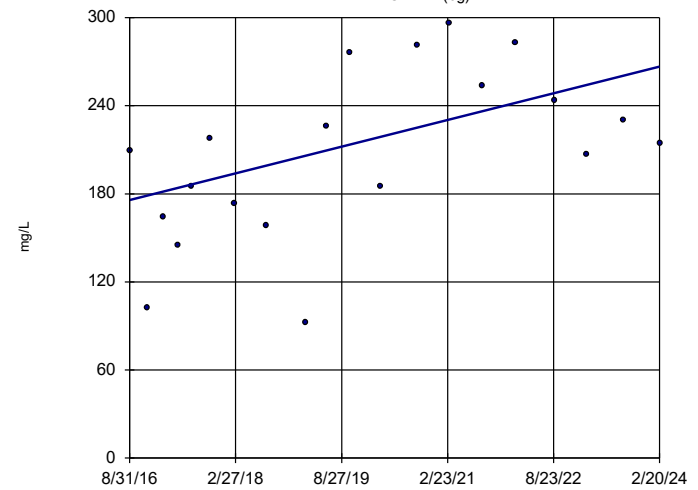


n = 23
 Slope = 0.3453
 units per year.
 Mann-Kendall
 statistic = 16
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

GWA-2 (bg)

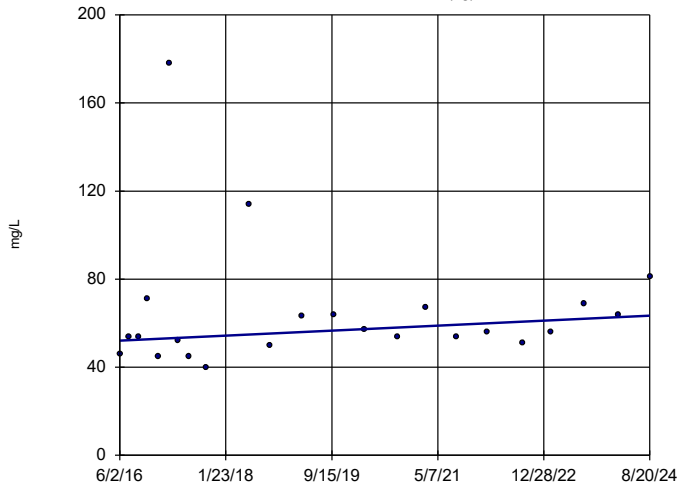


n = 20
 Slope = 12.15
 units per year.
 Mann-Kendall
 statistic = 73
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-14S (bg)

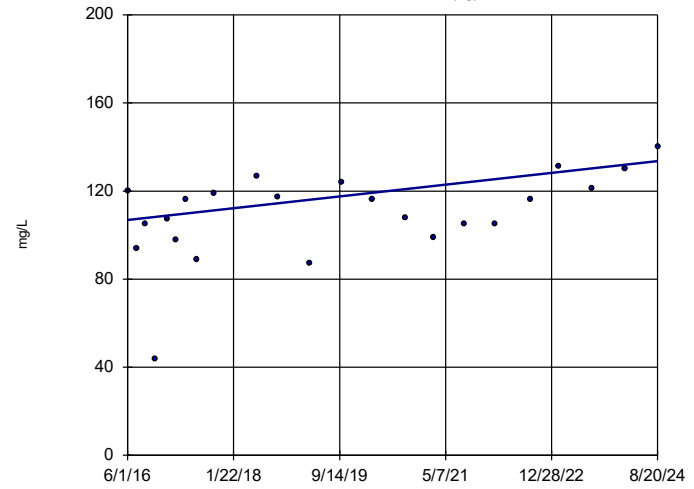


n = 23
 Slope = 1.387
 units per year.
 Mann-Kendall
 statistic = 58
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-1D (bg)

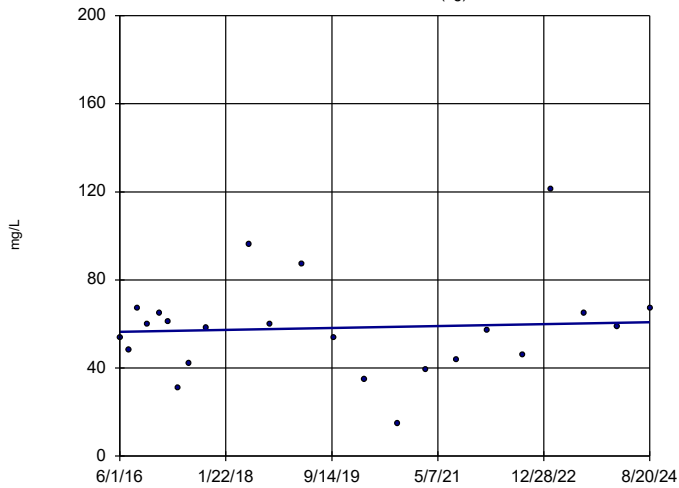


n = 23
 Slope = 3.259
 units per year.
 Mann-Kendall
 statistic = 87
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-11 (bg)

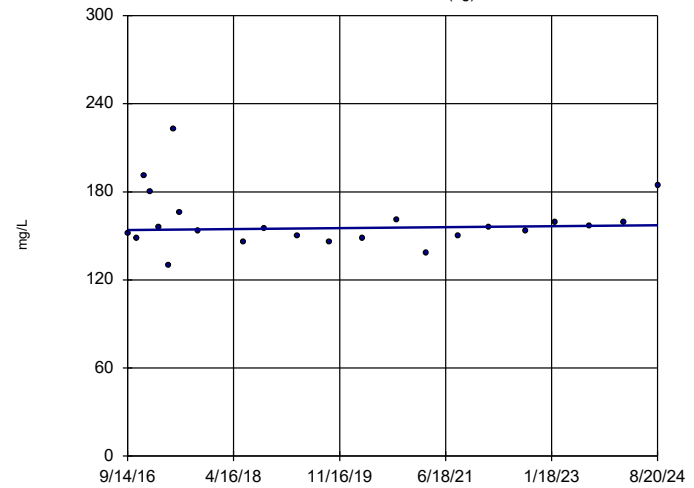


n = 23
 Slope = 0.5267
 units per year.
 Mann-Kendall
 statistic = 11
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-2I (bg)

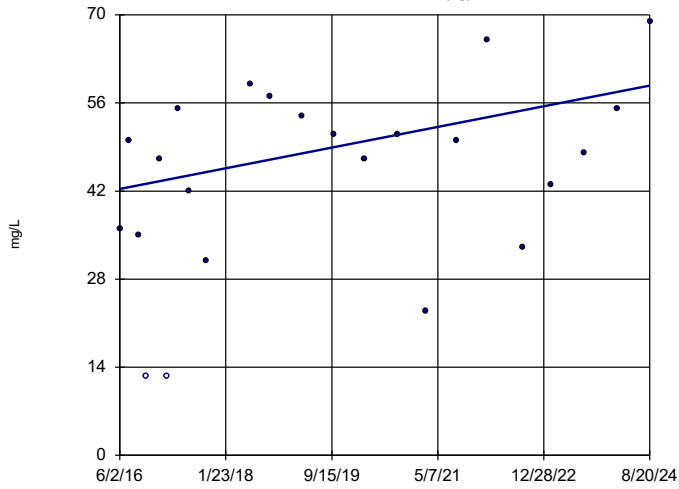


n = 23
 Slope = 0.4303
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

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

Sen's Slope Estimator

YGWA-30I (bg)

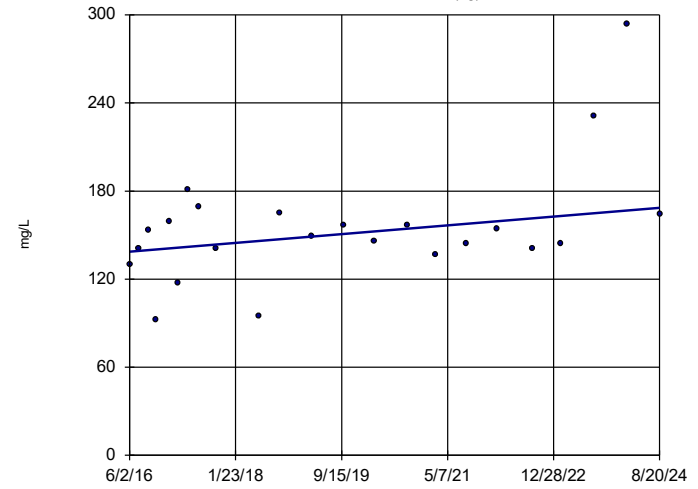


n = 23
Slope = 1.995
units per year.
Mann-Kendall
statistic = 62
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-3D (bg)

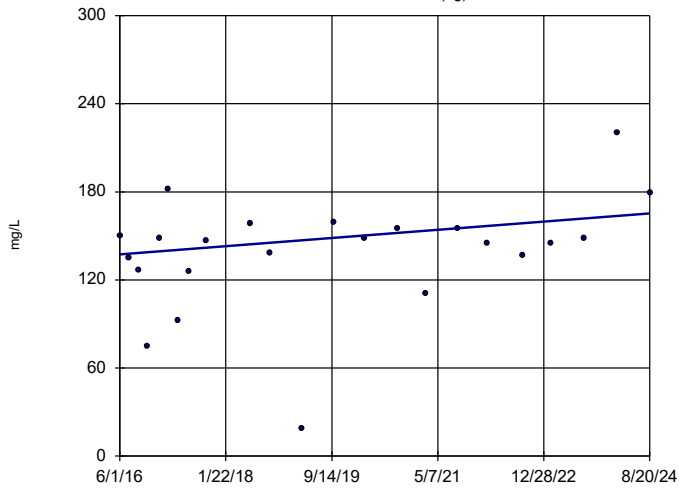


n = 23
Slope = 3.614
units per year.
Mann-Kendall
statistic = 60
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWA-3I (bg)

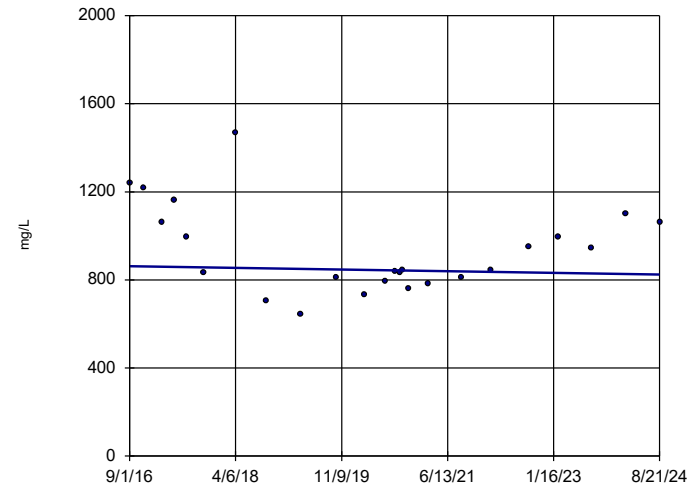


n = 23
Slope = 3.381
units per year.
Mann-Kendall
statistic = 54
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

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

Sen's Slope Estimator

YGWC-46A



n = 24
Slope = -4.791
units per year.
Mann-Kendall
statistic = -7
critical = -105
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ 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

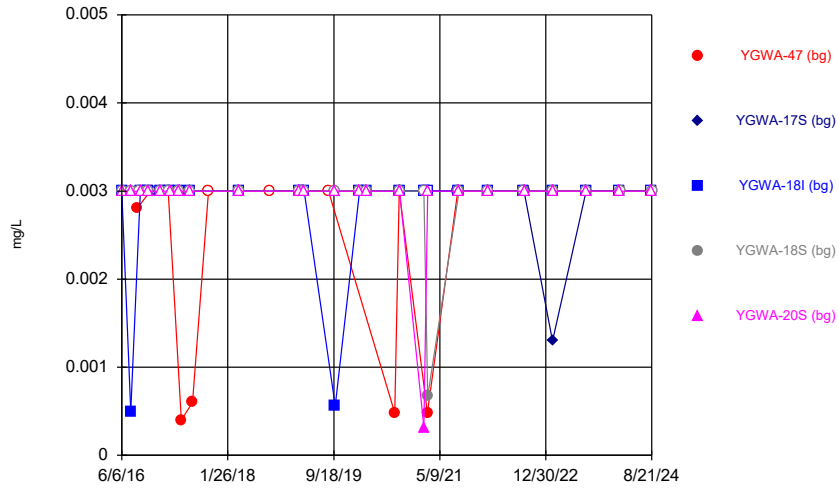
FIGURE G.

Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/24/2024, 3:29 PM

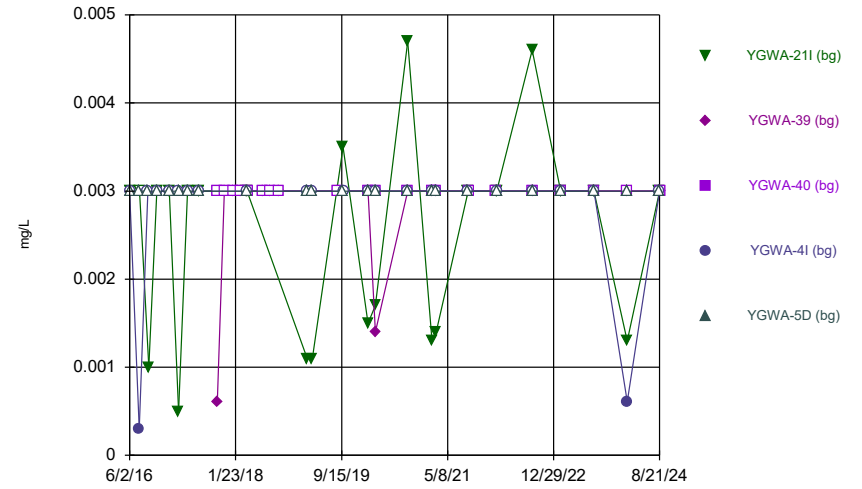
| <u>Constituent</u> | <u>Upper Lim.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------------|
| Antimony (mg/L) | 0.0047 | 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) |

Time Series



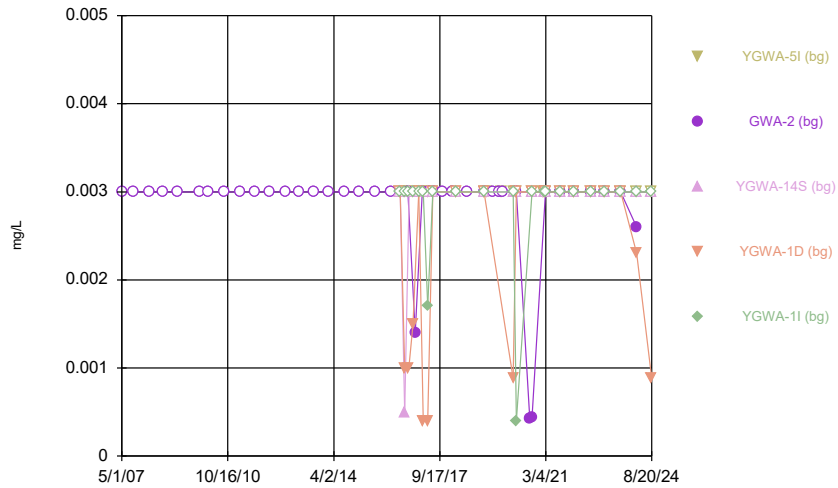
Constituent: Antimony Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



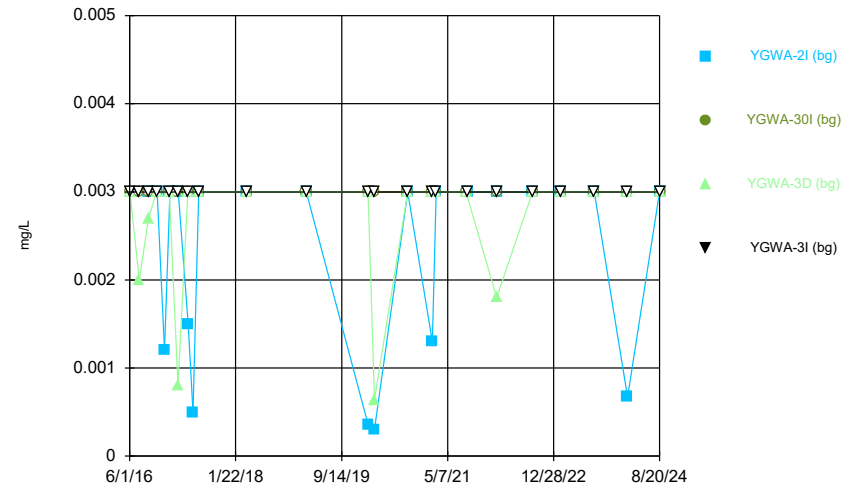
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



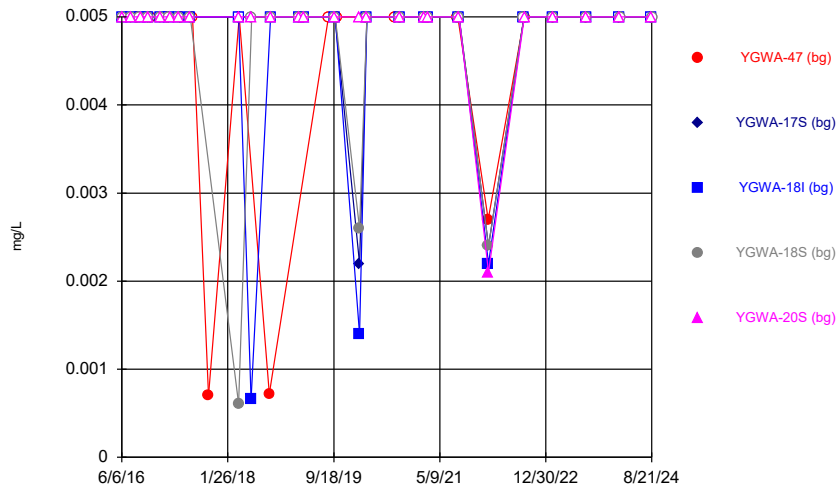
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



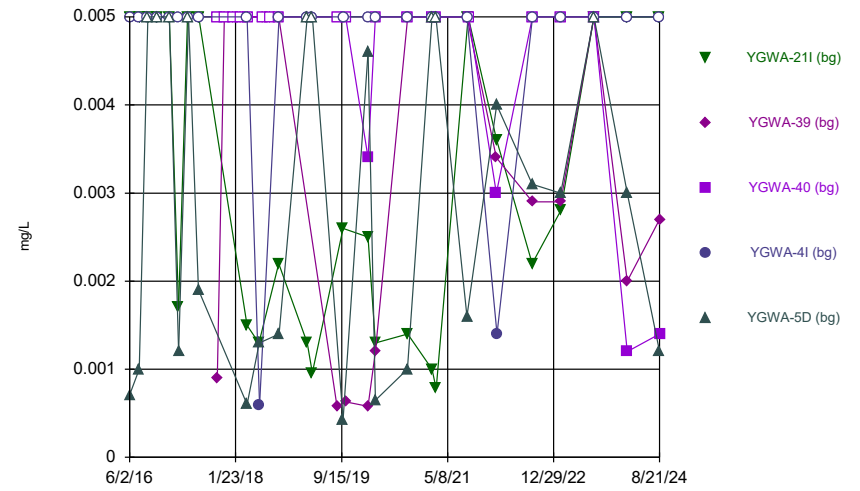
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



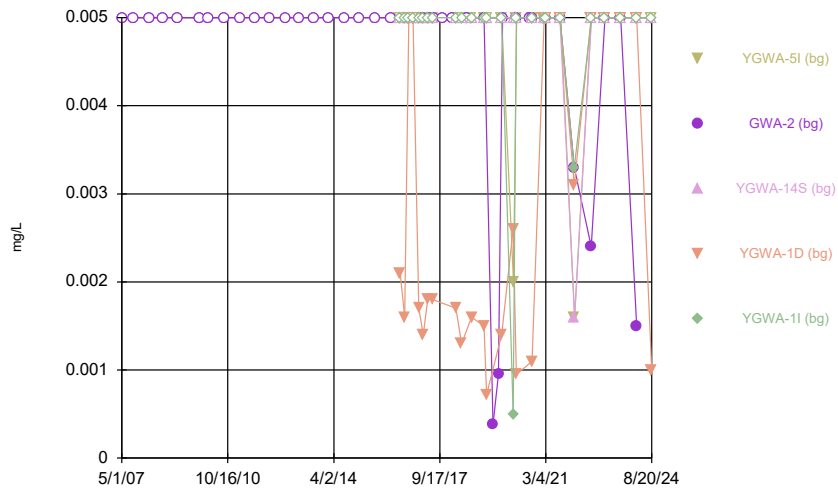
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



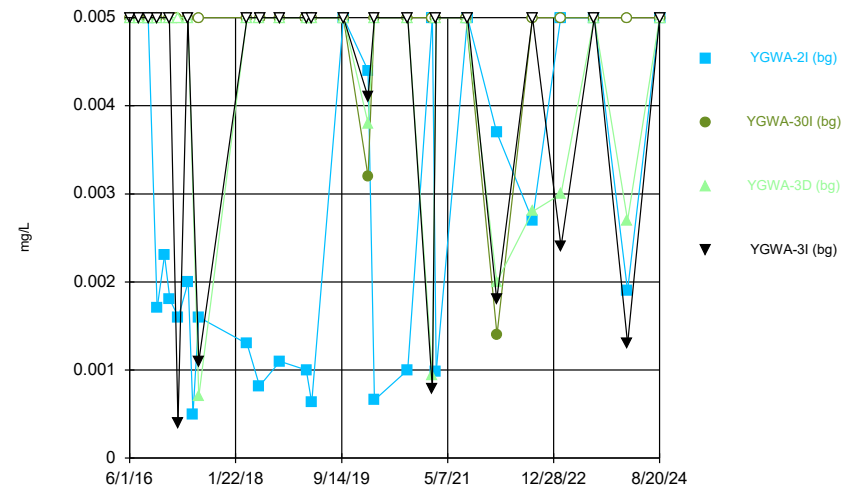
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



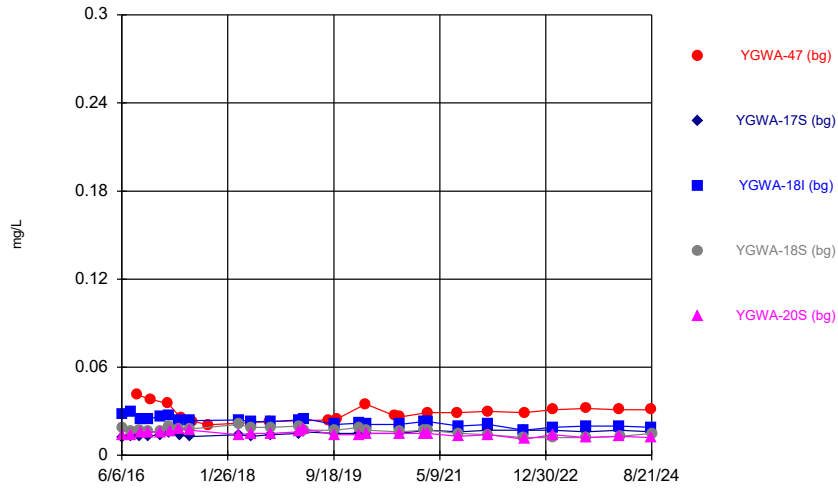
Constituent: Arsenic Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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

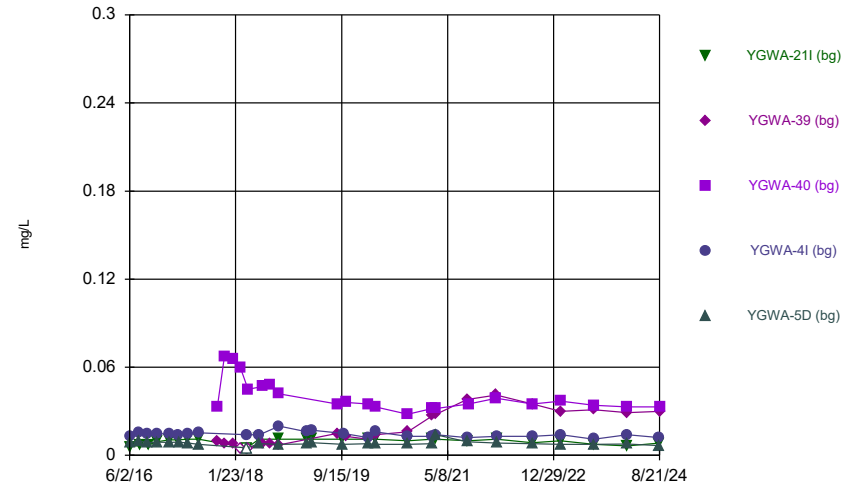
Time Series



Constituent: Barium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Hollow symbols indicate censored values.

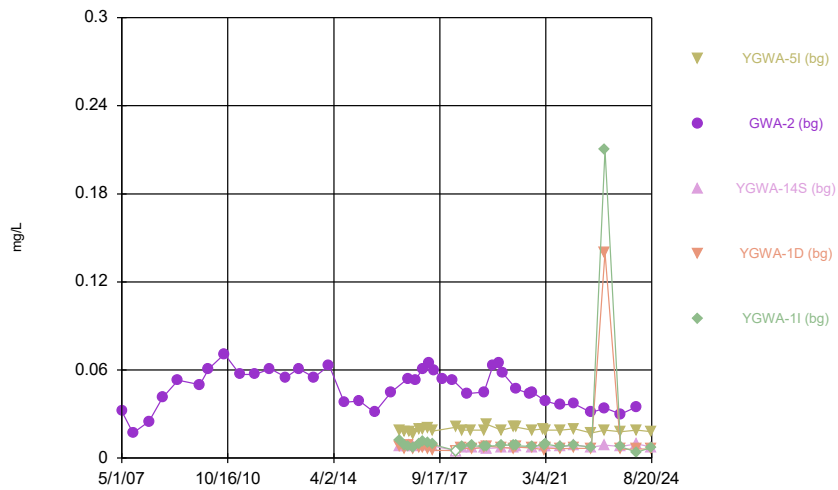
Time Series



Constituent: Barium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Hollow symbols indicate censored values.

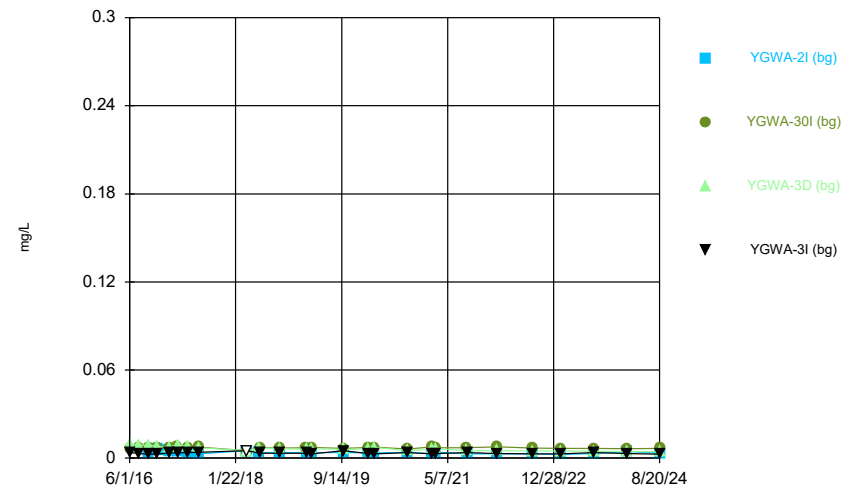
Time Series



Constituent: Barium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

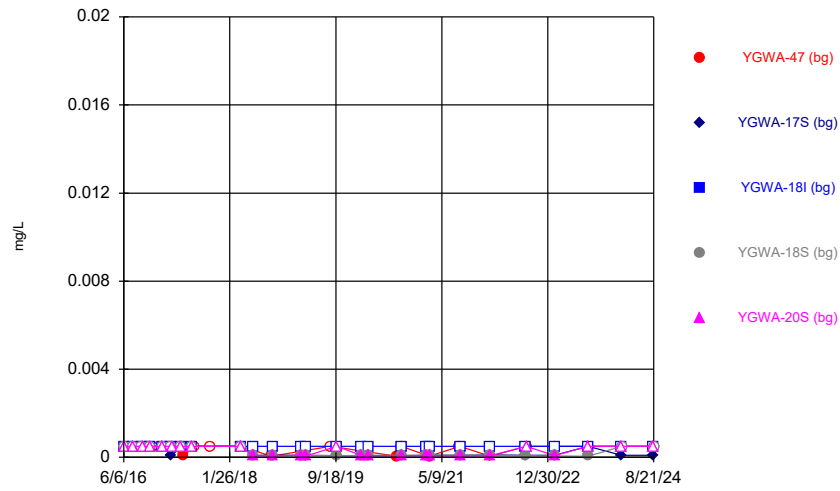
Hollow symbols indicate censored values.

Time Series



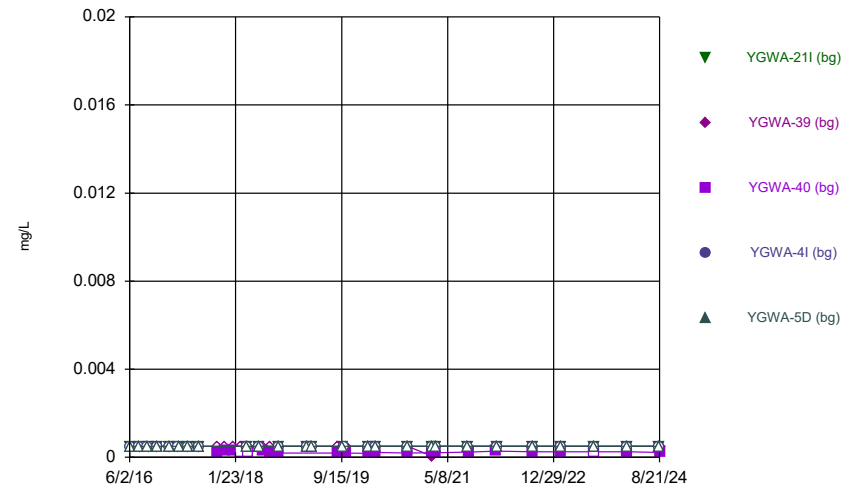
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



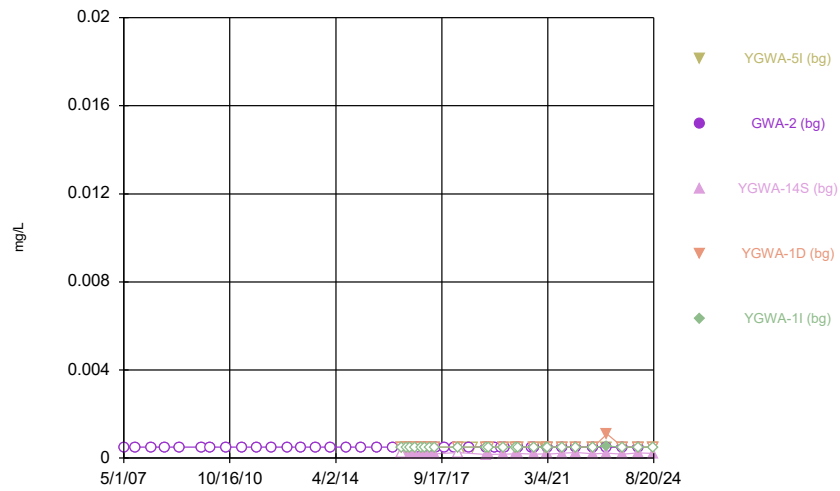
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



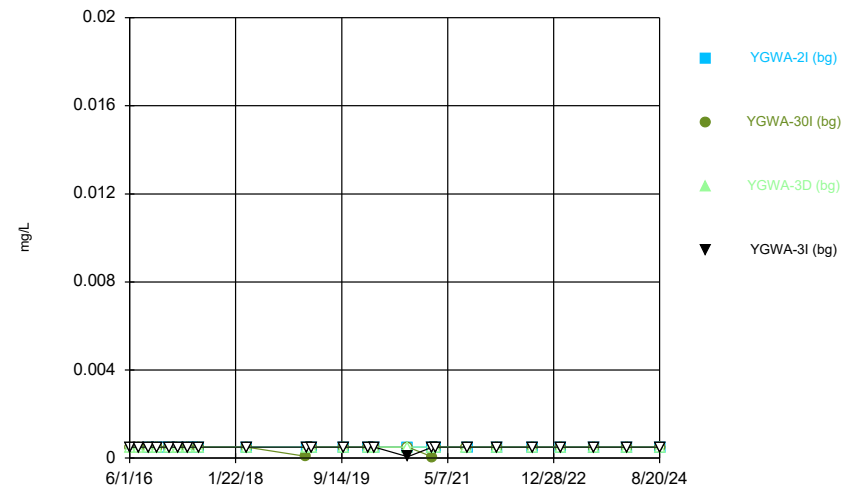
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



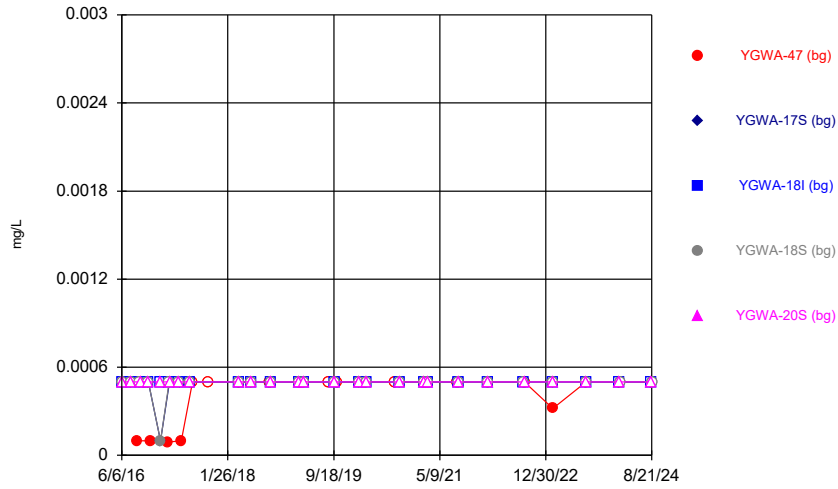
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



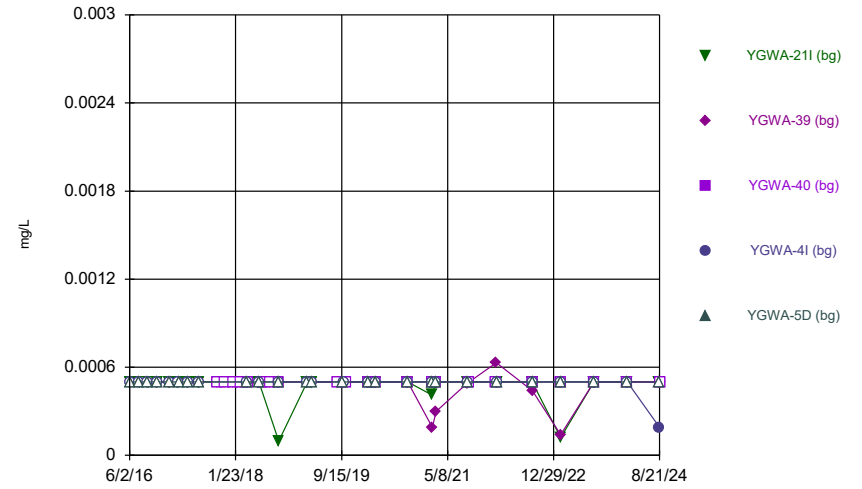
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



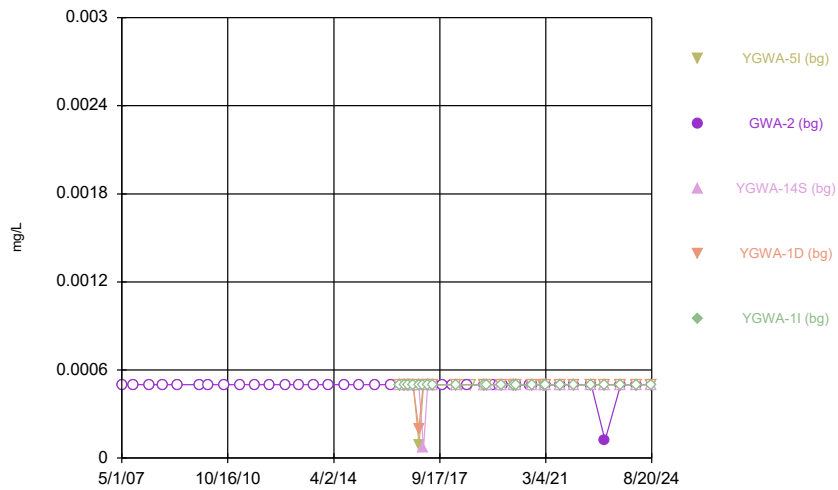
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



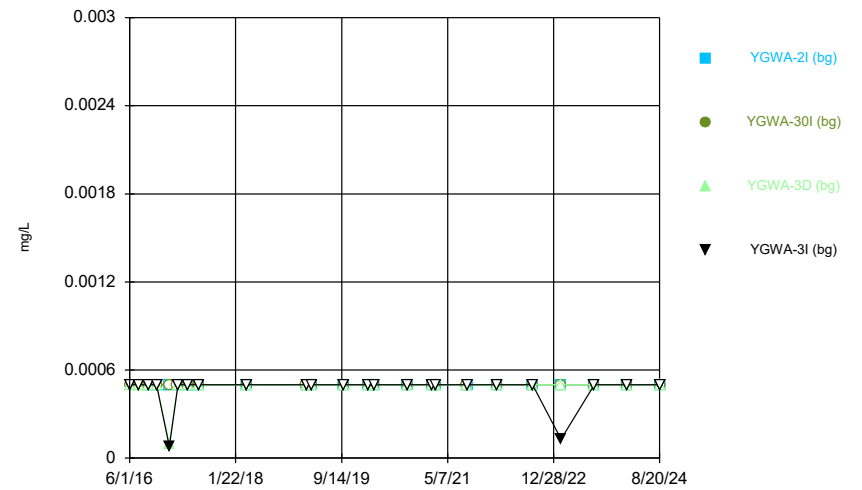
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Time Series



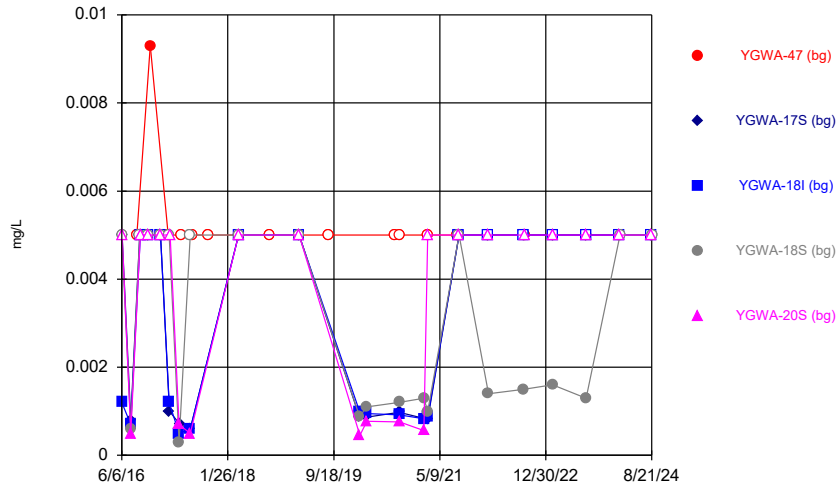
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



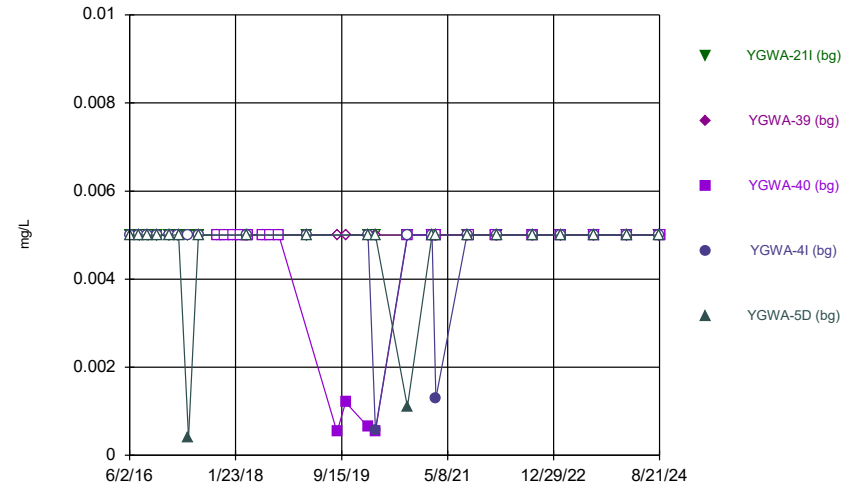
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Time Series



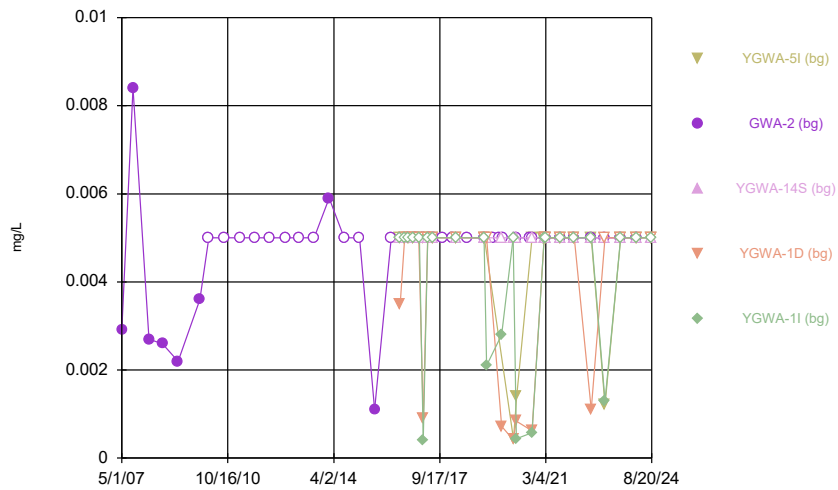
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



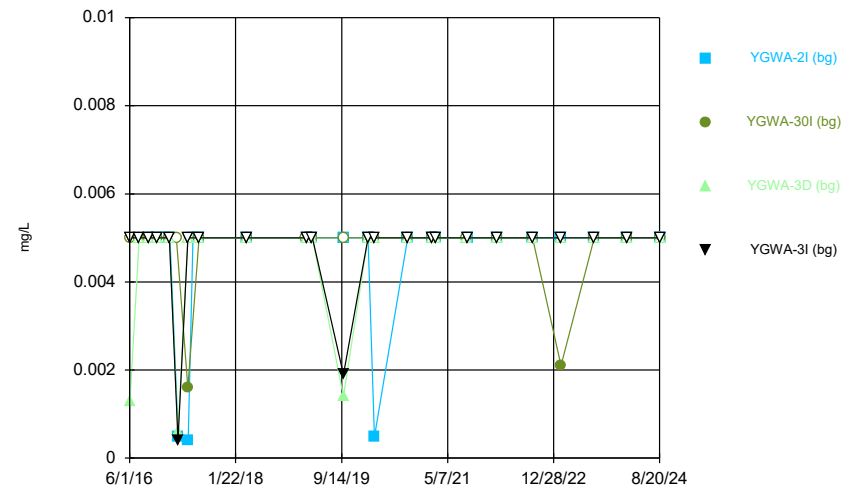
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



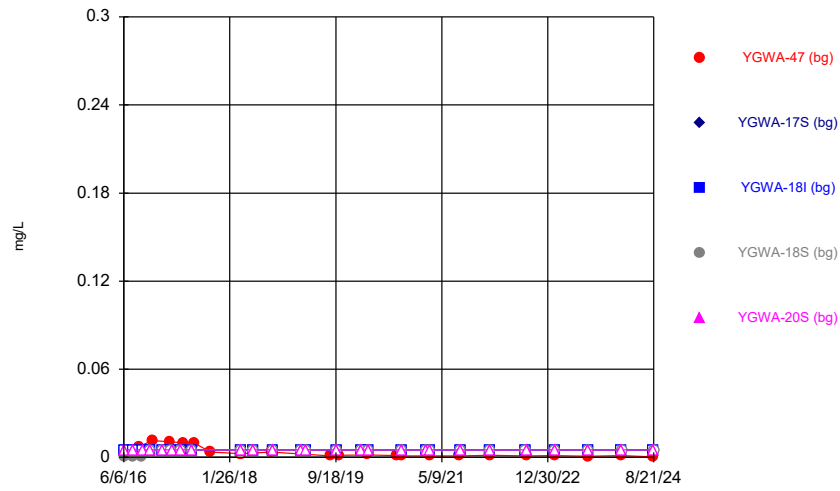
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



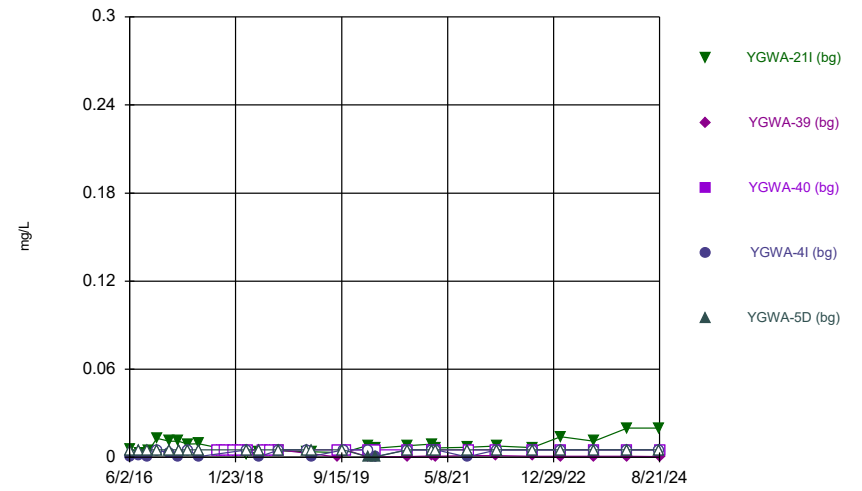
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



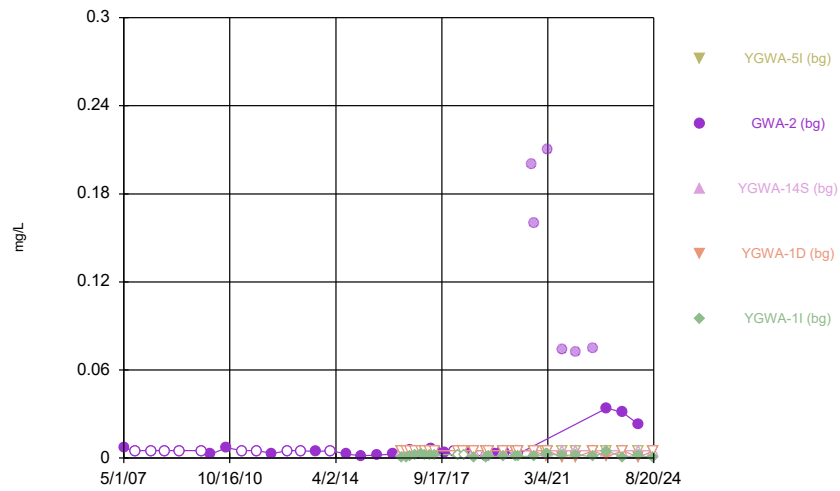
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



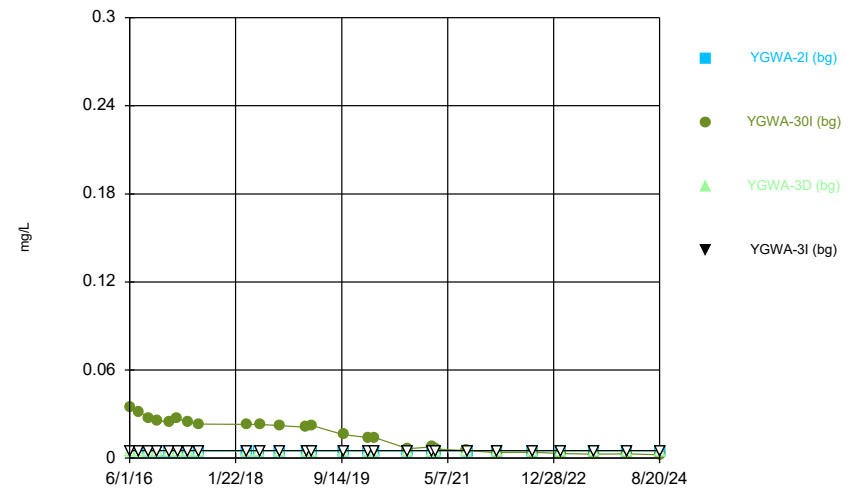
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



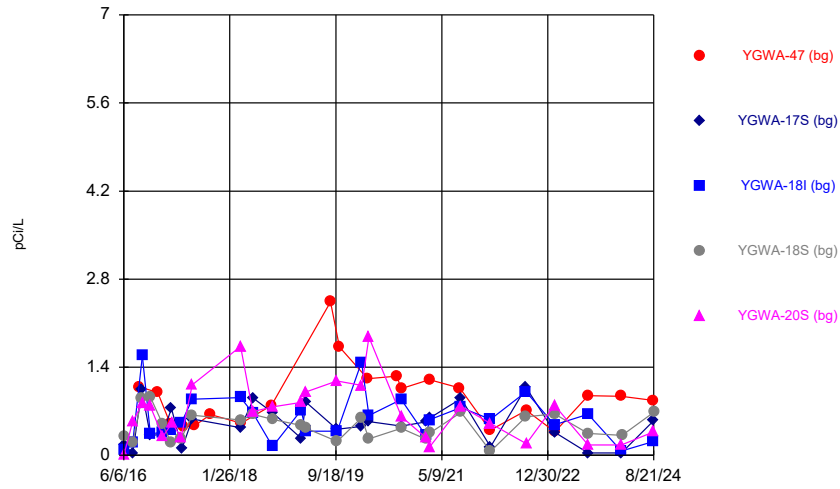
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



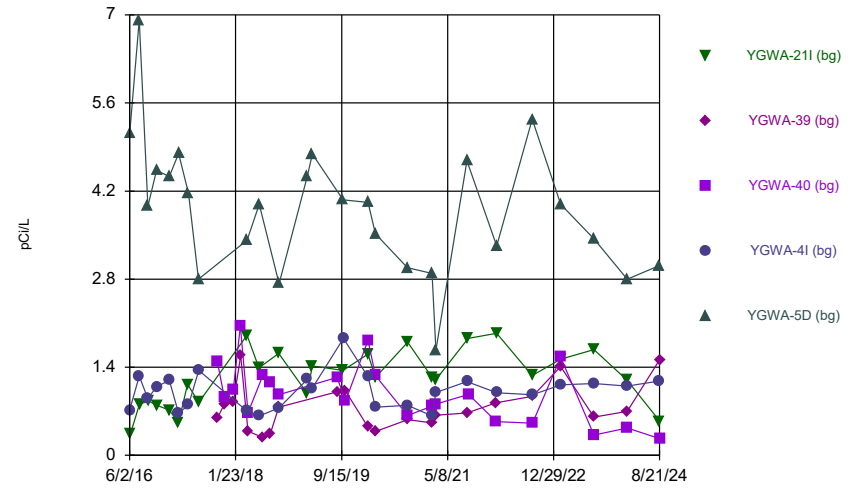
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



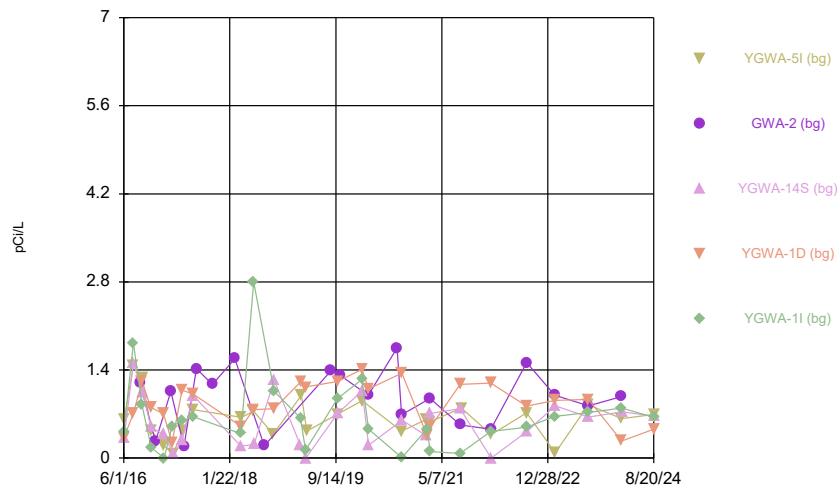
Constituent: Combined Radium 226 + 228 Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



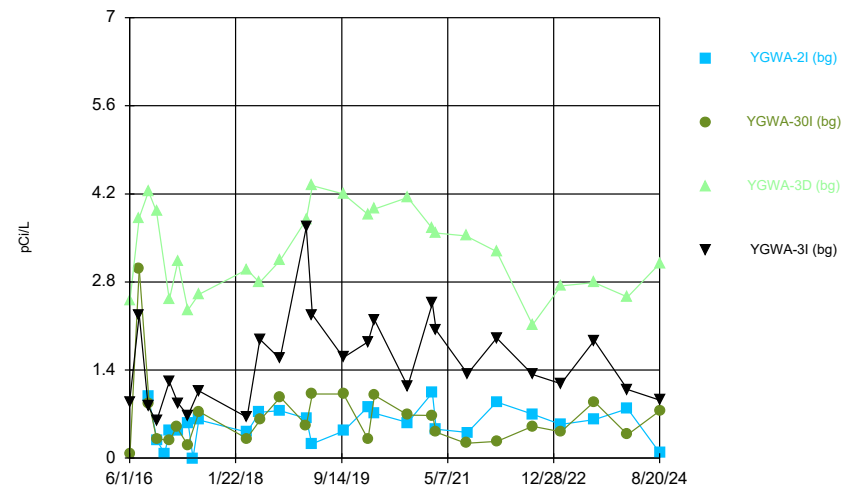
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



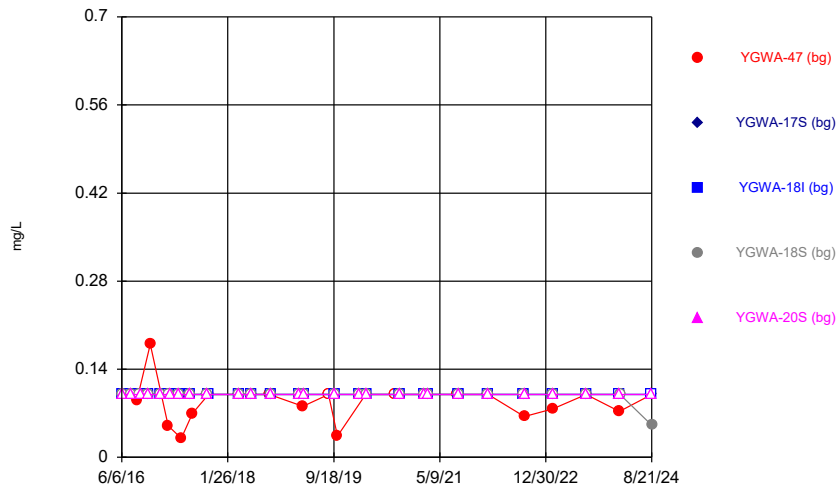
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



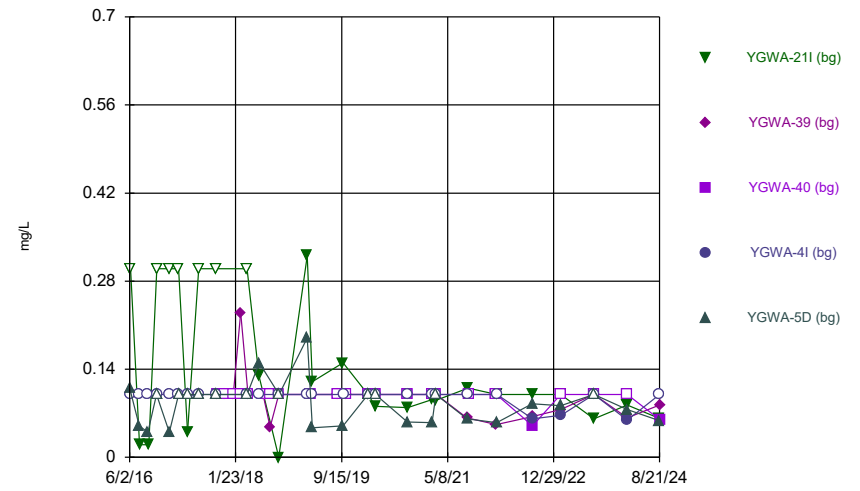
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



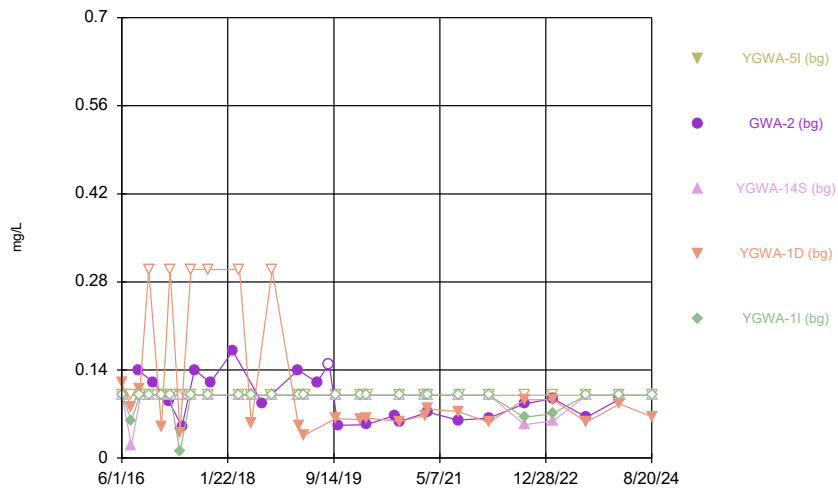
Constituent: Fluoride, total Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



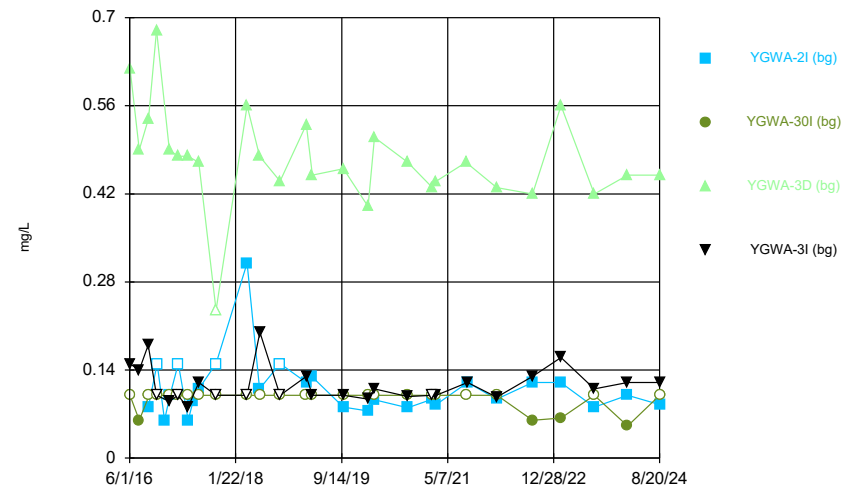
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



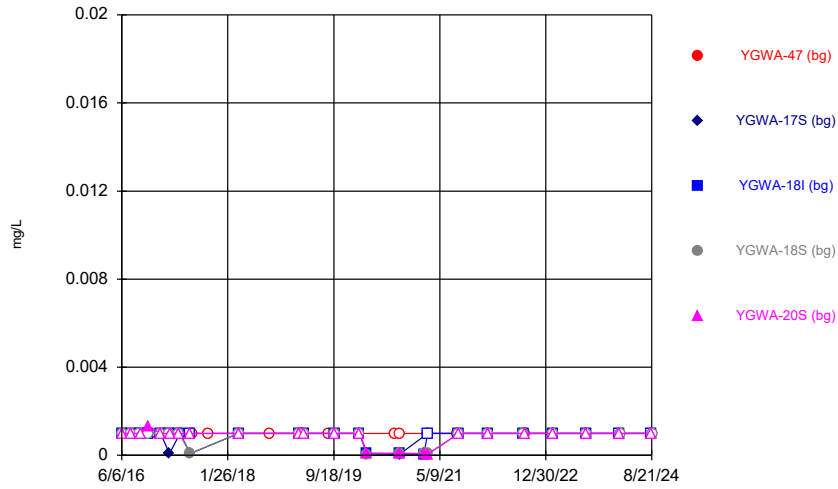
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



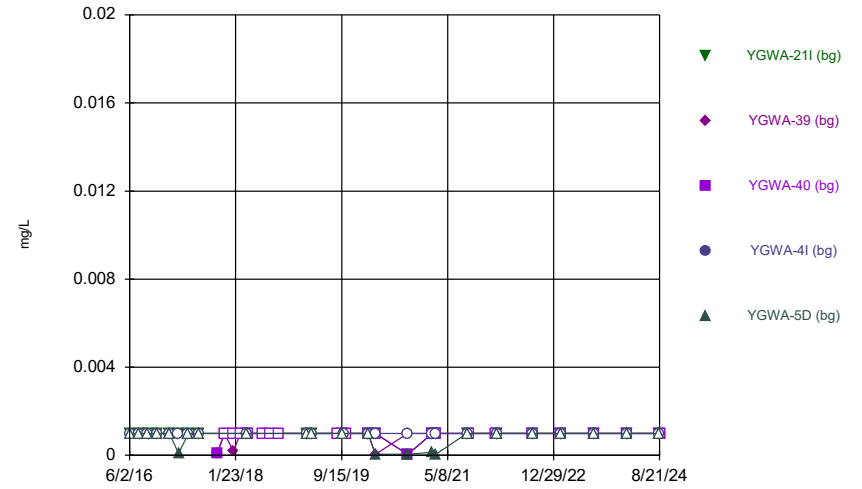
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



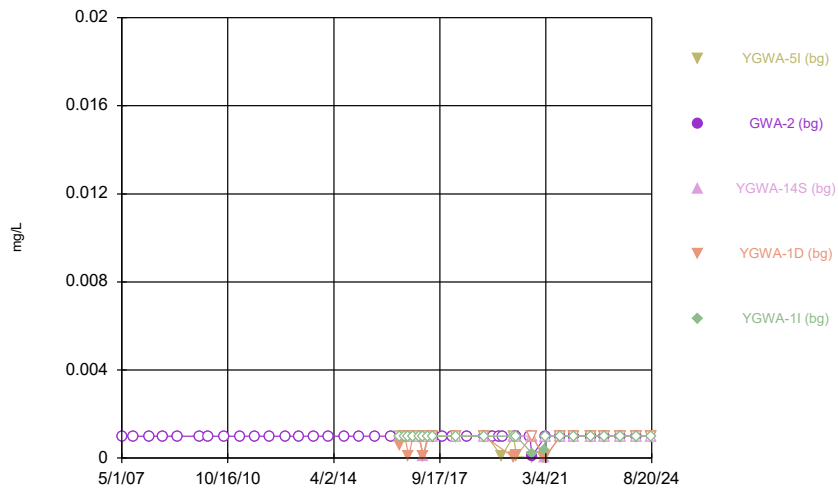
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



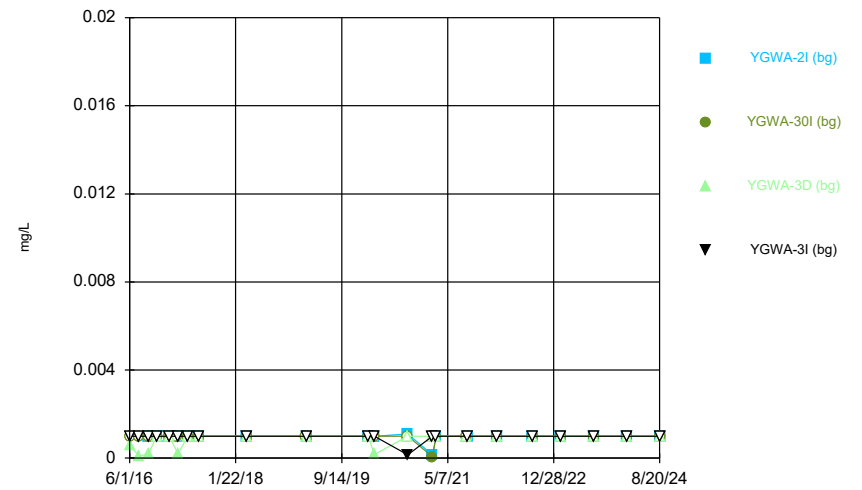
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



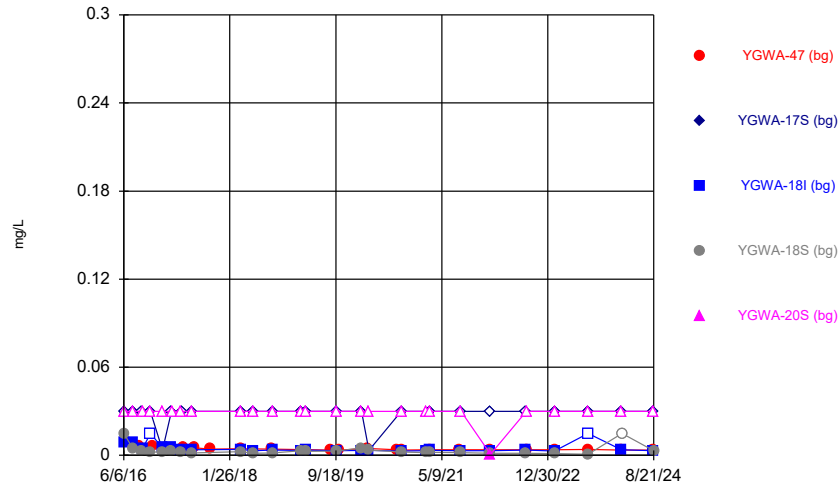
Constituent: Lead Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



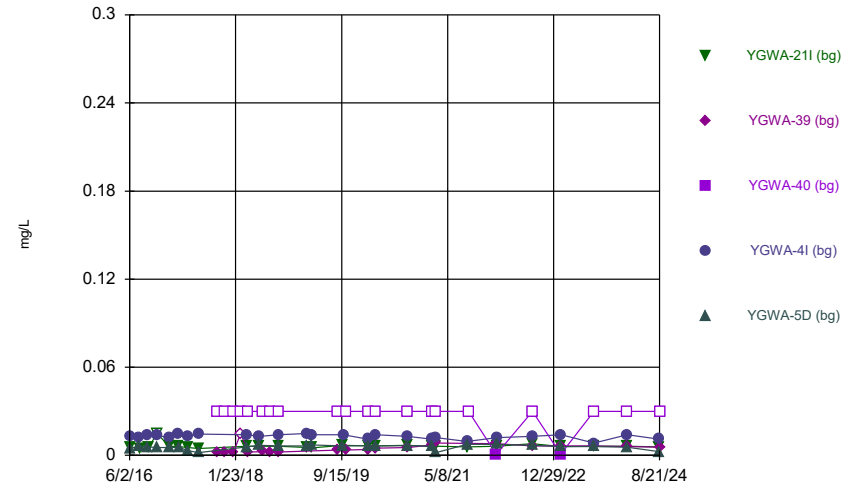
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



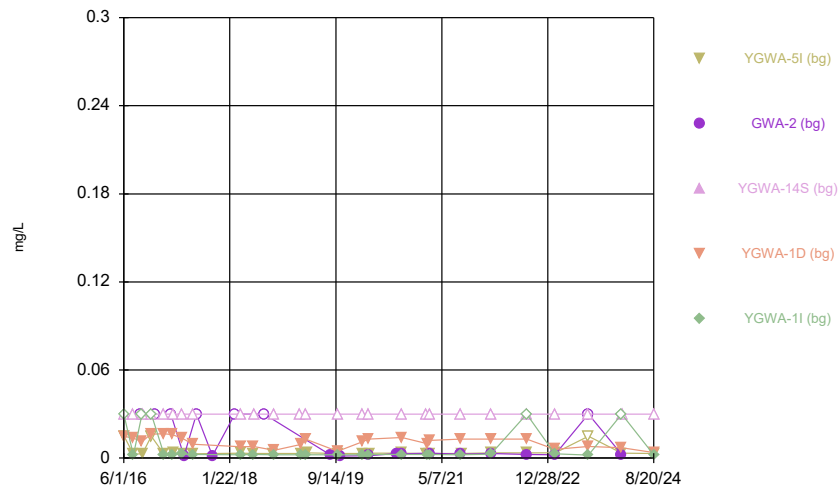
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Time Series



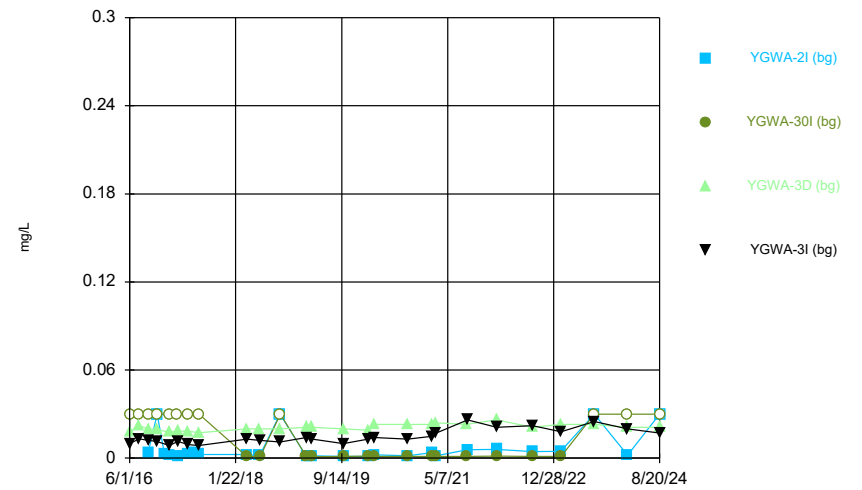
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



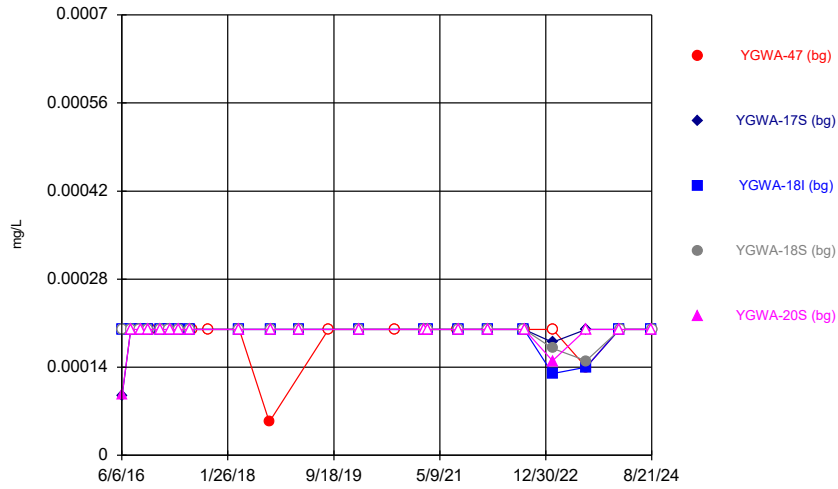
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



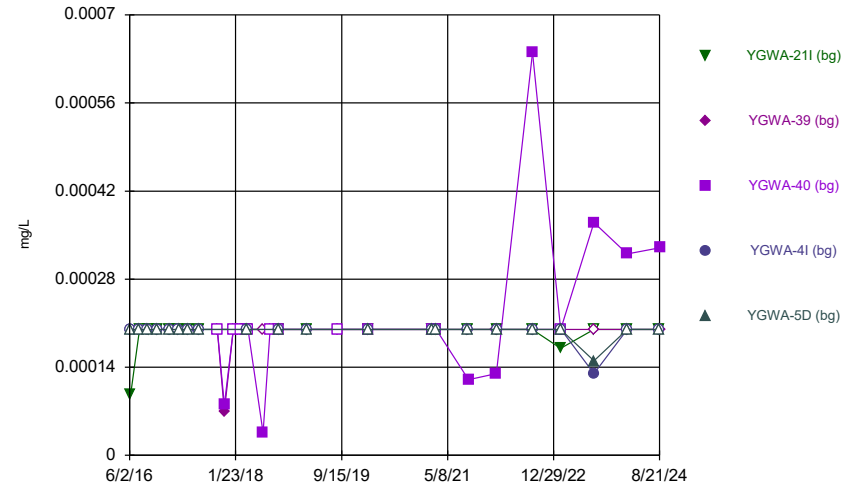
Constituent: Lithium Analysis Run 10/24/2024 3:28 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



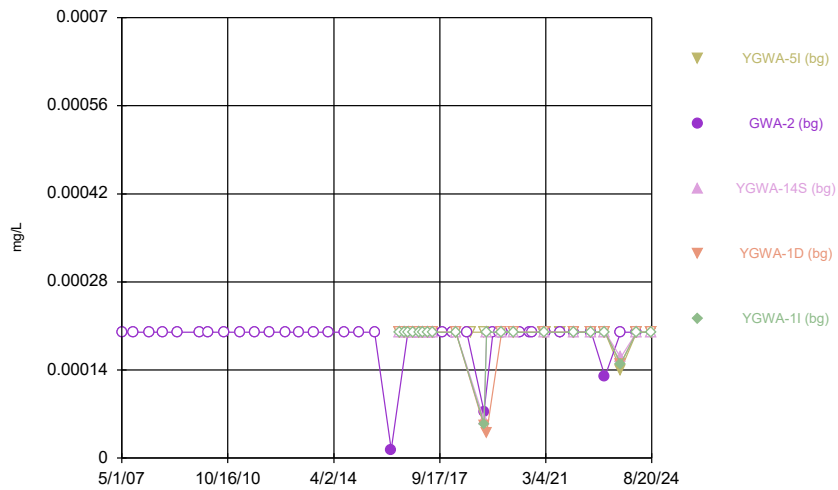
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



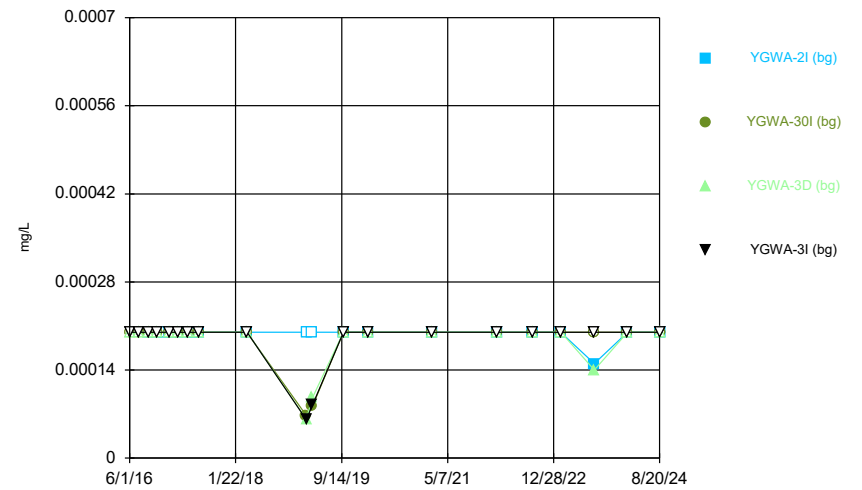
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



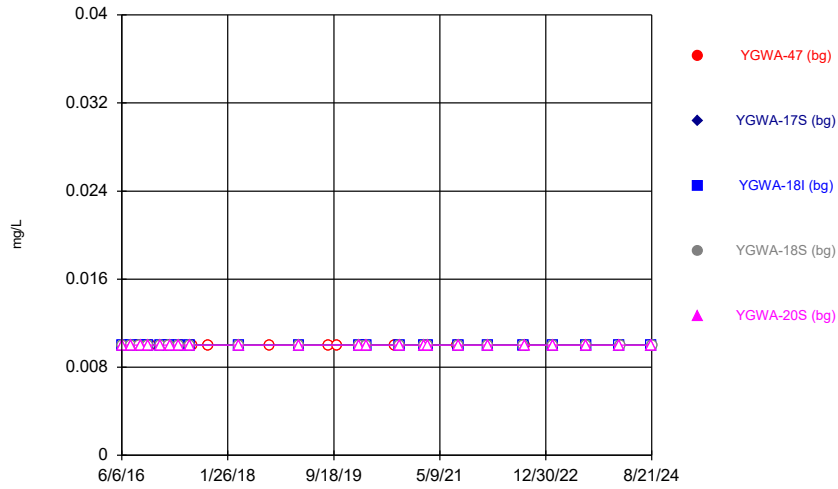
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



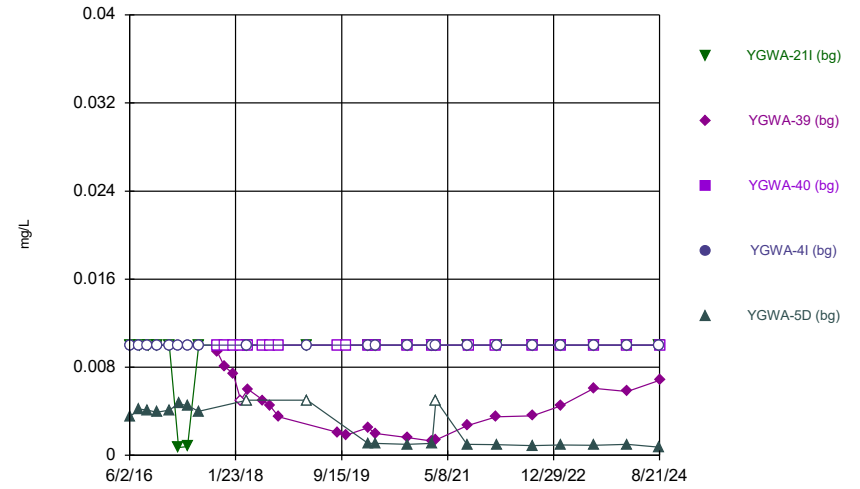
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



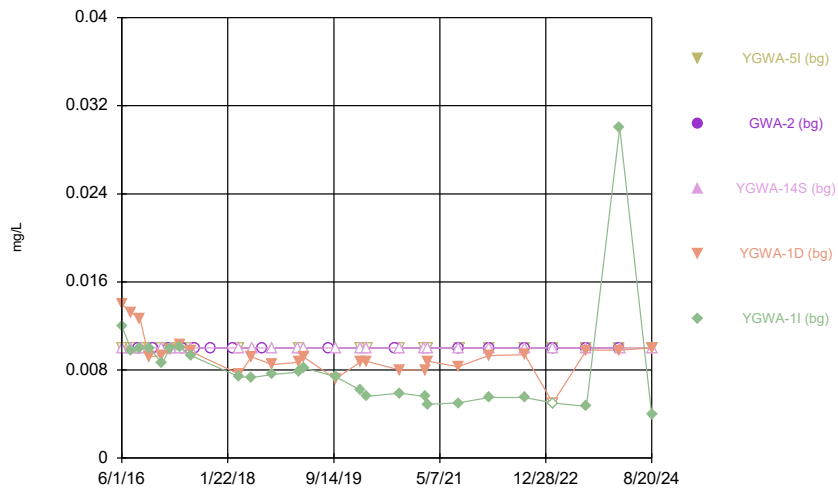
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



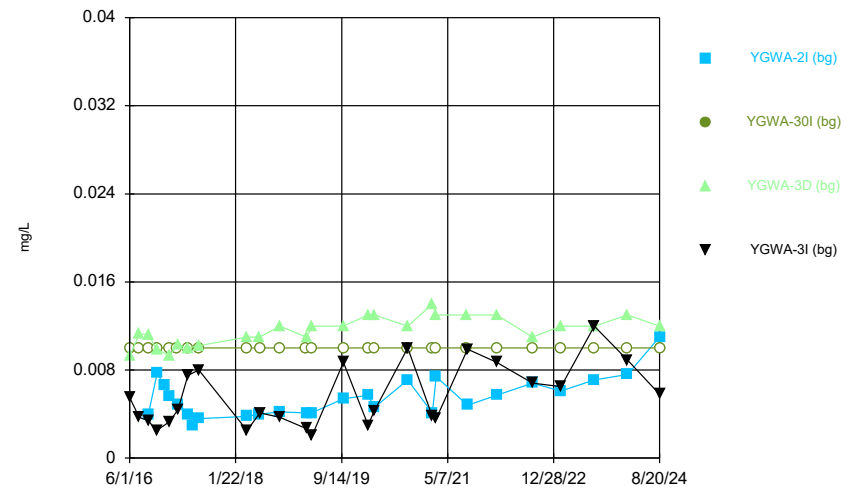
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



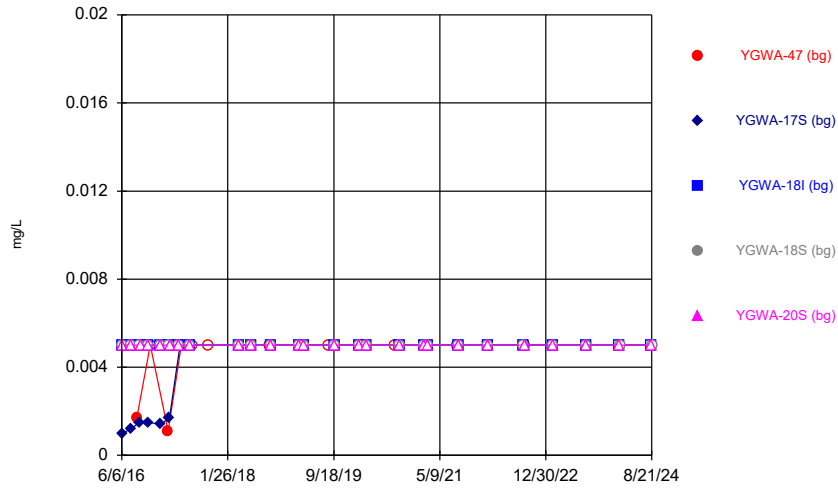
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



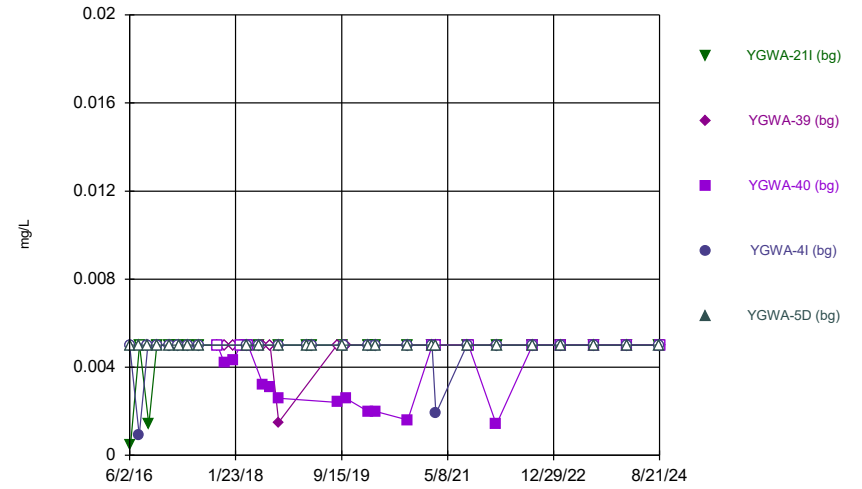
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



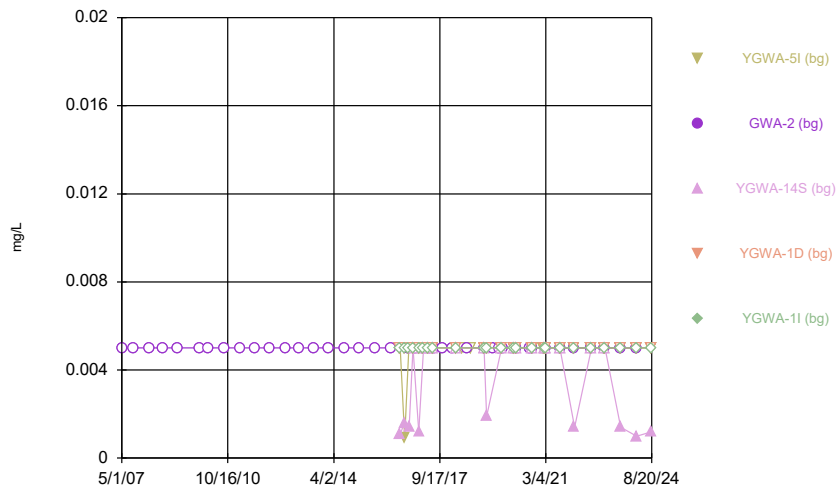
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



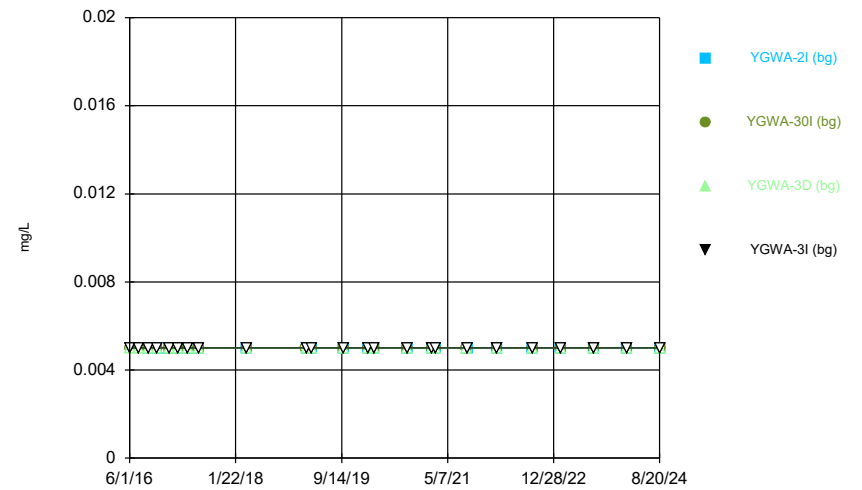
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



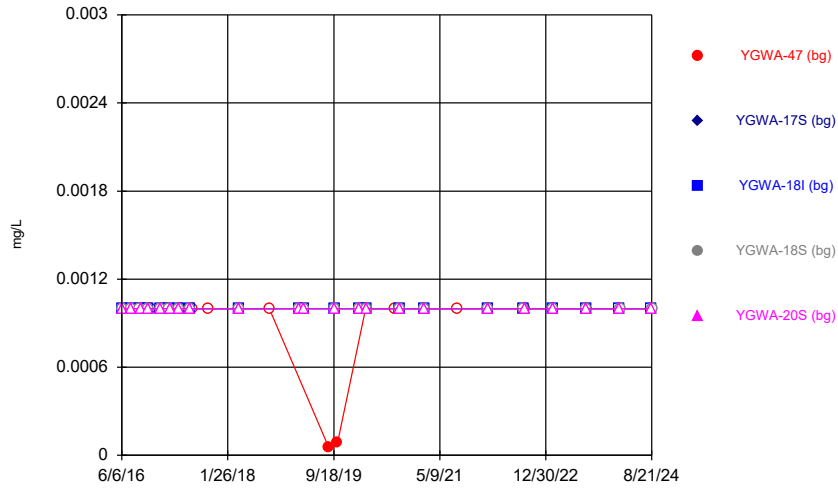
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



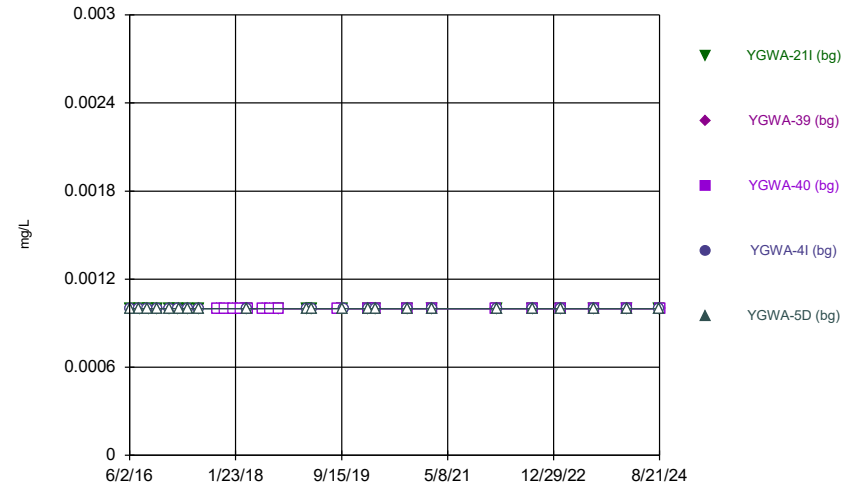
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



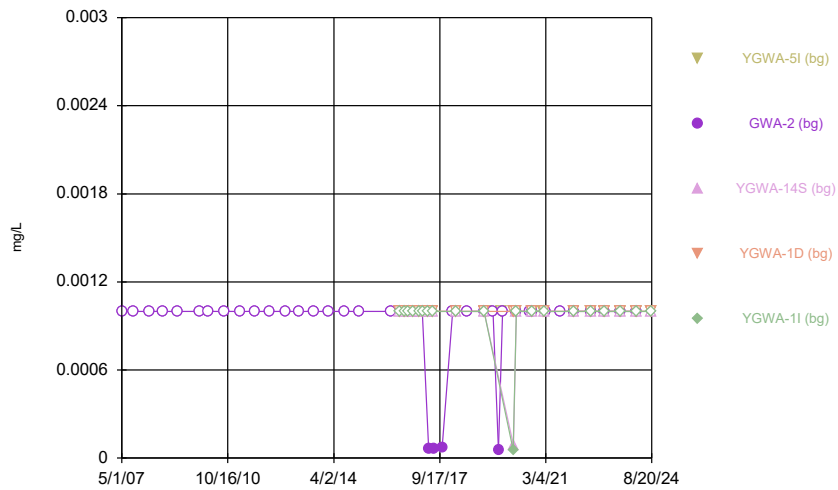
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



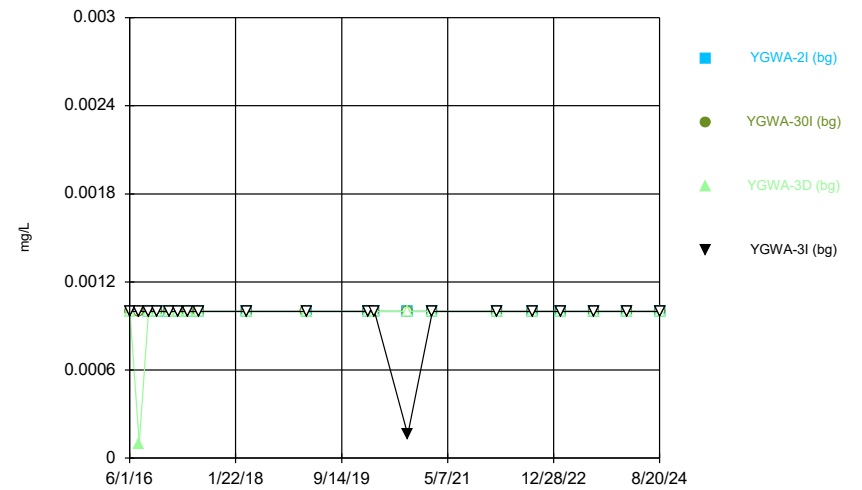
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



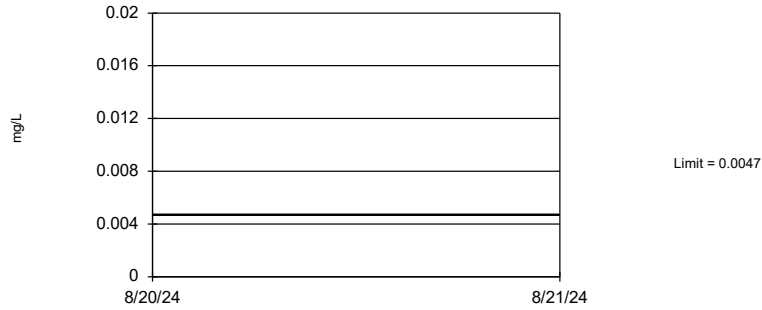
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

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

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

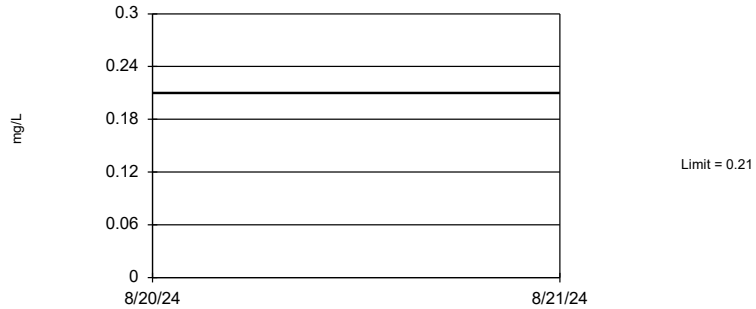
Tolerance Limit Interwell Non-parametric



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

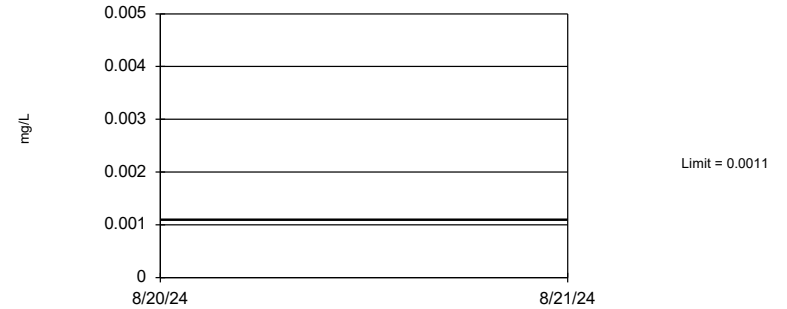
Tolerance Limit Interwell Non-parametric



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

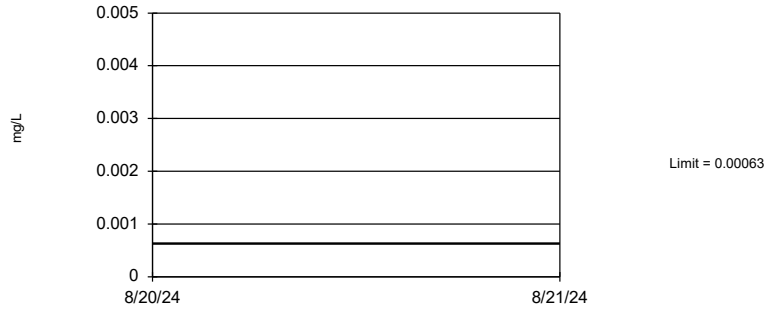
Tolerance Limit Interwell Non-parametric



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

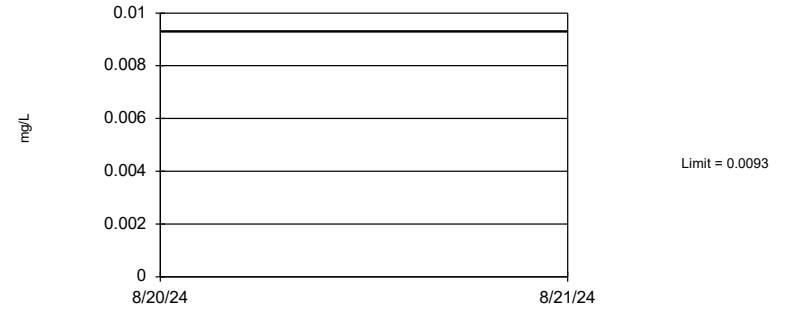
Tolerance Limit
Interwell Non-parametric



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

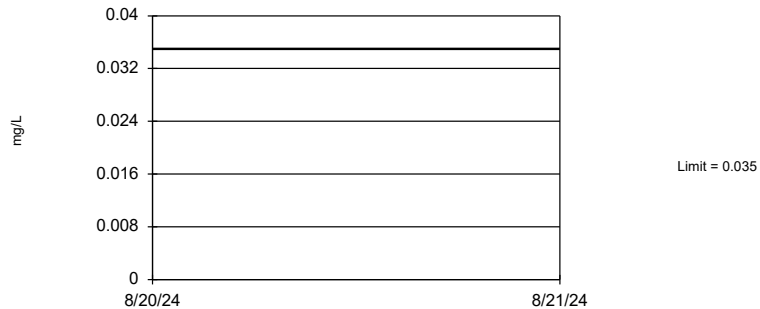
Tolerance Limit
Interwell Non-parametric



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

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

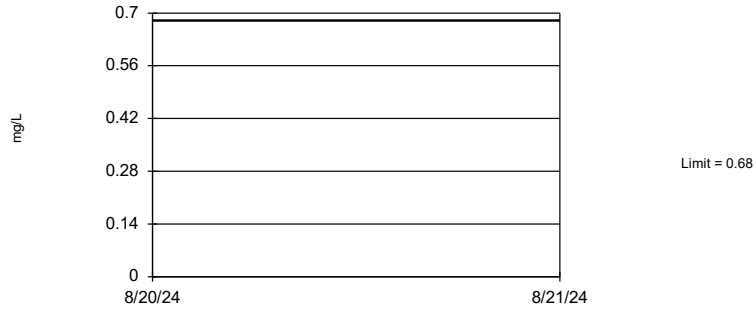
Tolerance Limit
Interwell Non-parametric



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

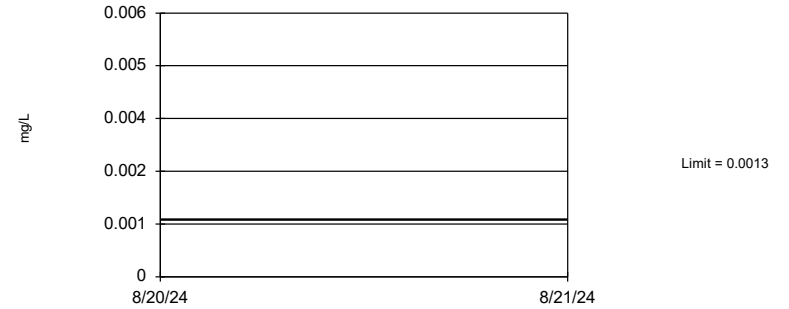
Tolerance Limit Interwell Non-parametric



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

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

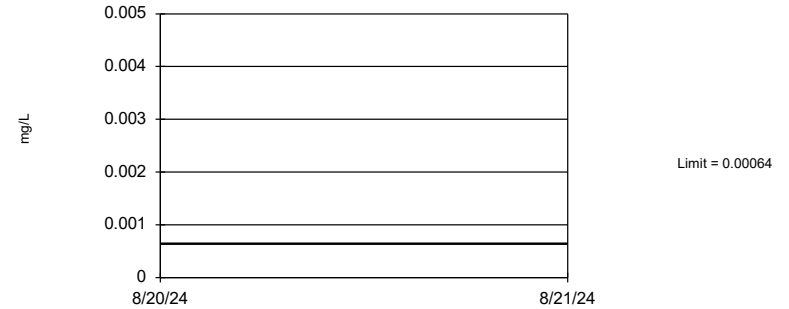
Tolerance Limit Interwell Non-parametric



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

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

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

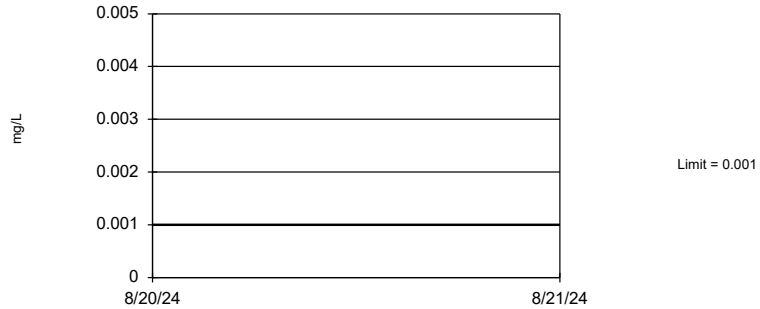
Tolerance Limit Interwell Non-parametric



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

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*

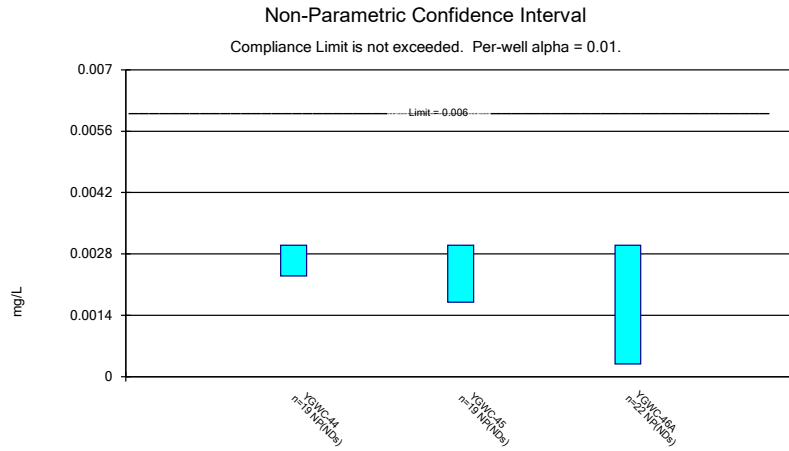
**GWPS = Groundwater Protection Standard*

FIGURE I.

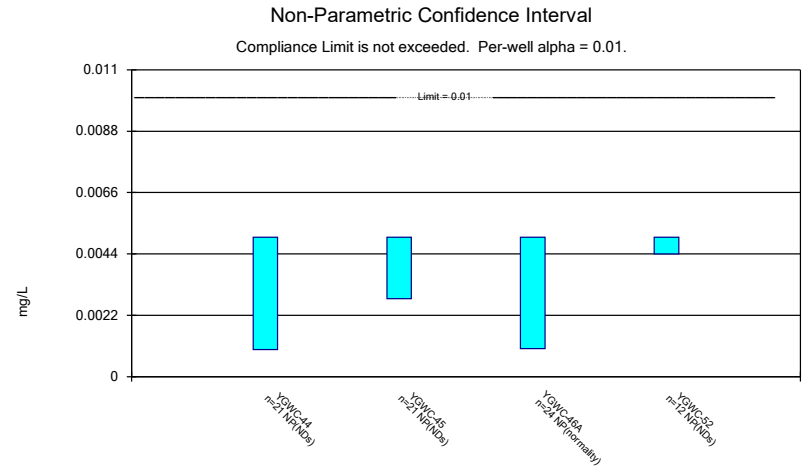
Confidence Interval Summary Table - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 11/6/2024, 6:34 PM

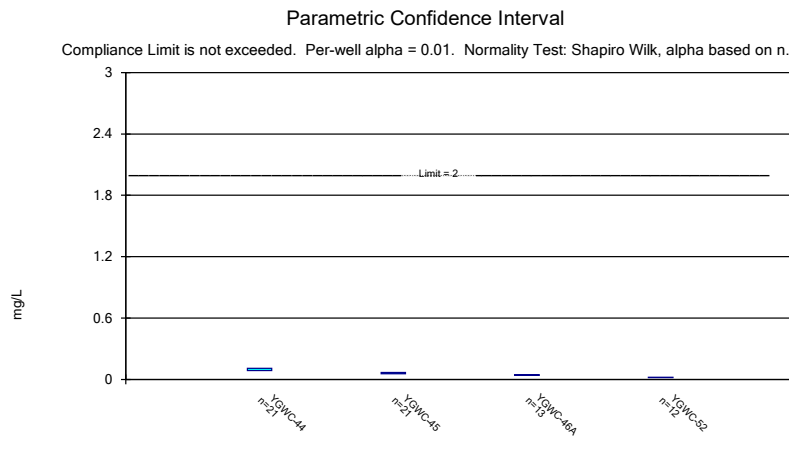
| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|----------|------------|------------|------------|------|----|-----------|------------|-------|--------------|-----------|-------|----------------|
| 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) |



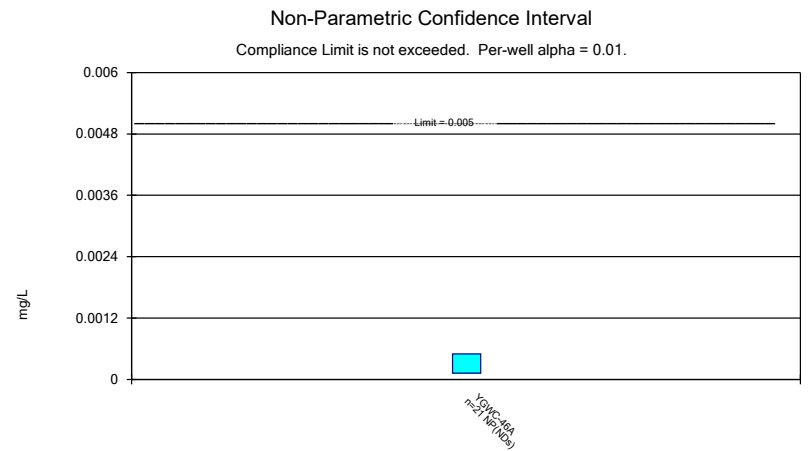
Constituent: Antimony Analysis Run 11/6/2024 6:33 PM View: Appendix IV - Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Ash Pond1



Constituent: Arsenic Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Ash Pond1



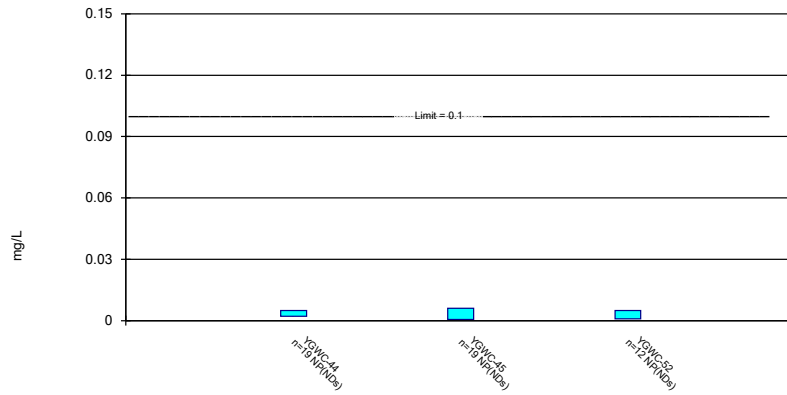
Constituent: Barium Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Ash Pond1



Constituent: Cadmium Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Non-Parametric Confidence Interval

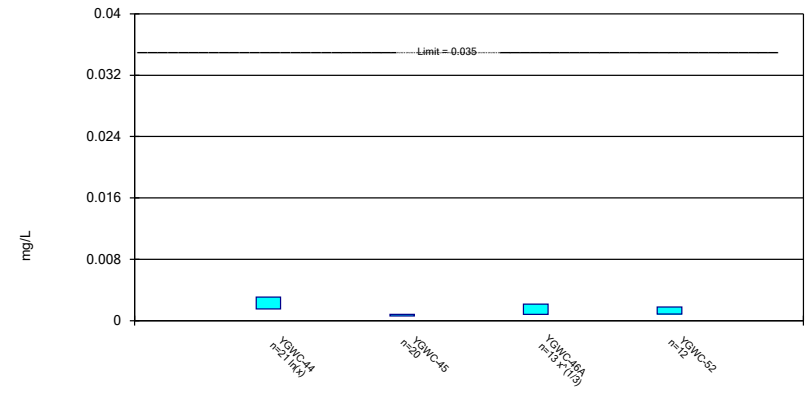
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Parametric Confidence Interval

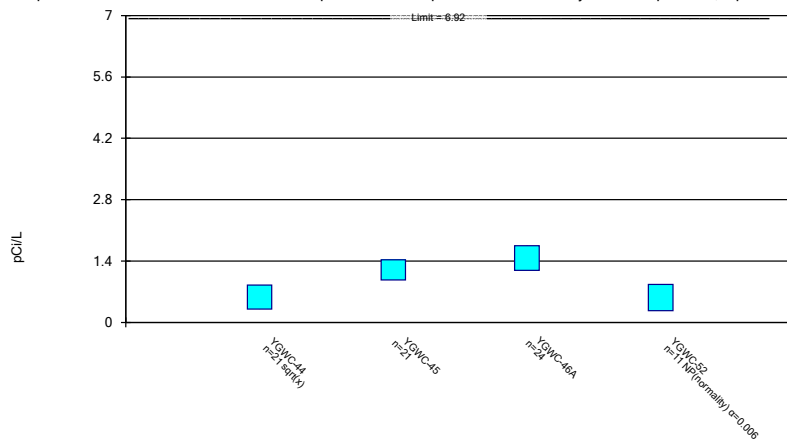
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Parametric and Non-Parametric (NP) Confidence Interval

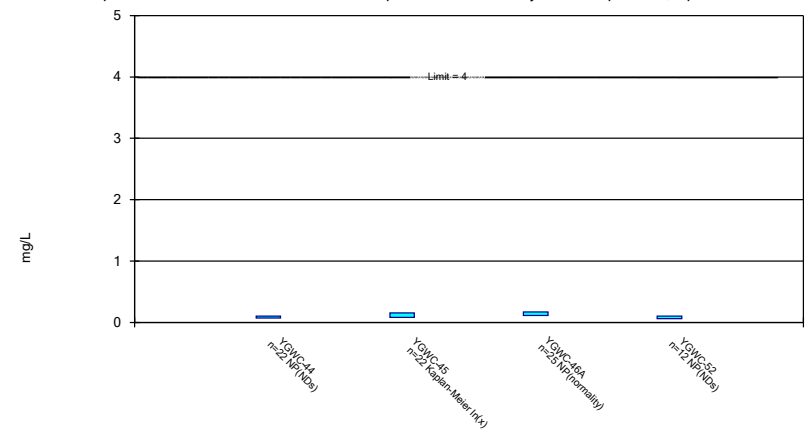
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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

Parametric and Non-Parametric (NP) Confidence Interval

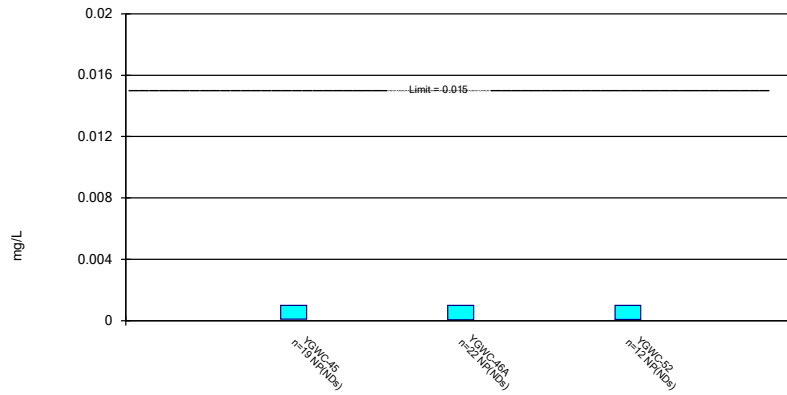
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

Non-Parametric Confidence Interval

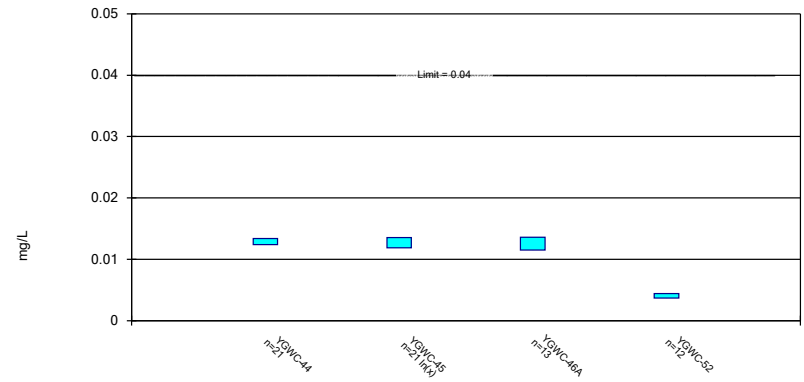
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Parametric Confidence Interval

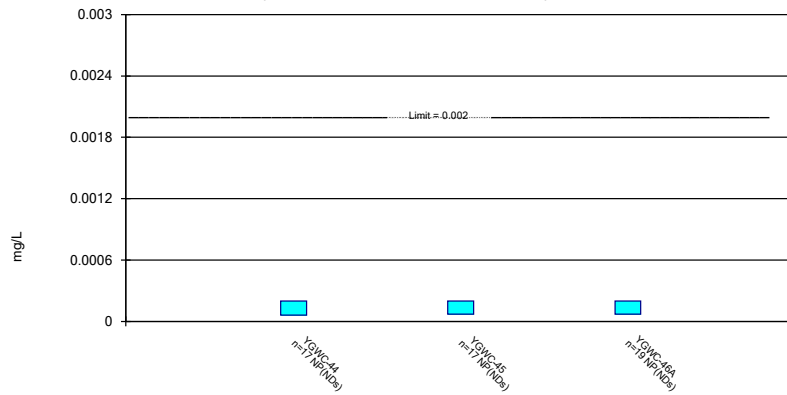
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Non-Parametric Confidence Interval

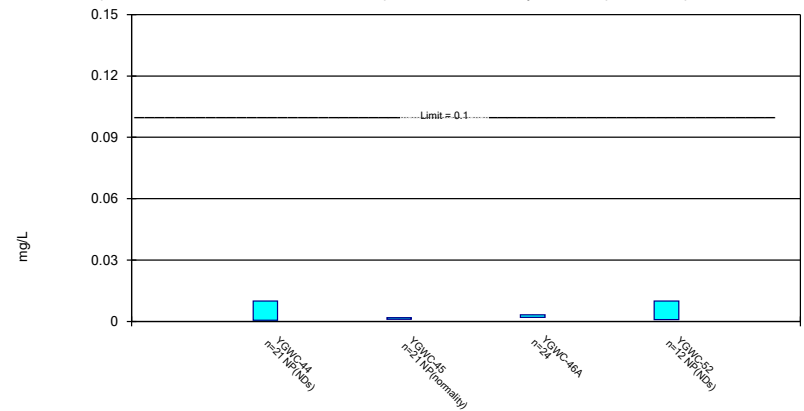
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Parametric and Non-Parametric (NP) Confidence Interval

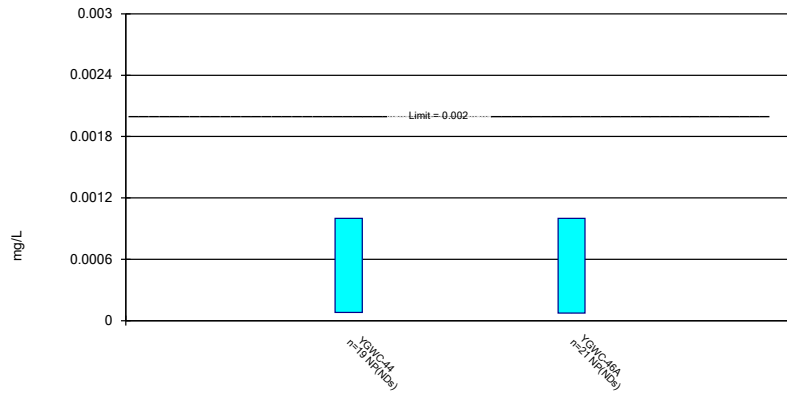
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/6/2024 6:34 PM View: Appendix IV - Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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 |

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 |

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 |

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 |

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 |

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 |

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 |

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 |

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 |

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 |

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