2022 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates AP-3, A, B, B', and R6 CCR Landfill
Newnan, Georgia

August 31, 2022

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Plant Yates – AP-3, A, B, B', and R6 CCR Landfill
Newman, Georgia

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Summary

This summary of the 2022 Semiannual Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from January through July 2022 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Ponds (AP) AP-3, A, B, B', and the R6 Landfill (the site). This summary was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual (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 has historically been transferred and stored at the site. The site is located on the southwestern portion of the Plant Yates property.

Plant Yates and the site

Groundwater at the site is monitored using a comprehensive multi-unit monitoring system of wells installed to meet federal and state monitoring requirements. Routine sampling and reporting began in 2017 after the completion of eight background sampling events. Based on groundwater conditions at the site, an assessment monitoring program was established on January 14, 2018 at AP-3, B, and B'; in September 2019 for AP-A; and on November 13, 2019 for the R6 Landfill. An assessment of corrective measures (ACM) was initiated on February 12, 2019 for the AP-3, B, and B' units. AP-A was added to the ACM on June 12, 2019, and the R6 CCR Landfill was incorporated on January 31, 2020. During the January through July 2022 reporting period, the site remained in assessment monitoring as corrective measures are being evaluated.

On February 22, 2022 GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. Statistical evaluation for the Spring 2022 event was updated to reflect these changes.

[1] 80 Federal Register (FR) 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; and 85 FR 53561, Aug. 28, 2020

During the first half of the 2022 reporting period, Arcadis conducted one semiannual groundwater sampling event in February. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results from February 2022 were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] and Appendix IV[3] parameters[4] in the wells identified in the following table.

Appendix III Parameter	February 2022
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43
Appendix IV Parameter[4]	**February 2022**
Selenium	YGWC-38, PZ-37

The selenium SSL at wells YGWC-38 and PZ-37 are horizontally delineated by downgradient wells YGWC-23S and YGWC-36A, respectively. YGWC-38 and PZ-37 are vertically delineated by PZ-52D. Beryllium concentrations at YGWC-38 have been decreasing since 2018 and below the GWPS since 2020. Using the eight most recent observations, beryllium no longer exhibits an SSL at YGWC-38.

Based on review of the Appendix III and Appendix IV statistical results for the groundwater monitoring and corrective action program from January through July 2022, the site will continue in assessment monitoring. A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022 under separate cover (Arcadis 2022).

Georgia Power will continue routine groundwater monitoring and reporting for the site. Reports will be posted to the website and provided to the Georgia Environmental Protection Division (GAEPD) semiannually.

[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS).
[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228
[4] 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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Acronyms and Abbreviations

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AP	Plant Yates Ash Pond
Arcadis	Arcadis U.S., Inc.
CCR	Coal Combustion Residuals
CCR units	the combined monitoring systems of AP-3, A, B, and B' and the R6 Landfill
CFR	Code of Federal Regulations
GAEPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
GWPS	Groundwater Protection Standard
MCL	maximum contaminant level
MDL	method detection limit
mg/L	milligrams per liter
QA/QC	quality assurance/quality control
SSI	statistically significant increase
SSL	statistically significant level
USEPA	United States Environmental Protection Agency

Professional Certification

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report for the Georgia Power Company Plant Yates AP-3, A, B, B', and R6 CCR Landfill has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations 257 Subpart D) 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, and 40 CFR Part 258.50(g).

Arcadis U.S., Inc.

8.31.22

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Date

1 Introduction

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report describes groundwater monitoring activities conducted at the Georgia Power Company (Georgia Power) Plant Yates Ash Ponds (AP) AP-3, A, B, B', and R6 Landfill (the site) in February 2022. 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 Rule is cited within this report.

This report presents the results of February 2022 semiannual monitoring for Appendix III and Appendix IV parameters of 40 CFR 257 and 391-3-4-.10(6)(c), as well as activities completed January through July 2022 in accordance with Rule 391-3-4-.10(6)(c).

1.1 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. Areas where CCR Removal Reports have been submitted to GA EPD are shown in **Figure 2.** Monitoring well and piezometer locations are shown on **Figure 3**.

Two permit application packages were submitted to GAEPD in November 2018: one for AP-3, A, B, and B', and another for the R6 CCR Landfill. Due to the configuration of the units and overall groundwater flow direction, both permits propose combining the monitoring systems of AP-3, A, B, and B' and the R6 Landfill into a single multi-unit monitoring system that meets federal and state monitoring requirements. Although the permit application is still in review, Georgia Power proactively began monitoring the R6 Landfill as part of a combined multi-unit monitoring program. Groundwater monitoring and reporting for the CCR units are performed in accordance with the monitoring requirements presented in §§ 257.90 through 257.95 of the federal CCR Rule and GAEPD Rule 391-3-4-.10(6)(a)-(c).

Assessment monitoring of the groundwater monitoring unit at AP-3, A, B, and B' began according to 40 CFR § 257.95 in January 2018. An Assessment of Corrective Measures (ACM) Report for AP-3, A, B, and B' was submitted in June 2019 per 40 CFR § 257.96 to address a statistically significant level (SSL) of beryllium. The initial groundwater monitoring report for the R6 CCR Landfill was completed on July 31, 2019 (Atlantic Coast Consulting, Inc. [ACC] 2019). Assessment monitoring for the R6 CCR Landfill was initiated on November 13, 2019.

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report includes combined results for assessment monitoring of AP-3, A, B, B' and the R6 CCR Landfill.

1.2 Regional 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 photographs of the Plant Yates area (ACC 2020).

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 and varies with topography. 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 typically ranges from 10^{-3} to 10^{-4} centimeters per second, based on multiple rising-head and falling-head slug tests (ACC 2019). 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 40 CFR § 257.91, a multi-unit groundwater monitoring system was installed within the uppermost aquifer at the site. The multi-unit monitoring system is designed to monitor groundwater passing the waste boundary of the CCR units 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 1A**. Additionally, a series of piezometers and non-network wells is installed to supplement characterization and groundwater elevation measurements (**Table 1B**).

As is typical of the Piedmont Physiographic Province, there is a degree of connectivity between the saprolite and partially weathered rock units (Harned, D.A., and Daniel, C.C., III 1992). 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. Wells suffixed with an "S" are installed in saprolite; an "I" indicates partially weathered rock (transition zone), and a "D" indicates upper bedrock. The monitoring well network for the site is depicted on **Figure 3**.

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in 2022 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the monitoring system shown on **Figure 3**.

Groundwater sampling events conducted by Arcadis U.S., Inc. (Arcadis) in February 2022 at AP-3, A, B, B', and the R6 CCR Landfill are summarized in **Table 2**. Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well Installation and Maintenance

During this reporting period, monitoring well-related activities included the visual inspection of well conditions prior to sampling, recording site conditions, and performing exterior maintenance to provide safe access for sampling. Additionally, YGWC-24SA and PZ-24IA were abandoned on May 25, 2022 to accommodate planned road re-alignment construction work at Dyer Road. A well abandonment report is located in **Appendix B**. A work plan for the installation of replacement wells will be submitted to GAEPD under separate cover and the well will be installed once the final Dyer Road re-alignment construction is complete.

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)). There were no well maintenance issues during this period that required corrective actions as documented in **Appendix B**.

2.2 Assessment Monitoring

An assessment monitoring program was initiated on January 14, 2018 at AP-3, B, and B' and in September 2019 for AP-A. A notice of assessment monitoring was placed in the operating record on May 15, 2018. AP-A is an inactive surface impoundment subject to the revised requirements of 40 CFR § 257.100 and was added to the multi-unit system on April 17, 2019. Assessment monitoring was initiated at the R6 CCR Landfill following review of the results of the March 2019 monitoring event. The first semiannual assessment monitoring event for the R6 CCR Landfill occurred in October 2019; a notice of assessment monitoring for the R6 CCR Landfill was placed in the operating record on November 13, 2019. AP-3, A, B, B' and the R6 CCR Landfill currently remain in assessment monitoring as corrective measures are evaluated.

Semiannual assessment monitoring at the site for Appendix III and Appendix IV parameters was conducted in February 2022 pursuant to 40 CFR § 257.95(b) and CFR § 257.95(d). Groundwater sampling activities completed during the reporting period as part of semiannual assessment monitoring are summarized in **Table 2**.

2.3 Other Groundwater Sampling

To further characterize groundwater quality at the site, samples were collected from wells YAMW-1 through YAMW-5, PZ-35, and PZ-37 in February 2022. Additionally, to further delineate selenium concentrations vertically near PZ-37, samples were collected at PZ-37D and PZ-52D in February 2022. Well locations are presented on **Figure 3**. Sampling and analysis were performed following the procedures outlined in Section 3. Analytical results of this additional sampling are included in **Table 6**.

2.4 Assessment of Corrective Measures

Based on assessment monitoring results presented in the 2018 Annual Groundwater and Corrective Action Monitoring Report, a Notice of Assessment of Corrective Measures was placed in the operating record on February 12, 2019 for the AP-3, B, and B' units in accordance with 40 CFR § 257.96. AP-A was added to the multi-unit groundwater monitoring system on April 17, 2019. The Assessment of Corrective Measures Report for AP-3, A, B, and B' was placed in the operating record on June 12, 2019. The first Groundwater Remedy Selection and Design Progress Report was submitted on December 12, 2019 and updated on January 31, 2020 to include the R6 CCR Landfill which was incorporated into the ACM. A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GAEPD on August 31, 2022 under separate cover (Arcadis 2022).

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 the February 2022 sampling event, static water levels were recorded from piezometers and wells in the well network at AP-3, A, B, B' and the R6 CCR Landfill. Water levels were collected from the monitoring wells and piezometers as noted in **Table 3**.

Saprolite, transition zone, and shallow bedrock groundwater elevation data were used to prepare potentiometric surface elevation contour maps for February 2022 (**Figure 4**). The groundwater flow direction for the saprolite, transition zone, and shallow bedrock wells is generally toward the west, northeast, and east from the area south of the R6 Landfill ash disposal area, which serves as a topographic high and groundwater recharge area. Groundwater flows west from the eastern portions of the Ash Management Area, AP-3 area, and AP-B' area to the central portion of the site. The groundwater flow direction is consistent with historical patterns and follows the topographic low between the Ash Management Area (AMA) and R6. It is interpreted that variations between saprolite/transition zone wells and deep bedrock wells are attributed to bedrock geologic structural controls, and therefore do not reflect the surficial aquifer potentiometric surface. Based on this interpretation, the deep bedrock potentiometric surface was not used for contouring.

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

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

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). Calculated groundwater flow velocities for February 2022 are presented in **Table 4**. The calculated average linear flow velocity for February 2022 is 26 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, thereby, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

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). All non-disposable equipment was decontaminated before use and between use at well locations.

An AquaTroll 600 (In-Situ® field instrument) was used to monitor and record field water quality parameters during well purging. The stabilization criteria for pH and specific conductivity readings, as noted below, were used to verify stabilization prior to 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 unit for pH;

± 5% for specific conductivity; and

Less than 5 nephelometric turbidity units for turbidity

±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 containers with preservative (where applicable). The sample containers were immediately placed on ice in an insulated cooler. The samples were submitted to Pace Analytical Services, LLC following chain-of-custody protocol. Stabilization logs for each well are included in **Appendix B**.

3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from each monitoring well as summarized in **Table 2**. During the February 2022 sampling event, the AP-2 wells were sampled and analyzed for Appendix III parameters as well as

for Appendix IV parameters according to 40 CFR § 257.95(b). **Table 5** provides a summary of the constituents monitored during the event. The methods used for groundwater sample analyses are listed in the analytical laboratory reports included in **Appendix C**.

Analytical data collected during the sampling event is summarized in **Table 6**. 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 included in **Appendix C**.

3.4 Data Quality Assurance/Quality Control and Validation

During the sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one sample per every 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment was used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spike/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 report included in **Appendix C** summarizes 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, quality control samples, and data associated with the chemical analytical results. The data are considered usable for meeting project objectives and the results are considered valid. The complete results of the data quality evaluations are provided in **Appendix C**.

A "J" flag following a value indicates 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 obtained from the AP-3, A, B, B', and R6 Landfill February 2022 assessment monitoring event was performed pursuant to 40 CFR §§ 257.93–95 following established, certified statistical methods. The statistical method for 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 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 Statistical Methods

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 February 2022 event were 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 statistically significant increase (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 containing 100 percent non-detects.

When data contained less than 15 percent non-detects in background samples, 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 Assessment Monitoring Statistical Methods

Interwell parametric tolerance limits were used to calculate background limits from pooled upgradient well data for the wells identified in **Table 1A** for Appendix IV constituents with a target of 95 percent confidence and 95 percent coverage.

The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background levels are then used when determining the groundwater protection standards (GWPS) in accordance with 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 40 CFR §§ 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; or

The background level for constituents for which the background level is higher than the MCL or CCR Rule identified GWPS.

On February 22, 2022 GA EPD updated to the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established, except when site specific background concentrations of these constituents are higher. Statistical evaluation for the Spring 2022 event was updated to reflect these changes.

GWPSs have been established for statistical comparison of Appendix IV constituents at AP-3, A, B, B', and the R6 CCR Landfill. **Table 7** summarizes the background limits established for each monitoring well for the February 2022 sampling event as well as the GWPS.

To complete the statistical comparison to GWPSs, confidence intervals were constructed for each of the Appendix IV parameters detected in each downgradient well. Those confidence intervals were compared to the GWPSs established under federal and state rules. A sampling result from a well/constituent pair was considered to exceed its respective standard only when results from 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 constituent concentrations have returned to background levels. Appendix IV assessment monitoring parameters were evaluated for AP-3, A, B, B,' and the R6 CCR Landfill to determine whether concentrations statistically exceed the established GWPSs. Appendix IV analytical data from the February 2022 semiannual assessment monitoring event for the combined AP-3, A, B, B', and R6 CCR Landfill were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats Consulting 2019).

4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the February 2022 sampling event presented in **Appendix D**, Appendix III constituents have not returned to background levels; therefore, assessment monitoring should continue pursuant to 40 CFR § 257.95(f). **Appendix D** includes a table summarizing site monitoring wells for which analytical sampling results have identified constituents with SSIs from each semiannual event.

4.2.2 Appendix IV Assessment Monitoring Constituents – February 2022

Statistical analysis of the February 2022 Appendix IV data was completed using the GWPSs established according to 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). The following SSLs were identified:

Selenium: YGWC-38 and PZ-37

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). Statistically significant trends were identified for the following well/constituent pairs:

Decreasing trends: Beryllium: YGWC-38
Selenium: YGWC-38

As a result of GAEPD's adoption of the federal GWPS in April 2022, YGWC-42 no longer exhibits an SSL for lithium. Beryllium concentrations at YGWC-38 have been decreasing since 2018 and below the GWPS since 2020. The confidence interval constructed for YGWC-38 beryllium using the eight most recent observations (August 2019 to February 2022) does not indicate an SSL exceedance of the GWPS. Sanitas™ statistical output data for calculation of site-specific background concentrations (interwell tolerance limits) and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix D**.

5 Monitoring Program Status

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in January 2018 for AP-3, A, B, and B'. SSLs of Appendix IV parameters were identified for the multi-unit network during the 2019 assessment monitoring events. The R6 CCR Landfill was placed in assessment monitoring following the initial detection monitoring event in March 2019, and assessment monitoring was initiated with the second 2019 semiannual monitoring event. Pursuant to 40 CFR § 257.96(b), Georgia Power will continue to monitor groundwater at AP-3, A, B, B', and the R6 CCR Landfill in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 while ACM efforts are implemented to evaluate SSL concentrations of selenium.

Horizontal and vertical delineation of current and historical SSLs of beryllium, cobalt, and selenium is complete.

6 Conclusions and Recommendations

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's 40 CFR §257.95 and GAEPD's Rule 391-3-4-.10. The groundwater flow direction interpreted during this event is consistent with historical evaluations. Statistical evaluations of groundwater monitoring data for the combined monitoring unit AP-3, A, B, B', and the R6 Landfill identified SSLs of selenium in well YGWC-38 and well PZ-37. Delineation data for selenium SSLs provide spatial and vertical delineation to concentrations below the GWPSs. A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022 under separate cover (Arcadis 2022).

Assessment monitoring at AP-3, A, B, B', and the R6 CCR Landfill will continue pursuant to 40 CFR § 257.95. In addition, ACM efforts of the multi-unit site will continue as required by 40 CFR § 257.96. The next assessment monitoring event is scheduled for August 2022. The August semiannual monitoring event will be a combined event to meet the requirements of GAEPD Rule 391-3-4-.10(6) and 40 CFR §§ 257.95(b) and (d)(1) and will include sampling and analysis of all Appendix III and IV constituents.

7 References

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Tables

Table 1A
Monitoring Well Network Summary
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Installation Date	Top of Casing Elevation (ft)	Depth to Bottom (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Hydraulic Location
Upgradient Wells							
YGWA-4I	5/21/2014	784.21	48.81	735.40	38.51	745.70	Upgradient
YGWA-5I	5/21/2014	784.54	58.94	725.60	48.64	735.90	Upgradient
YGWA-5D	5/21/2014	784.53	129.13	655.40	78.83	706.00	Upgradient
YGWA-17S	9/10/2015	783.05	39.85	743.20	29.55	753.20	Upgradient
YGWA-18S	9/8/2015	790.57	39.97	750.60	29.97	760.90	Upgradient
YGWA-18I	9/8/2015	790.57	79.97	710.60	69.67	720.90	Upgradient
YGWA-20S	9/29/2015	767.12	29.52	737.60	19.22	747.90	Upgradient
YGWA-21I	9/28/2015	783.70	79.90	703.80	69.60	714.10	Upgradient
YGWA-39	7/7/2016	818.19	68.59	749.60	58.09	760.10	Upgradient
YGWA-40	7/7/2016	815.73	48.23	767.50	37.73	778.00	Upgradient
YGWA-1I	5/20/2014	836.60	53.60	783.00	43.30	793.30	Upgradient
YGWA-1D	5/20/2014	837.25	128.85	708.40	78.05	759.20	Upgradient
YGWA-2I	5/20/2014	866.25	63.75	802.50	53.45	812.80	Upgradient
YGWA-3I	5/20/2014	796.55	59.05	737.50	48.85	747.70	Upgradient
YGWA-3D	5/20/2014	796.78	134.18	662.60	83.88	712.90	Upgradient
YGWA-14S	5/20/2014	748.76	34.96	713.80	24.66	724.10	Upgradient
YGWA-30I	9/23/2015	762.58	59.48	703.10	49.18	713.40	Upgradient
YGWA-47	7/11/2016	758.22	59.19	696.41	48.62	709.60	Upgradient
GWA-2	4/12/2007	805.62	52.02	753.60	41.82	763.80	Upgradient
AP-3, A, B and B'							
YGWC-23S	9/21/2015	764.95	38.91	726.00	28.61	736.30	Downgradient
YGWC-24SA	6/4/2020	765.00	57.00	708.00	47.00	718.00	Downgradient
YGWC-36A	9/22/2020	740.88	51.20	689.68	41.18	699.70	Downgradient
YGWC-49	7/13/2016	782.73	78.53	704.20	67.63	715.10	Downgradient
R6 CCR Landfill							
YGWC-38	7/23/2016	799.69	49.59	749.10	39.59	760.10	Downgradient
YGWC-41	7/8/2016	803.92	66.82	736.60	56.82	747.10	Downgradient
YGWC-42	7/8/2016	797.86	59.76	738.10	49.36	748.50	Downgradient
YGWC-43	7/9/2016	744.96	79.66	665.30	69.16	675.80	Downgradient

Notes:
Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988) based on June 2020 survey.

Acronyms and Abbreviations:
bTOC = below top of casing
ft = feet

Table 1B
Non- Network Well Summary
2022 Semiannual Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Installation Date	Top of Casing Elevation (ft)	Depth to Bottom (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Purpose
AP-3, A, B and B'							
YGWA-6S	5/19/2014	782.47	39.87	742.60	29.57	752.90	Piezometer
YGWA-6I	5/19/2014	782.73	69.03	713.70	58.73	724.00	Piezometer
YAMW-1	9/19/2018	743.83	69.93	673.90	59.93	683.90	Downgradient
PZ-04S	5/21/2014	784.25	32.75	751.50	22.45	761.80	Piezometer
PZ-05S	5/21/2014	784.64	41.94	742.70	31.64	753.00	Piezometer
PZ-06D	5/19/2014	782.02	134.02	648.00	83.72	698.30	Piezometer
PZ-24IA	6/3/2020	764.33	89.53	674.80	79.53	684.80	Piezometer
PZ-35	7/20/2016	743.81	50.01	693.80	38.91	704.90	Downgradient
PZ-48	7/11/2016	779.83	58.73	721.10	48.43	731.40	Piezometer
R6 CCR Landfill							
PZ-37	7/6/2016	760.78	49.78	711.00	39.28	721.50	Piezometer
PZ-37D	4/16/2021	761.12	202.30	558.80	192.30	568.80	Piezometer
PZ-51	11/8/2019	744.30	36.32	707.98	26.32	717.98	Piezometer
PZ-52D	9/28/2021	762.79	94.89	677.50	84.89	677.90	Piezometer
PZ-53D	9/28/2021	762.80	162.90	599.50	152.90	609.90	Piezometer
YAMW-2	11/12/2019	781.04	46.48	734.56	36.48	744.56	Downgradient
YAMW-3	11/6/2019	796.05	91.44	704.61	81.44	714.61	Downgradient
YAMW-4	11/7/2019	805.59	96.55	709.04	86.55	719.04	Downgradient
YAMW-5	11/13/2019	788.90	90.34	698.56	80.34	708.56	Downgradient

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

Acronyms and Abbreviations:
bTOC = below top of casing
ft = feet

Table 2
Groundwater Sampling Plan
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Hydraulic Location	2022 First Semiannual Sampling [1]
		February 8-11, 2022
AP-3, A, B and B'		
YGWA-4I	Upgradient	X
YGWA-5I	Upgradient	X
YGWA-5D	Upgradient	X
YGWA-17S	Upgradient	X
YGWA-18S	Upgradient	X
YGWA-18I	Upgradient	X
YGWA-20S	Upgradient	X
YGWA-21I	Upgradient	X
YGWA-47	Upgradient [2]	X
GWA-2	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-23S	Downgradient	X
YGWC-24SA	Downgradient	X
YGWC-36A	Downgradient	X
YGWC-49	Downgradient	X
YAMW-1	Downgradient	X
PZ-35	Downgradient	X
R6 CCR Landfill		
YGWA-39	Upgradient	X
YGWA-40	Upgradient	X
YGWC-38	Downgradient	X
YGWC-41	Downgradient	X
YGWC-42	Downgradient	X
YGWC-43	Downgradient	X
YAMW-2	Downgradient	X
YAMW-3	Downgradient	X
YAMW-4	Downgradient	X
YAMW-5	Downgradient	X
PZ-37	Downgradient	X
PZ-37D	Downgradient	X
PZ-51	Downgradient	X
PZ-52D	Downgradient	X

Notes:

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

2. Pooled upgradient wells

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

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

Table 3
Summary of Groundwater Elevations - February 2022
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
Downgradient Wells				
YGWC-23S	2/7/2022	764.95	16.32	748.63
YGWC-24SA	2/7/2022	765.00	27.72	737.28
YGWC-36A	2/7/2022	740.88	8.77	732.11
YGWC-38	2/7/2022	799.69	30.40	769.29
YGWC-41	2/7/2022	803.92	28.42	775.50
YGWC-42	2/7/2022	797.86	28.89	768.97
YGWC-43	2/7/2022	744.96	21.54	723.42
YGWC-49	2/7/2022	782.73	32.11	750.62
PZ-35	2/7/2022	743.81	10.24	733.57
PZ-04S	2/7/2022	784.25	23.80	760.45
PZ-05S	2/7/2022	784.64	18.14	766.50
YGWA-6S	2/7/2022	782.47	18.91	763.56
YGWA-6I	2/7/2022	782.73	19.22	763.51
PZ-06D	2/7/2022	782.02	21.98	760.04
PZ-24IA	2/7/2022	764.33	28.20	736.13
PZ-37	2/7/2022	760.78	11.38	749.40
PZ-37D	2/7/2022	761.12	4.22	756.90
PZ-48	2/7/2022	799.83	20.28	779.55
PZ-51	2/7/2022	744.30	9.72	734.58
PZ-52D	2/7/2022	762.79	5.89	756.90
PZ-53D	2/7/2022	762.80	5.69	757.11
YAMW-1	2/7/2022	743.83	10.28	733.55
YAMW-2	2/7/2022	781.04	21.20	759.84
YAMW-3	2/7/2022	796.05	36.31	759.74
YAMW-4	2/7/2022	805.59	31.89	773.70
YAMW-5	2/7/2022	788.90	13.66	775.24
YGWA-20S	2/7/2022	767.12	11.00	756.12
Upgradient Wells				
YGWA-4I	2/7/2022	784.21	22.29	761.92
YGWA-5I	2/7/2022	784.54	17.96	766.58
YGWA-5D	2/7/2022	784.53	19.54	764.99
YGWA-17S	2/7/2022	783.05	11.74	771.31
YGWA-18S	2/7/2022	790.57	19.81	770.76
YGWA-18I	2/7/2022	790.57	23.05	767.52
YGWA-21I	2/7/2022	783.70	30.18	753.52
YGWA-39	2/7/2022	818.19	17.62	800.57
YGWA-40	2/7/2022	815.73	22.71	793.02
YGWA-1I	2/7/2022	836.60	37.90	798.70
YGWA-1D	2/7/2022	837.25	48.94	788.31
YGWA-2I	2/7/2022	866.25	44.92	821.33
YGWA-3I	2/7/2022	796.55	52.35	744.20
YGWA-3D	2/7/2022	796.78	30.28	766.50
YGWA-14S	2/8/2022	748.76	18.58	730.18
YGWA-30I	2/8/2022	762.58	43.98	718.60
YGWA-47	2/7/2022	758.22	34.83	723.39
GWA-2	2/7/2022	805.62	36.39	769.23

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

Acronyms and Abbreviations:
bTOC = below top of casing
ft = feet
TOC = top of casing

Table 4
Groundwater Flow Velocity Calculations - February 2022
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

ARCADIS

Equation

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

where:

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

Values Used in Calculation

Value			Source
K_{max}:	3.70E-03	cm/sec	See note 1
	10	ft/day	
K_{min}:	9.70E-05	cm/sec	
	0.28	ft/day	
K_{avg}:	2.90E-04	cm/sec	
	0.8	ft/day	
Distance from:			
YGWA-40 to YGWA-42	1,098	feet	
YGWC-49 to PZ-24I	1,002	feet	
Groundwater Elevation			Date Collected:
YGWA-40	793.02	feet	February 2022
YGWC-42	768.97		
YGWC-49	750.62		
PZ-24IA	736.65		
			Hydraulic gradient from:
i_1 = 0.022		unitless	YGWA-40 to YGWC-42 (Feb. 2022)
i_2 = 0.014		unitless	YGWC-49 to PZ-24I (Feb. 2022)
i_{avg} = 0.018		unitless	Average
n_e = 0.20		unitless	See note 2

Minimum Linear Flow Velocity
February 2022

$$V_{min} = \frac{(0.28)\,(0.018)}{0.20}$$

V_{min} = 0.03 ft/day, or 11 ft/year

Maximum Linear Flow Velocity
February 2022

$$V_{max} = \frac{(10)\,(0.018)}{0.20}$$

V_{max} = 0.9 ft/day, or 329 ft/year

Average Linear Flow Velocity
February 2022

$$V_{avg} = \frac{(0.8)(0.018)}{0.20}$$

V_{avg} = 0.07 ft/day, or 26 ft/year

Notes:

1. Slug tests performed by Atlantic Coast Consulting, Inc. at AP-3/B'B'/R6 (2014-2017). Geomean of test results used for Kavg

2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989).

Table 5
Summary of Groundwater Monitoring Parameters
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates AP-3, A, B, B' and R6 CCR Landfill

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 6a
Groundwater Analytical Data - February 2022
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

	Analyte	YGWC-23S	YGWC-24SA	YGWC-36A	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	PZ-37D
		2/10/2022	2/10/2022	2/11/2022	2/10/2022	2/8/2022	2/10/2022	2/8/2022	2/8/2022	2/10/2022	2/10/2022	2/11/2022
Appendix III	pH	5.51	4.66	5.58	4.85	5.07	5.57	5.82	5.79	5.35	4.93	7.84
	Boron	1.5	< 0.0086	0.019 J	5.4	4.0	14.4	2.3	< 0.0086	0.054	9.5	0.44
	Calcium	11.8	2.2	4.6	68.9	15.0	74.4	9.9	12.7	8.8	106	49.0
	Chloride	1.9	8.7	6.6	4.0	3.5	3.3	2.1	4.2	5.6	4.2	12.5
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.066 J	< 0.050	< 0.050	< 0.050	0.17
	Sulfate	78.7	< 0.50	16.4	290	109	485	133	73.9	42.6	452	115
	Total Dissolved Solids	180	78.0	81.0	541	226	882	294	164	130	798	382
Appendix IV	Antimony	< 0.00078	< 0.00078	0.0023 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	0.0025 J	0.0024 J	0.0014 J	0.0017 J	0.0021 J	0.0026 J	0.0022 J	< 0.0011	0.0018 J	0.0017 J	< 0.0011
	Barium	0.058	0.026	0.044	0.016	0.021	0.026	0.029	0.070	0.074	0.029	0.013
	Beryllium	0.00023 J	0.00016 J	0.00043 J	0.0027	0.0016	0.000061 J	0.00037 J	0.00015 J	0.00055	0.0010	< 0.000054
	Cadmium	< 0.00011	< 0.00011	< 0.00011	0.0011	0.00012 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00093	< 0.00011
	Chromium	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0021 J	< 0.0011	< 0.0011	< 0.0011
	Cobalt	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	0.0017 J	0.00045 J	< 0.00039	< 0.00039	0.0036 J	< 0.00039
	Lead	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	0.0029 J	< 0.00073	0.00093 J	0.0068 J	0.0023 J	0.052	0.016 J	0.0036 J	0.0021 J	0.017 J	0.0087 J
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.00080 J	0.0020 J	< 0.00074	< 0.00074	< 0.00074	0.0037 J
	Combined Radium - 226/228	1.31 U	1.14 U	1.35 U	1.08 U	0.989 U	1.14 U	3.11	1.10 U	2.19 U	1.46 U	1.11 U
	Selenium	0.039	< 0.0014	< 0.0014	0.064	0.031	0.044	< 0.0014	0.0075	0.0030 J	0.20	< 0.0014
	Thallium	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

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

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

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

Laboratory Qualifiers:

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

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

Table 6a
Groundwater Analytical Data - February 2022
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

	Analyte	PZ-51	PZ-52D	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
		2/10/2022	2/11/2022	2/10/2022	2/10/2022	2/10/2022	2/10/2022	2/10/2022
Appendix III	pH	4.46	6.40	5.80	5.64	5.93	6.10	5.22
	Boron	6.8	0.84	0.36	0.022 J	7.7	3.0	4.9
	Calcium	54.7	27.3	21.5	1.3	29.4	11.6	40.8
	Chloride	4.2	6.7	5.3	2.5	3.2	1.4	3.9
	Fluoride	0.10	0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	306	209	120	7.1	305	160	276
	Total Dissolved Solids	574	456	281	48.0	606	346	499
Appendix IV	Antimony	< 0.0078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	0.0013 J	0.0014 J	0.0023 J	< 0.0011	0.0038 J	0.0026 J	0.0024 J
	Barium	0.017	0.032	0.084	0.0074	0.038	0.0033 J	0.034
	Beryllium	0.0033	0.000059 J	0.00016 J	0.000074 J	0.000078 J	< 0.000054	0.00013 J
	Cadmium	0.0019	< 0.00011	0.00018 J	< 0.00011	< 0.00011	< 0.00011	0.00022 J
	Chromium	< 0.0011	0.0011 J	0.0013 J	< 0.0011	0.0011 J	< 0.0011	0.0016 J
	Cobalt	0.033	0.0011 J	0.011	0.00052 J	0.16	0.00044 J	< 0.00039
	Lead	< 0.0089	0.0031	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	0.0060 J	0.015 J	0.014 J	< 0.00073	0.054	0.036	0.015 J
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	0.011	0.00089 J	< 0.00074	0.0036 J	0.0076 J	< 0.00074
	Combined Radium - 226/228	1.67 U	1.52	1.82 U	1.36 U	1.31 U	1.45 U	1.34 U
	Selenium	0.029	0.0025 J	0.0034 J	< 0.0014	< 0.0014	0.019	0.057
	Thallium	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

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

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

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

Laboratory Qualifiers:

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

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

Table 6b
Upgradient Groundwater Analytical Data - February 2022
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	GWA-2 GWA-2_20220208 2/8/2022	YGWA-1D YGWA-1D_20220209 2/9/2022	YGWA-1I YGWA-1I_20220209 2/9/2022	YGWA-2I YGWA-2I_20220209 2/9/2022	YGWA-3I YGWA-3I_20220209 2/9/2022	YGWA-3D YGWA-3D_20220209 2/9/2022	YGWA-4I YGWA-4I_20220211 2/11/2022
Appendix III	pH	SU	5.83	7.12	6.24	5.89	7.66	7.97	5.95
	Boron	mg/l	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.010 J	< 0.040
	Calcium	mg/l	25.6	14.9	2.1	23.4	23.7	30.3	7.5
	Chloride	mg/l	5.7	1.0	1.3	1.0 J	1.1	1.1	4.1
	Fluoride	mg/l	0.064 J	0.057	< 0.10	0.094 J	0.097 J	0.43	< 0.10
	Sulfate	mg/l	107	9.3	5.1	18.0	16.0	7.2	7.7
	Total Dissolved Solids	mg/l	283	105	57.0	156	145	154	102
Appendix IV	Antimony	mg/l	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	0.0018 J	< 0.0030
	Arsenic	mg/l	0.0033 J	0.0031 J	0.0033 J	0.0037 J	0.0018 J	0.0020 J	0.0014 J
	Barium	mg/l	0.037	0.0067	0.0088	0.0029 J	0.0031 J	0.0051	0.013
	Beryllium	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	Cadmium	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	Chromium	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	Cobalt	mg/l	0.072	0.00072 J	0.0023 J	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	Lead	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	Lithium	mg/l	0.0031 J	0.013 J	0.0027 J	0.0060 J	0.021 J	0.026 J	0.012 J
	Mercury	mg/l	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	Molybdenum	mg/l	< 0.010	0.0093 J	0.0055 J	0.0057 J	0.0087 J	0.013	< 0.010
	Combined Radium - 226/228	pCi/l	< 0.462	1.19	< 0.422	< 0.894	1.91	3.28	0.996
	Selenium	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	Thallium	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Notes:

1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

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

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

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

Laboratory Qualifiers:

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

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

Table 6b
Upgradient Groundwater Analytical Data - February 2022
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	YGWA-5D YGWA-5D_20220210 2/10/2022	YGWA-5I YGWA-5I_20220210 2/10/2022	YGWA-14S YGWA-14S_20220210 2/10/2022	YGWA-17S YGWA-17S_20220209 2/9/2022	YGWA-18I YGWA-18I_20220209 2/9/2022	YGWA-18S YGWA-18S_20220209 2/9/2022
Appendix III	pH	SU	6.99	5.14	4.50	5.53	5.98	5.28
	Boron	mg/l	0.011 J	< 0.040	0.020 J	0.0098 J	< 0.040	< 0.040
	Calcium	mg/l	24.8	2.5	1.3	2.8	5.1	0.87 J
	Chloride	mg/l	3.2	4.4	4.7	10.9	7.5	7.0
	Fluoride	mg/l	0.055 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	Sulfate	mg/l	4.9	2.4	6.2	4.8	0.51 J	1.1
	Total Dissolved Solids	mg/l	127	77.0	56.0	81.0	103	60.0
Appendix IV	Antimony	mg/l	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
	Arsenic	mg/l	0.0040 J	0.0016 J	0.0016 J	0.0024 J	0.0022 J	0.0024 J
	Barium	mg/l	0.0084	0.020	0.0088	0.017	0.021	0.014
	Beryllium	mg/l	< 0.00050	< 0.00050	0.00025 J	0.00011 J	< 0.00050	0.000089 J
	Cadmium	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	Chromium	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0014 J
	Cobalt	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	Lead	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	Lithium	mg/l	0.0076 J	0.0036 J	< 0.030	< 0.030	0.0032 J	0.0015 J
	Mercury	mg/l	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	Molybdenum	mg/l	0.00096 J	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
	Combined Radium - 226/228	pCi/l	3.33	< 0.375	< 0	< 0.133	< 0.571	< 0.0618
	Selenium	mg/l	< 0.0050	< 0.0050	0.0014 J	< 0.0050	< 0.0050	< 0.0050
	Thallium	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Notes:

1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

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

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

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

Laboratory Qualifiers:

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

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

Table 6b
Upgradient Groundwater Analytical Data - February 2022
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	YGWA-20S YGWA-20S_20220209 2/9/2022	YGWA-21I YGWA-21I_20220209 2/9/2022	YGWA-30I YGWA-30I_20220211 2/11/2022	YGWA-39 YGWA-39_20220208 2/8/2022	YGWA-40 YGWA-40_20220208 2/8/2022	YGWA-47 YGWA-47_20220208 2/8/2022
Appendix III	pH	SU	5.91	6.84	5.59	5.78	5.26	5.40
	Boron	mg/l	< 0.040	< 0.040	< 0.040	0.13	0.074	0.015 J
	Calcium	mg/l	2.3	9.8	1.5	15.2	6.0	9.4
	Chloride	mg/l	2.8	1.7	2.1	7.4	6.2	3.2
	Fluoride	mg/l	< 0.10	0.10	< 0.10	0.052 J	< 0.10	< 0.10
	Sulfate	mg/l	< 1.0	3.9	2.8	14.6	17.9	50.9
	Total Dissolved Solids	mg/l	72.0	131	66.0	248	93.0	151
Appendix IV	Antimony	mg/l	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
	Arsenic	mg/l	0.0021 J	0.0036 J	0.0014 J	0.0034 J	0.0030 J	0.0027 J
	Barium	mg/l	0.014	0.011	0.0077	0.041	0.039	0.030
	Beryllium	mg/l	0.000077 J	< 0.00050	< 0.00050	< 0.00050	0.00028 J	0.000056 J
	Cadmium	mg/l	< 0.00050	< 0.00050	< 0.00050	0.00063	< 0.00050	< 0.00050
	Chromium	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	Cobalt	mg/l	< 0.0050	0.0078	0.0038 J	0.0012 J	< 0.0050	0.0013 J
	Lead	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	Lithium	mg/l	0.00082 J	0.0061 J	0.0014 J	0.0080 J	0.00076 J	0.0039 J
	Mercury	mg/l	< 0.00020	< 0.00020	< 0.00020	< 0.00020	0.00013 J	< 0.00020
	Molybdenum	mg/l	< 0.010	< 0.010	< 0.010	0.0035 J	< 0.010	< 0.010
	Combined Radium - 226/228	pCi/l	< 0.504	1.94	< 0.268	0.834	< 0.534	< 0.400
	Selenium	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0014 J	< 0.0050
	Thallium	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Notes:

1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

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

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

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

Laboratory Qualifiers:

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

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

Table 7
Background Levels and Groundwater Protection Standards
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Constituent	Units	Background	GWPS
February 2022 (AP-3, A, B, B', R6 Landfill)			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.071	2
Beryllium	mg/L	0.0005	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 [3]
Fluoride	mg/L	0.680	4
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.030	0.040
Mercury	mg/L	0.0002	0.002
Molybdenum	mg/L	0.014	0.100
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 [3]

Notes:

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

2. GWPS = Groundwater Protection Standard per 40 CFR §257.95(h). On February 22, 2022, the GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS for cobalt, lead, molydenum, and lithium.

3. 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:

mg/L = millgrams per liter

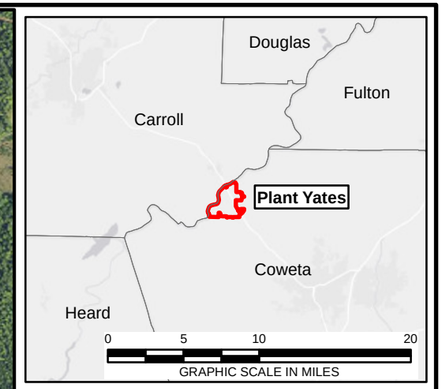
pCi/L = picocuries per liter

Figures

84°55'30"W 84°55'20"W 84°55'10"W 84°55'0"W 84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W 84°52'30"W

33°28'40"N
33°28'30"N
33°28'20"N
33°28'10"N
33°28'0"N
33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N
33°26'40"N

FORMER ASH POND A
ASH POND B
ASH POND B'
R6 ASH DISPOSAL AREA
ASH POND 3
ASH MANAGEMENT AREA



LEGEND

APPROXIMATE PROPERTY BOUNDARY
PERMITTED UNIT BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: JANUARY 10, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

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

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W

33°28'10"N
33°28'0"N
33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N

YGWA-47
YGWC-52
PZ-09S
PZ-09I
YGWC-44
YGWC-45
FORMER ASH POND 1
GWC-2R
GWC-4R
GWC-1R
GWC-6R
GWC-3R
GWC-5R
GWA-2
FORMER GYPSUM STACK LANDFILL
PZ-53
YGWC-46A
PZ-10I
PZ-10S
YGWA-6I
PZ-06D
YGWA-6S
PZ-48
YGWC-26I
YGWC-26S
AP-2 WEST
YGWC-27S
YGWC-27I
ASH POND 2
YGWC-28I
YGWC-28S
YGWC-29I
FORMER ASH POND A
YGWC-49
PZ-25I
PZ-25S
PZ-24IA
YGWC-24SA
YAMW-1
YGWC-36A
PZ-35
AP-2 AMAX COVE
YGWA-30I
PZ-31S
ASH POND B
AMA - PERIMETER ROAD
ASH POND B'
PZ-13S
PZ-13I
YGWA-14S
PZ-14I
PZ-51
YGWC-43
YGWA-17S
R6 ASH DISPOSAL AREA
YGWA-18S
YGWA-18I
YGWA-1I
YGWA-1D
PZ-01S
YAMW-2
YAMW-3
YGWC-42
YAMW-4
ASH POND 3
EAST COVE
YGWA-3I
YGWA-3D
PZ-03S
YGWC-41
PZ-37D
PZ-37
PZ-53D
YGWC-23S
PZ-52D
YGWA-2I
YAMW-5
YGWC-38
ASH MANAGEMENT AREA
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
SOUTH COVE
PZ-04S
YGWA-5I
YGWA-4I
YGWA-5D
PZ-05S

LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 8/31/2022

NOTE:
AERIAL IMAGE SOURCES: JANUARY 10, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

ARCADIS

FIGURE
2

84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W

33°28'0"N
33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N

YGWA-47
GWA-2
PZ-06D
YGWA-6S
YGWA-6I
PZ-48
YGWC-49
FORMER ASH POND A
PZ-24IA
YGWC-24SA
PZ-24IB
YGWC-24SB
YAMW-1
YGWC-36A
PZ-35
ASH POND B
YGWA-30I
YGWC-50
YGWA-14S
ASH POND B'
YGWA-17S
PZ-51
YGWC-43
R6 ASH DISPOSAL AREA
YGWA-18S
YGWA-18I
YGWA-1I
YGWA-1D
YAMW-2
YAMW-3
YGWC-42
PZ-37
PZ-37D
YAMW-4
YGWC-41
PZ-52D
PZ-53D
YGWC-23S
ASH POND 3
YGWA-3I
YGWA-3D
YGWA-2I
YAMW-5
YGWC-38
ASH MANAGEMENT AREA
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
YGWA-4I
PZ-04S
PZ-05S
YGWA-5I
YGWA-5D

LEGEND

- PERMITTED UNIT BOUNDARY
- 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
- ABANDONED MONITORING WELL

NOTE:
1. YGWC-24SA AND PZ-24IA WERE ABANDONED ON MAY 25, 2022 TO ACCOMMODATE ROAD RE-ALIGNMENT CONSTRUCTION WORK ON DYER ROAD.

2. AERIAL IMAGE SOURCES: JANUARY 10, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

0 350 700 1,400
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA

2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

ARCADIS

FIGURE
3

84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W

33°28'0"N
33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N
33°26'40"N

YGWA-47 723.39
YGWC-52 718.38
PZ-09I 695.70
PZ-09S 695.90
YGWC-44 708.89
YGWC-45 697.43
FORMER ASH POND 1
PZ-53 695.85
YGWC-46A 695.85
PZ-10I 688.40*
PZ-10S 694.09
GWC-4R 742.39
GWC-2R 741.83
GWC-3R 748.05
GWC-6R 754.90
GWC-5R 754.53
GWC-1R 752.03
Former Gypsum Stack Landfill
GWA-2 769.23
YGWA-6S 763.56
PZ-06D 760.04
YGWA-6I 763.51
YGWC-26S 690.92
YGWC-26I 689.21
YGWC-27I 686.49
YGWC-27S 686.76
YGWC-28I 688.48
YGWC-28S 690.07
YGWC-29I 689.47
PZ-48 779.55
YGWC-49 750.62
PZ-24IA 736.13
YGWC-24SA 737.28
FORMER ASH POND A
PZ-25I 720.36
PZ-25S 723.53
PZ-35 733.57
YAMW-1 733.55
ASH POND 2
YGWA-30I 718.60
YGWC-36A 732.11
ASH POND B
PZ-31S 712.47
PZ-13S 771.42
PZ-13I 767.57
YGWA-14S 730.18
PZ-14I 729.48
PZ-51 734.58
YGWC-43 723.42
ASH POND B'
YGWA-17S 771.31
YGWA-18S 770.76
YGWA-18I 767.52
PZ-01S 804.00
YGWA-1I 798.70
YGWA-1D 788.31
YAMW-3 759.74
R6 ASH DISPOSAL AREA
YGWC-42 768.97
YAMW-2 759.84
YGWA-3I 744.20
PZ-03S 759.92
YGWA-3D 766.50
YAMW-4 773.70
YGWC-41 775.50
PZ-52D 756.90
PZ-53D 757.11
PZ-37 749.40
PZ-37D 756.90
YGWC-23S 748.63
YAMW-5 775.24
ASH POND 3
YGWA-2I 821.33
YGWC-38 769.29
YGWA-40 793.02
YGWA-39 800.57
ASH MANAGEMENT AREA
YGWA-21I 753.52
YGWA-20S 756.12
YGWA-4I 761.92
PZ-04S 760.45
PZ-05S 766.71
YGWA-5I 766.58
YGWA-5D 764.99

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

LEGEND

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

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 10, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

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

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 7, 2022.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES NEWNAN, GA

2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP FEBRUARY 2022

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FIGURE **4**

84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W

33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N

740 750 760 770 730 720 710 730 720 710 740 750 760 770 780 790 800 800 790 780

PZ-06D 760.04
YGWA-6S 763.56
YGWA-6I 763.51
PZ-48 779.55
YGWC-49 750.62
FORMER ASH POND A
PZ-24IA 736.13
YGWC-24SA 737.28
ASH POND 2
PZ-35 733.57
YAMW-1 733.55
YGWC-36A 732.11
ASH POND B
ASH POND B'
PZ-51 734.58
YGWC-43 723.42
R6 ASH DISPOSAL AREA
YAMW-2 759.84
YAMW-3 759.74
YGWC-42 768.97
YAMW-4 773.70
YGWC-41 775.50
PZ-52D 756.90
PZ-53D 757.11
PZ-37 749.40
PZ-37D 756.90
YGWC-23S 748.63
YAMW-5 775.24
YGWC-38 769.29
ASH POND 3
ASH MANAGEMENT AREA
YGWA-40 793.02
YGWA-39 800.57
YGWA-17S 771.31
YGWA-18S 770.76
YGWA-18I 767.52
YGWA-21I 753.52
YGWA-20S 756.12
YGWA-4I 761.92
PZ-04S 760.45
PZ-05S 766.71
YGWA-5I 766.58
YGWA-5D 764.99

LEGEND

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

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 10, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

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

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 7, 2022.

0 350 700 1,400
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA

2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2022

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FIGURE **5**

Appendix A

Field Sampling and Well Inspection Forms (February 2022)

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/8/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Jessica Ware & Kim Lapszynski)	YSI 556 U82097X (Kim Lapszynski)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	NA*	100
Conductivity	us/cm	1409	8000	1409	NA*	8000
pH	S.U.	4.00	4.00	4.00	NA*	4.00
pH	S.U.	7.00	7.08	7.06	NA*	7.00
pH	S.U.	10.00	10.01	9.99	NA*	10.00
ORP	mV	220.0	252.1	220.0	NA*	232.0

HACH/Geotech Standard	Units	HACH	HACH U89261X	Geotech V94550X (Kim Lapszynski)	HACH
20	NTU	20.2	9.7	NA*	20.1
100	NTU	102	20	NA*	99.6
800	NTU	801	101	NA*	803
10 / <0.10	NTU	10.3	804	NA*	10.1

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Jessica Ware)	YSI 556 U82097X (Kim Lapszynski)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	NA*	100	100
Conductivity	us/cm	1409	1413	NA*	1409	8000
pH	S.U.	4.00	4.00	NA*	4.00	4.00
pH	S.U.	7.00	7.06	NA*	7.00	7.00
pH	S.U.	10.00	10.08	NA*	10.00	10.00
ORP	mV	220.0	237.8	NA*	220.0	232.0

HACH/Geotech Standard	Units	HACH	HACH U89261X	Geotech V94550X (Kim Lapszynski)	HACH
20	NTU	--	19.7	**	--
100	NTU	--	100	**	--
800	NTU	--	794	**	--
10 / <0.10	NTU	10.2	9.88	**	10.1

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- calibration not conducted

* Equipment not available or broken

** Mid-day Calibration was conducted but data not recorded

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/9/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	YSI 556 U82097X (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100.3	100
Conductivity	us/cm	1409	1413	1409	1407	1409
pH	S.U.	4.00	4.01	4..00	3.97	4.00
pH	S.U.	7.00	7.12	7.06	7.00	7.02
pH	S.U.	10.00	10.16	10.00	9.99	10.08
ORP	mV	220.0	256.8	220.0	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	19.9	20.0	20.2	19.9
100	NTU	99.6	100.0	101	99.8
800	NTU	791	800.0	800	797
10 / <0.10	NTU	10.0	< 0.10	9.25	9.18

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	YSI 556 U82097X (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	99.9	NA*
Conductivity	us/cm	1409	1413	1409	1411	NA*
pH	S.U.	4.00	--	4.00	4.02	NA*
pH	S.U.	7.00	7.00	7.02	7.01	NA*
pH	S.U.	10.00	--	10.08	9.92	NA*
ORP	mV	220.0	231	220.0	220.0	NA*

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	--	**	19.7	NA*
100	NTU	--	**	100	NA*
800	NTU	--	**	799	NA*
10 / <0.10	NTU	10.2	**	9.87	NA*

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- calibration not conducted

* Unable to Calibration due to long purge time at midday

** Mid-day Calibration was conducted but data not recorded

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/11/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100
Conductivity	us/cm	1409	1409	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.06	7.02	7.02
pH	S.U.	10.00	10.16	10.12	10.05
ORP	mV	220.0	220.0	220.0	220.0

HACH/Geotech Standard	Units	Geotech V100820X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	20.0	20.0	19.8
100	NTU	100.0	104	99.6
800	NTU	800.0	793	788
10 / <0.10	NTU	< 0.10	9.47	10.2

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	NA*	100	NA*
Conductivity	us/cm	1409	NA*	1409	NA*
pH	S.U.	4.00	NA*	4.00	NA*
pH	S.U.	7.00	NA*	7.02	NA*
pH	S.U.	10.00	NA*	10.04	NA*
ORP	mV	220.0	NA*	220.0	NA*

HACH/Geotech Standard	Units	Geotech (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	NA*	**	NA*
100	NTU	NA*	**	NA*
800	NTU	NA*	**	NA*
10 / <0.10	NTU	NA*	**	NA*

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

-- calibration not conducted

* Half day

** Mid-day Calibration was conducted but data not recorded

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/10/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	1409	1413	1409	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.06	7.06	7.06	7.02
pH	S.U.	10.00	10.12	10.12	10.08	10.08
ORP	mV	220.0	246.1	252.8	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	19.9	20.0	19.8	20.7
100	NTU	101	100.0	101	104
800	NTU	797	800.0	799	827
10 / <0.10	NTU	10.1	< 0.10	9.35	10

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	YSI 556 100686 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	1409	1413	1406	1409	1409
pH	S.U.	4.00	--	7.00	4.00	4.00
pH	S.U.	7.00	7.00	4.00	7.02	7.02
pH	S.U.	10.00	--	9.99	10.04	10.08
ORP	mV	220.0	230	220	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	--	**	19.9	**
100	NTU	--	**	102	**
800	NTU	--	**	788	**
10 / <0.10	NTU	9.96	**	9.57	9.94

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not conducted

** Mid-day Calibration was conducted but data not recorded

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA AP-3, A, B and B'
Date:	2/7/2022
Sampler:	Jessica Ware
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-4I	2/7/2022	11:16:00	22.29	48.81	--
PZ-04S	2/7/2022	11:25:00	23.80	33.33	--
PZ-05S	2/7/2022	11:29:00	17.93	41.94	--
YGWA-5I	2/7/2022	11:32:00	17.96	58.94	--
YGWA-5D	2/7/2022	11:34:00	19.54	129.13	--
YGWA-20S	2/7/2022	11:44:00	11.00	29.52	--
YGWA-21I	2/7/2022	11:53:00	30.18	79.90	1154 transducer removed to gauge well
YGWA-17S	2/7/2022	12:25:00	11.74	39.85	--
YGWA-18I	2/7/2022	12:35:00	23.05	79.97	--
YGWA-18S	2/7/2022	12:39:00	19.81	39.97	--
YGWA-6I	2/7/2022	12:51:00	19.22	69.03	--
YGWA-6S	2/7/2022	12:54:00	18.91	39.87	--
PZ-06D	2/7/2022	12:56:00	21.98	134.02	--
PZ-48	2/7/2022	13:01:00	20.28	58.73	Surrounded by thorns
YGWC-49	2/7/2022	13:07:00	32.11	78.53	--
PZ-24IA	2/7/2022	13:14:00	28.20	89.85	--
YGWC-24SA	2/7/2022	13:17:00	27.72	57.00	--
YAMW-1	2/7/2022	13:23:00	10.28	69.93	Transducer moved at 1325
PZ-35	2/7/2022	13:27:00	10.24	50.01	Transducer moved
PZ-37D	2/7/2022	14:23:00	4.22	202.44	--
YGWC-23S	2/7/2022	14:46:00	16.32	38.91	Transducer moved

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	2/7/2022
Sampler:	Jessica Ware
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-36A	2/7/2022	13:31:00	8.77	51.20	Transducer moved at 1332
YAMW-3	2/7/2022	13:44:00	36.31	91.44	--
YGWC-42	2/7/2022	13:47:00	28.89	59.76	--
YAMW-4	2/7/2022	13:52:00	31.89	96.55	--
YGWC-41	2/7/2022	13:55:00	28.42	67.32	--
YGWA-40	2/7/2022	14:00:00	22.71	48.23	--
YGWA-39	2/7/2022	14:05:00	17.62	68.59	--
PZ-53D	2/7/2022	14:18:00	5.89	160.00	--
PZ-52D	2/7/2022	14:22:00	5.69	92.00	--
PZ-37	2/7/2022	14:26:00	11.38	49.78	Transducer moved, metal well tag incorrectly labled
YGWC-38	2/7/2022	14:33:00	30.40	50.59	Transducer moved
YAMW-5	2/7/2022	14:40:00	13.66	90.34	--
YGWC-43	2/7/2022	14:59:00	21.54	79.66	--
PZ-51	2/7/2022	15:06:00	9.72	36.00	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	2/7/2022
Sampler:	Khalil Carson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YAMW-2	2/7/2022	15:20:00	21.20	46.48	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWC-38			**Date**	02/10/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	41.2 degrees F and Clear. The wind is blowing W/SW at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	39.59	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	30.41	**Total Depth (ft-bmp)**	50.59	**Water Column(ft)**	20.18	**Gallons in Well**	3.28
MP Elevation	799.69	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:50	**Well Volumes Purged**	0.43	**Sample ID**	YGWC-38	**Sampled by**	Kim Lapszynski
Purge Start	09:15	**Gallons Purged**	1.42	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:47						

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)
09:15:00	00:00	250	30.41	7.48	752.01	1.75	10.51	11.6	173.03
09:20:00	05:00	250	31.72	5.07	691.75	26.8	3.58	15.9	191.99
09:25:00	10:00	150	31.66	5.01	688.64	12.3	3.50	15.3	185.03
09:30:00	15:00	150	31.41	4.94	687.01	4.78	3.53	15.2	180.98
09:35:00	19:30	150	31.27	4.91	688.65	2.92		15.4	177.85
09:41:00	25:31	150	31.19	4.87	689.73	3.17		15.5	173.07
09:44:00	29:17	150	31.17	4.85	689.45	1.75		15.7	169.91

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments: Transducer in well.

0942 called Becky Steever about tech issues with Aqua Troll 600. During test an error message Sensor Changed- installed sensors are different than the sensors that were last connected Once reconnected stopped recording DO readings. Becky said to collect sample with readings recorded and call Insitu for tech support.

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: NA _____ Key Number To Well: NA _____

Groundwater Sampling Form

Project Number	30053438	**Well ID**	YGWC-43			**Date**	02/08/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	36.0 degrees F and Clear. The wind is blowing N at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.16	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.53	**Total Depth (ft-bmp)**	79.66	**Water Column(ft)**	58.13	**Gallons in Well**	9.45
MP Elevation	744.96	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:20	**Well Volumes Purged**	0.16	**Sample ID**	YGWC-43	**Sampled by**	Jessica Ware
Purge Start	09:51	**Gallons Purged**	1.52	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:32						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:51:00	00:00	150	21.53	6.65	199.43	0.72	6.02	14.4	-44.56
09:56:00	05:00	250	21.7	5.96	292.18	5.39	0.74	16.3	-122.23
10:01:00	10:00	250	21.74	5.86	361.43	6.51	0.26	16.5	-89.69
10:06:00	15:00	250	21.81	5.83	376.81	3.98	0.16	16.7	-90.70
10:11:00	20:00	250	21.83	5.81	382.39	1.63	0.13	16.7	-94.73
10:16:00	25:00	250	21.84	5.82	383.87	1.36	0.13	16.7	-99.81

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YAMW-3			**Date**	02/10/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	Sunny, clear, 67 degrees Fahrenheit			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	81.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	36.23	**Total Depth (ft-bmp)**	91.44	**Water Column(ft)**	55.21	**Gallons in Well**	8.97
MP Elevation	796.05	**Pump Intake (ft-bmp)**	86	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:35	**Well Volumes Purged**	0.20	**Sample ID**	YAMW-3	**Sampled by**	Jessica Ware
Purge Start	14:11	**Gallons Purged**	1.78	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:08						

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)
14:11:00	00:00	150	36.23	6.22	735.19	19.33	4.55	22.8	-290.52
14:16:00	05:00	150	36.77	5.76	939.43	6.6	0.66	18.8	-258.08
14:21:00	10:00	100	37.56	5.64	866.24	4.85	0.45	18.8	-243.06
14:26:00	15:00	100	37.91	5.65	900.99	7.7	0.41	19.4	-243.44
14:31:00	20:00	100	38.16	5.73	847.73	6.56	0.46	19.1	-246.3
14:36:00	25:00	100	38.43	5.79	816.18	6.78	0.46	18.9	-248.26
14:41:00	30:00	100	38.71	5.83	825.14	11.2	0.46	18.7	-250.04
14:46:00	35:00	100	38.96	5.86	767.6	6.45	0.44	19	-254.42
14:51:00	40:00	50	39.01	5.91	759.99	6.43	0.43	19.7	-257.75
14:56:00	45:00	50	39.06	5.95	750.59	6.58	0.45	20.1	-255.88
15:01:00	50:00	50	39.96	5.97	764.42	6.36	0.44	21.4	-258.53
15:06:00	55:00	50	39.81	5.99	743.48	6.33	0.44	22.1	-258.85
15:11:00	00:00	50	38.77	6.02	841.19	6.11	0.52	20.6	-257.89
15:16:00	05:00	50	38.83	5.99	818.16	6.03	0.53	20.8	-253.89
15:21:00	10:00	50	38.81	5.96	802.22	5.59	0.53	20.5	-247.69
15:26:00	15:00	50	38.73	5.94	784.24	4.33	0.51	20.3	-243.74
15:31:00	20:00	50	38.76	5.94	761.08	3.36	0.49	19.9	-239.72
15:36:00	25:00	50	38.76	5.93	803.02	3.83	0.45	20.1	-239.5

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YAMW-4			**Date**	02/10/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	Sunny, clear, 60 degrees Fahrenheit			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	86.59	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	31.81	**Total Depth (ft-bmp)**	96.55	**Water Column(ft)**	64.74	**Gallons in Well**	10.52
MP Elevation	805.59	**Pump Intake (ft-bmp)**	91.55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:00	**Well Volumes Purged**	0.08	**Sample ID**	YAMW-4	**Sampled by**	Jessica Ware
Purge Start	11:33	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:13						

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)
11:33:00	00:00	200	31.81	7.11	476.56	2.28	8.98	18	150.31
11:38:00	05:00	100	32.68	6.1	493.34	0.37	2.25	18.5	146.12
11:43:00	10:00	100	33.01	6.05	499.94	2.34	1.24	18.4	105.35
11:48:00	15:00	100	33.23	6.05	505.52	4.64	0.88	18.6	122.95
11:53:00	20:00	100	33.31	6.08	505.41	3.55	0.78	19.2	141.71
11:58:00	25:00	100	33.36	6.1	506.58	2.98	0.75	19.3	150.81

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	PZ-37			**Date**	02/10/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	60.3 degrees F and Clear. The wind is blowing W/NW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	39.28	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.41	**Total Depth (ft-bmp)**	49.78	**Water Column(ft)**	38.37	**Gallons in Well**	6.23
MP Elevation	760.78	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:05	**Well Volumes Purged**	0.49	**Sample ID**	PZ-37	**Sampled by**	Kim Lapszynski
Purge Start	12:14	**Gallons Purged**	3.07	**Replicate/ Code No.**	AMA-DUP-4	**Color**	Clear
Purge End	13:03						

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	250	11.41	5.94	1032.07	0.67	6.77	21.0	82.55
12:19:00	05:00	250	11.68	4.92	998.23	1.51	2.77	18.4	156.38
12:24:00	10:00	250	11.71	4.75	995.58	0.68	2.83	18.1	165.75
12:29:00	15:00	250	11.72	4.67	996.89	1.19	2.86	18.1	168.92
12:30:00	16:32	250	11.72	4.66	997.78	0.87		18.1	169.22
12:35:00	21:32	250	11.78	4.65	998.80	1.67		18.2	169.56
12:40:00	26:32	250	11.78	4.66	998.75	2.31		18.1	168.82
12:45:00	31:32	250	11.77	4.68	1002.46	1.90		17.9	167.75
12:50:00	36:32	250	11.77	4.73	1015.77	1.42		17.9	165.31
12:55:00	41:32	250	11.77	4.78	1024.95	1.25		18.0	162.76
13:00:00	46:32	250	11.77	4.83	1029.29	1.00		18.2	160.24

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	2	None
RAD 9315/9320	1L Plastic	4	HNO3
Cl, F, SO4	250 mL Plastic	2	None
Appendix III/IV Metals	250 mL Plastic	2	HNO3

Comments:

Switched to YSI 556(U82097Y) to record readings due to error message on Aqua Troll 600. Stopped recording DO readings in In-Situ

12:46 11.77', 17.32 degrees c, 1006us/cm, 3.84 mg/L, 4.93pH, 224.3mV, 2.16NTU
12:51 11.77', 17.25 degrees c, 1014 us/cm, 3.52mg/L, 4.92pH, 230.7 mV, 1.49NTU
1256 11.77', 17.25 degrees c, 1022 us/cm 3.34mg/L, 4.93pH, 233.9mV, 1.19NTU
1401: 11.77', 17.37 degrees c, 1030us/cm, 3.20mg/L, 4.93pH, 235.8mV, 1.16NTU

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YAMW-2			**Date**	02/10/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	Clear, sunny, 41 degrees Fahrenheit			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	36.44	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.15	**Total Depth (ft-bmp)**	46.48	**Water Column(ft)**	25.33	**Gallons in Well**	4.12
MP Elevation	781.04	**Pump Intake (ft-bmp)**	39	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:45	**Well Volumes Purged**	0.48	**Sample ID**	YAMW-2	**Sampled by**	Jessica Ware
Purge Start	09:12	**Gallons Purged**	1.98	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:55						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:12:00	00:00	250	21.15	6.45	69.7	1.03	9.96	10.6	185.14
09:17:00	05:00	250	21.31	5.46	60.81	7.36	4.14	15.1	187.21
09:22:00	10:00	250	21.34	5.48	60.29	7.73	3.64	15.4	192.2
09:27:00	15:00	250	21.32	5.51	59.71	3.37	3.61	15.4	201.39
09:32:00	20:00	250	21.36	5.59	59.21	2.07	3.64	15.5	208.36
09:37:00	25:00	250	21.33	5.61	59.07	2.13	3.67	15.5	217.15
09:42:00	30:00	250	21.36	5.64	58.48	2.94	3.71	15.5	222.29

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YAMW-3			**Date**	02/10/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	Sunny, clear, 67 degrees Fahrenheit			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	81.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	36.23	**Total Depth (ft-bmp)**	91.44	**Water Column(ft)**	55.21	**Gallons in Well**	8.97
MP Elevation	796.05	**Pump Intake (ft-bmp)**	86	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:35	**Well Volumes Purged**	0.20	**Sample ID**	YAMW-3	**Sampled by**	Jessica Ware
Purge Start	14:11	**Gallons Purged**	1.78	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:08						

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)
14:11:00	00:00	150	36.23	6.22	735.19	19.33	4.55	22.8	-290.52
14:16:00	05:00	150	36.77	5.76	939.43	6.6	0.66	18.8	-258.08
14:21:00	10:00	100	37.56	5.64	866.24	4.85	0.45	18.8	-243.06
14:26:00	15:00	100	37.91	5.65	900.99	7.7	0.41	19.4	-243.44
14:31:00	20:00	100	38.16	5.73	847.73	6.56	0.46	19.1	-246.3
14:36:00	25:00	100	38.43	5.79	816.18	6.78	0.46	18.9	-248.26
14:41:00	30:00	100	38.71	5.83	825.14	11.2	0.46	18.7	-250.04
14:46:00	35:00	100	38.96	5.86	767.6	6.45	0.44	19	-254.42
14:51:00	40:00	50	39.01	5.91	759.99	6.43	0.43	19.7	-257.75
14:56:00	45:00	50	39.06	5.95	750.59	6.58	0.45	20.1	-255.88
15:01:00	50:00	50	39.96	5.97	764.42	6.36	0.44	21.4	-258.53
15:06:00	55:00	50	39.81	5.99	743.48	6.33	0.44	22.1	-258.85
15:11:00	00:00	50	38.77	6.02	841.19	6.11	0.52	20.6	-257.89
15:16:00	05:00	50	38.83	5.99	818.16	6.03	0.53	20.8	-253.89
15:21:00	10:00	50	38.81	5.96	802.22	5.59	0.53	20.5	-247.69
15:26:00	15:00	50	38.73	5.94	784.24	4.33	0.51	20.3	-243.74
15:31:00	20:00	50	38.76	5.94	761.08	3.36	0.49	19.9	-239.72
15:36:00	25:00	50	38.76	5.93	803.02	3.83	0.45	20.1	-239.5

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments: Called Mark 15:00 dropped flow rate to 50mL/min

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWC-36A			**Date**	02/11/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	Sunny, clear, 41 degrees Fahrenheit			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	689.7	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	12.02	**Total Depth (ft-bmp)**	51.2	**Water Column(ft)**	39.18	**Gallons in Well**	6.37
MP Elevation	739.61	**Pump Intake (ft-bmp)**	46	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:19	**Well Volumes Purged**	0.68	**Sample ID**	YGWC-36A	**Sampled by**	Jessica Ware
Purge Start	09:12	**Gallons Purged**	4.36	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:13						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:12:00	00:00	250	12.02	6.07	105.21	164.95	6.89	16.1	162.39
09:17:00	05:00	250	12.33	5.54	114.62	140.5	4.61	17.3	156.22
09:22:00	10:00	250	12.16	5.56	110.91	76.6	4.46	17.1	157.05
09:27:00	15:00	250	12.18	5.57	108.17	34.5	4.36	17.3	150.55
09:32:00	20:00	250	12.15	5.57	107.84	17.6	4.34	17.4	150.36
09:37:00	25:00	250	12.23	5.57	106.83	11.4	4.38	17.4	153.25
09:42:00	30:00	250	12.21	5.56	104.14	8.67	4.4	17.5	151.14
09:47:00	35:00	200	12.14	5.56	101.28	7.44	4.36	17.5	151.65
09:52:00	40:00	100	12.06	5.56	99.34	7.33	4.33	17.5	153.82
09:57:00	45:00	100	12.03	5.56	99.67	7.38	4.34	17	159.79
10:02:00	50:00	50	11.93	5.56	99.65	8.14	4.34	16.9	161.54
10:07:00	55:00	50	11.94	5.57	99.61	7.97	4.37	16.7	165.19
10:12:00	00:00	50	11.96	5.57	100.53	8.07	4.39	16.8	167.38
10:17:00	05:00	50	11.96	5.57	101.47	8.93	4.43	16.9	168.99
10:22:00	10:00	50	11.97	5.57	102.2	9.65	4.44	17	170.39
10:27:00	15:00	100	11.98	5.57	102.79	9.95	4.44	16.9	173.17
10:32:00	20:00	100	11.93	5.57	100.8	9.88	4.33	17.4	173.78
10:37:00	25:00	100	11.94	5.57	100.32	9.33	4.22	18.1	174.9
10:42:00	30:00	100	12	5.58	99.72	9.04	4.38	18	172.7
10:47:00	35:00	100	11.97	5.58	100.7	10.01	4.38	17.7	175.12
10:52:00	40:00	100	11.98	5.58	101.41	9.67	4.3	19.2	174.35
10:57:00	45:00	100	12.04	5.58	101.48	11.4	4.33	18.1	176.76
11:02:00	50:00	100	12.02	5.59	102.54	9.24	4.33	18.1	179.2
11:07:00	55:00	100	11.99	5.58	102.25	8.98	4.34	18.3	181.26
11:12:00	00:00	100	12.01	5.58	101.4	8.58	4.29	18.2	183.42

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	PZ-52D			**Date**	02/11/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	63.0 degrees F and Clear. The wind is blowing SW at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	82	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.66	**Total Depth (ft-bmp)**	92	**Water Column(ft)**	87.34	**Gallons in Well**	14.19
MP Elevation	762.79	**Pump Intake (ft-bmp)**	87	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:00	**Well Volumes Purged**	0.14	**Sample ID**	PZ-52D	**Sampled by**	Kim Lapszynski, Jessica Ware
Purge Start	12:49	**Gallons Purged**	1.95	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:56						

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)
12:49:00	00:00	200	5.66	6.38	569.4	20.73	3.35	23.1	-99.57
12:54:00	05:00	200	6.23	6.49	647.96	29.3	0.6	18	-142.58
12:59:00	10:00	100	6.8	6.38	628.28	14.4	0.43	18.9	-147.99
13:04:00	15:00	100	6.85	6.37	627.97	12.6	0.54	19.2	-146.34
13:09:00	20:00	100	6.85	6.32	629.32	10.6	0.56	21.8	-143.72
13:14:00	25:00	100	6.82	6.36	627.04	9.69	0.77	19.8	-141.42
13:19:00	30:00	100	6.95	6.42	645.19	9.96	0.73	18.9	-139.91
13:24:00	35:00	100	7.1	6.45	653.23	9.39	0.61	18.9	-138.41
13:29:00	40:00	100	7.28	6.45	653.57	8.96	0.53	19	-136.84
13:34:00	45:00	100	7.38	6.44	643.56	8.15	0.5	19	-135.06
13:39:00	50:00	100	7.46	6.43	627.47	8.12	0.47	19.3	-134.18
13:44:00	55:00	100	7.53	6.43	618.82	7.4	0.45	18.9	-133.05
13:49:00	00:00	75	7.55	6.41	623.81	8.05	0.43	19.5	-130.88
13:54:00	05:00	75	7.58	6.4	604.59	8.02	0.42	19.7	-128.94

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YAMW-5			**Date**	02/10/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	Sunny, clear, 60 degrees			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	80.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	13.6	**Total Depth (ft-bmp)**	90.34	**Water Column(ft)**	76.74	**Gallons in Well**	12.47
MP Elevation	788.9	**Pump Intake (ft-bmp)**	85	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:30	**Well Volumes Purged**	0.12	**Sample ID**	YAMW-5	**Sampled by**	Kim Lapszynski
Purge Start	10:56	**Gallons Purged**	1.52	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:26						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:56:00	00:00	200	13.6	5.08	778.27	0	3.29	16.6	73.62
11:01:00	05:00	200	14.52	4.98	742.44	0	2.19	16.6	85.51
11:05:00	08:41	200		5	724.18	0.87	2.19	16.6	88.35
11:10:00	13:41	200	14.83	5.05	709.67	0.53	2.26	16.7	90.03
11:15:00	18:41	200	14.95	5.12	707.55	0.44	2.26	16.7	89.11
11:20:00	23:41	200	15.06	5.19	707.77	0.42	2.26	16.8	88.45
11:25:00	28:41	200	15.18	5.22	708.81	0.36	2.21	16.8	89.09

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	PZ-51			**Date**	02/10/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	65.8 degrees and Clear			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	26.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	9.72	**Total Depth (ft-bmp)**	36	**Water Column(ft)**	26.28	**Gallons in Well**	4.27
MP Elevation	744.3	**Pump Intake (ft-bmp)**	33	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	18:10	**Well Volumes Purged**	0.43	**Sample ID**	PZ-51	**Sampled by**	Kim Lapszynski, Jessica Ware
Purge Start	17:33	**Gallons Purged**	1.85	**Replicate/ Code No.**		**Color**	Clear
Purge End	18:09						

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)
17:33:00	00:00	200	9.72	4.81	749.91	5.96	4.44	16.7	197.64
17:38:00	05:00	200	10.18	4.51	738.17	14.1	3.35	16.6	219.49
17:43:00	10:00	200	10.27	4.44	726.11	13.1	3.61	16.4	224.11
17:48:00	15:00	200	10.28	4.42	724.04	8.57	3.54	16.3	222.32
17:53:00	20:00	200	10.31	4.43	723.87	6.43	3.53	16.2	221.36
17:58:00	25:00	200	10.27	4.43	724.08	4.96	3.48	16.1	218.03
18:03:00	30:00	200	10.31	4.44	724.43	3.7	3.42	16.1	219.87
18:08:00	35:00	200	10.3	4.46	724.88	3.26	3.42	16	224.81

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	PZ-35			**Date**	02/10/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	65.8 degrees F and Clear. The wind is blowing W/SW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	38.91	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.71	**Total Depth (ft-bmp)**	50.01	**Water Column(ft)**	38.3	**Gallons in Well**	6.22
MP Elevation	743.81	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:37	**Well Volumes Purged**	0.52	**Sample ID**	PZ-35	**Sampled by**	Mark Chest
Purge Start	12:40	**Gallons Purged**	3.22	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:35						

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)
12:40:00	00:00	200	11.71	5.14	154.22	14.62	4.96	19	225.37
12:45:00	05:00	200	11.91	4.88	168.17	20.03	3.97	18.7	185.46
12:50:00	10:00	200	11.91	4.87	162.04	8.16	4	18.5	150.97
12:55:00	15:00	100	11.95	4.88	160.68	9.32	3.99	18.6	150.68
13:00:00	20:00	100	11.88	4.91	160.44	7.15	3.99	18.8	135.5
13:05:00	25:00	100	11.88	4.92	160.96	6.36	3.99	18.8	138.81
13:10:00	30:00	100	11.88	4.94	159.95	5.85	4.02	18.9	141.67
13:15:00	35:00	100	11.88	4.97	160.7	6.72	4.03	18.7	147.58
13:20:00	40:00	100	11.88	5	161.18	6.08	4.03	18.9	152.65
13:25:00	45:00	100	11.88	5.05	160.98	6.13	4.05	18.8	150.92
13:30:00	50:00	100	11.88	5.08	160.94	6.12	4.02	18.9	154.28
13:35:00	55:00	100	11.88	5.11	159.93	6.2	4.03	18.7	156.71
13:40:00	00:00	100	11.88	5.15	160.56	6.14	4.04	18.7	161.2
13:45:00	05:00	100	11.88	5.21	160.72	6.09	4.04	18.9	164.34
13:50:00	10:00	100	11.88	5.25	160.82	6.45	4.04	18.9	162.52
13:55:00	15:00	80	11.8	5.28	160.58	6.62	4.03	19.1	158.16
14:00:00	20:00	80	11.8	5.35	160.74	6.02	4.01	19.3	162.06
14:05:00	25:00	80	11.8	5.4	162.95	6.49	4.04	19.3	159.34
14:10:00	30:00	80	11.8	5.39	162.07	6.88	4.28	18.4	158.77
14:15:00	35:00	80	11.8	5.28	159.88	6.5	4.03	18.4	177.94
14:20:00	40:00	80	11.8	5.23	165.79	6.01	3.98	18.3	186.7
14:25:00	45:00	80	11.8	5.33	172.97	5.78	3.94	18.9	188.82
14:30:00	50:00	80	11.8	5.4	173.36	4.7	3.96	18.9	186.26
14:35:00	55:00	80	11.8	5.43	167.24	4.53	4.02	19.1	190.1

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments:

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

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	PZ-37D			**Date**	02/11/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	63.1 degrees F and Clear. The wind is blowing W/SW at 12.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	192.44	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.91	**Total Depth (ft-bmp)**	202.44	**Water Column(ft)**	197.53	**Gallons in Well**	32.1
MP Elevation	761.12	**Pump Intake (ft-bmp)**	195	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:35	**Well Volumes Purged**	0.05	**Sample ID**	PZ-37D	**Sampled by**	Jessica Ware
Purge Start	15:58	**Gallons Purged**	1.49	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:07						

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)
15:58:00	00:00	250	4.91	7.83	511.26	20.93	6.43	18.2	-267.65
16:03:00	05:00	250	10.49	7.8	605.56	2.56	0.49	17.8	-252.3
16:08:00	10:00	125	10.76	7.73	622.66	1.32	0.36	17.8	-249.2
16:13:00	15:00	125	11.22	7.73	610.38	1.78	0.43	17.9	-249.24
16:18:00	20:00	125	11.66	7.75	601.2	1.23	0.48	17.8	-250.53
16:23:00	25:00	125	12.22	7.78	597.58	0.97	0.51	17.9	-255.17
16:28:00	30:00	125	12.31	7.8	588.66	1.09	0.51	18	-255.9
16:33:00	35:00	125	12.38	7.84	574.36	1	0.52	18.1	-259.08

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YAMW-1			**Date**	02/10/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	60.3 degrees F and Clear. The wind is blowing W/NW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	59.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.42	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	59.51	**Gallons in Well**	9.67
MP Elevation	743.83	**Pump Intake (ft-bmp)**	65	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:55	**Well Volumes Purged**	0.12	**Sample ID**	YAMW-1	**Sampled by**	Mark Chest
Purge Start	11:29	**Gallons Purged**	1.12	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:54						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:29:00	00:00	200	10.42	6.65	321.12	1.66	4.81	17.7	200.26
11:34:00	05:00	200	12.17	5.54	418.65	15.9	2.06	18.2	225.77
11:39:00	10:00	150	13.9	5.68	368.92	6.86	1.96	18.3	218.06
11:44:00	15:00	150	12.55	5.79	369.25	3.45	1.96	18.8	208.19
11:49:00	20:00	150	12.57	5.78	390.47	3.33	2.07	18.4	208.25
11:54:00	25:00	150	12.9	5.8	383.47	2.69	2.09	18.5	208.1

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWC-24SA			**Date**	02/10/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	67 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	47	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.67	**Total Depth (ft-bmp)**	57	**Water Column(ft)**	29.33	**Gallons in Well**	4.77
MP Elevation	765	**Pump Intake (ft-bmp)**	52	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:40	**Well Volumes Purged**	0.22	**Sample ID**	YGWC-24SA	**Sampled by**	Khalil Carson
Purge Start	14:13	**Gallons Purged**	1.06	**Replicate/ Code No.**	AMA-DUP-1	**Color**	Clear
Purge End	15:07						

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)
14:13:00	00:00	200	27.67	5.96	79.77	29.66	6.91	19	122.94
14:18:00	05:00	200	28.45	4.71	74.51	0.51	6.52	18.5	202.63
14:23:00	10:00	200	28.5	4.69	74.24	2.67	6.6	18.3	217.29
14:28:00	15:00	200	28.52	4.65	74.62	1.07	6.68	18.2	227.5
14:33:00	20:00	200	28.52	4.66	74.76	0.32	6.73	18.2	234.14

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	2	None
RAD Chem	1L Plastic	4	HNO3
Chloride,Fluoride ,Sulfate	250 mL Plastic	2	None
Metals	250 mL Plastic	2	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS

Project Number	30052916	**Well ID**	YGWC-23S			**Date**	02/10/2022
Project Name/Location	GPC Yates Phase I AP-B Site		**Weather(°F)**	64.0 degrees F and Clear. The wind is blowing W/SW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	28.61-	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	16.28	**Total Depth (ft-bmp)**	38.91	**Water Column(ft)**	22.63	**Gallons in Well**	3.68
MP Elevation	764.91	**Pump Intake (ft-bmp)**	34	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:10	**Volumes Purged**	0.65	**Sample ID**	YGWC-23S	**Sampled by**	Kim Lapszynski
Purge Start	14:35	**Gallons Purged**	2.38	**Replicate/ Code No.**			
Purge End	15:05						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:40	0	0	300	17.18	0.40	5.51	243	34.0	6.81	16.64	182.2	Clear	None
14:45	5	5	300	17.21	0.79	5.50	239	14.1	6.66	16.60	191.4	Clear	None
14:50	5	10	300	17.22	1.19	5.48	234	7.69	6.64	16.57	197.6	Clear	None
14:55	5	15	300	17.23	1.59	5.56	230	4.22	6.56	16.54	202.5	Clear	None
15:00	5	20	300	17.26	1.98	5.54	228	2.11	6.60	16.53	207.1	Clear	None
15:05	5	25	300	17.26	2.38	5.51	228	1.55	6.62	16.48	211.4	Clear	None

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments: Transducer in well.
Specific conductivity recorded in us/cm units

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: AMA
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = milliv

Groundwater Sampling Form

ARCADIS

Project Number	30052916	**Well ID**	YGWC-42			**Date**	02/10/2022
Project Name/Location	GPC Yates Phase I AP-B Site		**Weather(°F)**	65.8 degrees F and Clear. The wind is blowing W/SW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.85	**Total Depth (ft-bmp)**	59.76	**Water Column(ft)**	30.91	**Gallons in Well**	5.02
MP Elevation	797.86	**Pump Intake (ft-bmp)**	55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:35	**Volumes Purged**	0.14	**Sample ID**	YGWC-42	**Sampled by**	Kim Lapszynski
Purge Start	15:53	**Gallons Purged**	0.73	**Replicate/ Code No.**			
Purge End	16:30						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
15:58	0	0	150	30.94	0.40	5.59	1086	0.9	2.2	16.77	148.3	Clear	None
16:03	5	5	100	31.74	0.33	5.58	1083	0.98	1.71	16.92	164.5	Clear	None
16:08	5	10	100	32.03	0.46	5.58	1080	0.95	1.46	16.85	172.0	Clear	None
16:13	5	15	50	31.89	0.53	5.58	1077	1.11	1.54	16.81	177.9	Clear	None
16:18	5	20	50	31.76	0.59	5.58	1074	0.43	1.64	16.73	182.4	Clear	None
16:23	5	25	50	31.66	0.66	5.58	1072	0.96	1.71	16.8	185.9	Clear	None
16:28	5	30	50	31.58	0.73	5.57	1069	0.96	1.78	16.67	188.9	Clear	None

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form

ARCADIS

Project Number	30052916	**Well ID**	YGWC-41			**Date**	02/08/2022
Project Name/Location	GPC Yates Phase I AP-B Site		**Weather(°F)**	65 degrees F and clear. The wind is blowing W/SW.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	56.82-66.82	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.39	**Total Depth (ft-bmp)**	67.32	**Water Column(ft)**	38.93	**Gallons in Well**	6.33
MP Elevation	803.92	**Pump Intake (ft-bmp)**	62	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:20	**Volumes Purged**	0.33	**Sample ID**	YGWC-41	**Sampled by**	Kim Lapszynski
Purge Start	15:32	**Gallons Purged**	2.11	**Replicate/ Code No.**	AMA-DUP-2		
Purge End	16:46						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
15:42	0	0	200	29.71	0.53	5.08	0.299	1.66	4.32	16.08	254.4	Clear	None
15:47	5	5	200	29.62	0.79	5.07	0.292	0.02	4.13	16.07	251.2	Clear	None
15:52	5	10	200	29.62	1.06	5.07	0.292	0.02	4.23	16.02	253.3	Clear	None
15:57	5	15	200	29.62	1.32	5.07	0.294	0.02	4.62	15.99	259.2	Clear	None
16:02	5	20	200	29.61	1.59	5.07	0.297	0.67	5.09	15.87	263.8	Clear	None
16:07	5	25	200	29.61	1.85	5.07	0.301	0.40	5.34	15.79	268.9	Clear	None
16:12	5	30	200	29.61	2.11	5.07	0.306	0.22	5.48	15.78	270.9	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	2	None
RAD 9315/9320	1L Plastic	4	HNO3
Cl, F, SO4	250 mL Plastic	2	None
Appendix III/IV Metals	250 mL Plastic	2	HNO3

Comments:

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: R6

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form

ARCADIS

Project Number	30052916	**Well ID**	YGWC-49			**Date**	02/08/2022
Project Name/Location	GPC Yates Phase I AP-B Site		**Weather(°F)**	60 degrees F and Clear. The wind is blowing W/SW.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	68.03-78.03	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	32.12	**Total Depth (ft-bmp)**	78.53	**Water Column(ft)**	46.41	**Gallons in Well**	7.54
MP Elevation	782.73	**Pump Intake (ft-bmp)**	73	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	18:00	**Volumes Purged**	0.22	**Sample ID**	YGWC-49	**Sampled by**	Kim Lapszynski
Purge Start	17:29	**Gallons Purged**	1.65	**Replicate/ Code No.**			
Purge End	18:08						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
17:39	0	0	250	33.04	0.66	5.81	0.225	0.50	2.48	15.88	232.6	Clear	None
17:44	5	5	250	33.09	0.99	5.8	0.222	0.75	2.26	15.92	228	Clear	None
17:49	5	10	250	33.18	1.32	5.79	0.223	0.52	2.21	15.87	224.8	Clear	None
17:54	5	15	250	33.2	1.65	5.79	0.224	0.02	2.20	15.86	224.5	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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: AMA

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = milliv

Upgradient Wells

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-3I			**Date**	02/09/2022
Project Location	AP-2		**Weather(°F)**	It is Clear. 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)	52.37	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	6.68	**Gallons in Well**	1.09
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:35	**Well Volumes Purged**	1.71	**Sample ID**	YGWA-3I	**Sampled by**	Kim Lapszynski
Purge Start	10:44	**Gallons Purged**	1.86	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:21						

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)
10:44:00	00:00	150		7.79	191.72	0.55	9.33	15.5	-6.75
10:49:00	05:00	150	52.73	7.56	242.9	0	4.82	16.5	9.8
10:54:00	10:00	150	52.76	7.63	253.88	0	3.07	16.4	-12.92
10:59:00	15:00	150	52.81	7.67	247.96	0	1.77	16.5	-73.7
11:01:00	17:14	150	52.88	7.68	241.83	0	1.49	16.5	-89.6
11:06:00	22:14	150	52.94	7.71	229.42	0	1.1	16.6	-111.61
11:11:00	27:14	150	52.95	7.66	217.68	0	0.81	16.6	-119.84
11:16:00	32:14	150	52.95	7.71	209.46	0	0.67	16.5	-130.84
11:21:00	37:14	150	52.95	7.73	202.67	0	0.54	16.5	-137.96
11:26:00	42:14	150	52.95	7.75	196.59	0	0.44	16.5	-143.71
11:31:00	47:14	150	52.95	7.66	196.86	0	0.48	16.5	-140.36

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-1I			**Date**	02/09/2022
Project Location	AP-2		**Weather(°F)**	57.9 degrees F and Clear. The wind is blowing W at 8.1 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)	37.85	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	15.75	**Gallons in Well**	2.56
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:45	**Well Volumes Purged**	0.72	**Sample ID**	YGWA-1I	**Sampled by**	Kim Lapszynski
Purge Start	12:46	**Gallons Purged**	1.85	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:43						

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)
12:46:00	00:00	250		7.54	42.71	0.98	9.62	16.4	81.1
12:51:00	05:00	250	39.57	6.68	55.57	1.12	2.25	16.3	-50.93
12:56:00	10:00	250	39.97	6.53	41.47	0.68	1.93	16.2	-47.9
13:01:00	15:00	100	40.05	6.51	39.94	0.75	1.62	16.1	-40.01
13:06:00	20:00	100	40.16	6.42	36.96	0.57	1.62	15.9	-27.95
13:11:00	25:00	100	40.28	6.32	36.37	0.37	2.49	15.8	-12.99
13:16:00	30:00	100	40.43	6.18	31.64	0.89	3.27	15.8	2.7
13:21:00	35:00	100	40.54	6.15	30.07	0.71	3.68	15.7	12.7
13:26:00	40:00	100	40.63	6.19	30.99	0.74	3.8	15.8	16.89
13:31:00	45:00	100	40.71	6.15	33.49	0.35	3.86	15.7	23.45
13:36:00	50:00	100	40.81	6.17	30.42	0.9	3.8	15.7	26.45
13:41:00	55:00	100	40.86	6.24	31.73	1.72	3.76	15.7	26

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III, IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-2I			**Date**	02/09/2022
Project Location	AP-2		**Weather(°F)**	60.1 degrees F and Clear. The wind is blowing W/SW at 8.1 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)	44.87	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	18.88	**Gallons in Well**	3.07
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:35	**Well Volumes Purged**	0.59	**Sample ID**	YGWA-2I	**Sampled by**	Kim Lapszynski
Purge Start	15:14	**Gallons Purged**	1.81	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:32						

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)
15:14:00	00:00	50	44.87	7.53	126.76		9.14	16.8	4.3
15:19:00	05:00	50	45.68	7.22	162.5		6.17	17.1	-9.41
15:24:00	10:00	50	46.07	7.14	185.48	2.76	3.69	16.7	-31.45
15:29:00	15:00	50	46.48	6.92	200.48	2.75	2.2	16.8	-37.18
15:34:00	20:00	50	46.87	6.7	199.52	1.55	1.58	16.6	-38.99
15:39:00	25:00	50	47.25	6.51	200.48	4.75	1.43	16.5	-36.85
15:44:00	30:00	50	47.62	6.41	197.86	2.14	1.44	16.6	-32.96
15:49:00	35:00	50	47.96	6.43	200.78	1.35	1.39	16.7	-29.86
15:54:00	40:00	50	48.26	6.39	197.61	0.65	1.53	16.9	-23.68
15:59:00	45:00	50	48.52	6.28	192.97	2.73	1.45	16.8	-17.24
16:04:00	50:00	50	48.82	6.24	189.88	1.52	1.41	16.9	-10.9
16:09:00	55:00	50	49.1	6.27	189.2	2.05	1.35	16.9	-6.22
16:14:00	00:00	50	49.4	6.23	187.16	1.97	1.38	16.9	-0.28
16:19:00	05:00	50	49.66	6.09	181.16	1.53	1.44	16.7	6
16:24:00	10:00	50	49.96	6.11	180.14	0.39	1.51	16.8	10.14
16:29:00	15:00	50	50.18	6.13	180.56	0.67	1.62	16.8	13.44
16:34:00	20:00	50	50.43	6.05	174.37	0.47	1.69	16.6	17.64
16:39:00	25:00	50	50.67	5.98	173.99	0.48	1.78	16.5	22.67
16:44:00	30:00	50	50.88	5.99	170.88	0.95	1.81	16.5	25.38
16:49:00	35:00	50	51.15	5.95	173.45	1.02	1.9	16.4	28.55
16:54:00	40:00	50	51.42	5.9	171.8	0.76	1.93	16.3	30.52
16:59:00	45:00	50	51.63	5.93	170.38	0.14	1.92	16.3	30.85
17:04:00	50:00	50	51.91	5.92	173.39	0.76	1.95	16.2	32.14
17:09:00	55:00	50	52.18	6.02	173.52	1.42	1.97	16.4	31.79
17:14:00	00:00	50	52.45	6	172.23	0.24	1.97	16.3	31.19
17:19:00	05:00	50	52.64	5.95	171.43	0.18	2.02	16.2	31.67
17:24:00	10:00	50	52.74	5.94	171.84	0.53	2	16.1	33.03
17:29:00	15:00	50	52.91	5.89	172.05	0.53	2.18	15.9	36.18
17:31:00	17:11	50		5.86	173.09	0.49	2.21	15.8	37.14

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV	250 mL Plastic	1	HNO3

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWA-30I			**Date**	02/11/2022
Project Location	AP-2		**Weather(°F)**	47 °F, Clear, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.18	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	43.9	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	15.58	**Gallons in Well**	2.53
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:20	**Well Volumes Purged**	0.75	**Sample ID**	YGWA-30I	**Sampled by**	Khalil Carson
Purge Start	08:36	**Gallons Purged**	1.89	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:26						

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)
08:36:00	00:00	200	43.9	6.06	56.19		7.65	15.8	221.48
08:41:00	05:00	200	43.9	5.75	42.5		6.81	16.5	191.7
08:46:00	10:00	200	43.9	5.65	41.21	0.61	6.81	16.6	192.77
08:51:00	15:00	200	43.9	5.47	40.54	0.32	6.79	16.5	197.87
08:56:00	20:00	200	43.9	5.39	39.59	0.43	6.72	16.5	198.93
09:01:00	25:00	200	43.9	5.52	39.79	0.32	6.78	16.6	192.36
09:07:00	30:41	200	43.9	5.52	39.73	0.17	6.77	16.6	191.93
09:12:00	35:41	200	43.9	5.59	39.75	0.42	6.73	16.7	188.76

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Chloride,Fluoride ,Sulfate	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-1D			**Date**	02/09/2022
Project Location	AP-2		**Weather(°F)**	57.9 degrees F and Clear. The wind is blowing W at 8.1 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)	48.84	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	80.01	**Gallons in Well**	13
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:45	**Well Volumes Purged**	0.12	**Sample ID**	YGWA-1D	**Sampled by**	Kim Lapszynski
Purge Start	14:10	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:41						

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)
14:10:00	00:00	200		7.26	47.87	74.8	9.84	14.8	27.93
14:15:00	05:00	200	48.93	7.14	31.6	9.14	1.28	16.1	-52.75
14:20:00	10:00	200	48.99	7.13	66.76	5.96	0.6	16.1	-71.82
14:25:00	15:00	200	49.04	7.17	33.51	3.37	0.33	16	-86.68
14:30:00	20:00	200	49.04	7.2	30.75	3.16	0.27	16	-95.91
14:35:00	25:00	200	49.07	7.2	29.69	1.01	0.28	16	-96.24
14:40:00	30:00	200	49.09	7.12	30.84	1.27	0.3	16	-90.4

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-3D			**Date**	02/09/2022
Project Location	AP-2		**Weather(°F)**	It is Clear. 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)	30.23	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	103.95	**Gallons in Well**	16.89
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:20	**Well Volumes Purged**	0.05	**Sample ID**	YGWA-3D	**Sampled by**	Kim Lapszynski
Purge Start	09:51	**Gallons Purged**	0.91	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:14						

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)
09:51:00	00:00	150		8.52	223.85		11.02	11.6	146.52
09:57:00	05:49	150		7.72	215.15		0.57	15	-163.37
10:02:00	10:49	150	30.34	7.87	213.86		0.17	15.4	-160.88
10:07:00	15:49	150	30.35	7.94	213.95	0.36	0.11	15.7	-166.55
10:09:00	18:03	150		7.95	213.88	0.95	0.09	15.8	-169.2
10:14:00	23:03	150	30.35	7.97	213.55	0.11	0.09	15.8	-174.12

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl,F,SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments: The Water-level range during purging activities was 30.23-30.35 ft-bmp

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:
Condition of Well:
Well Completion: NA
Well Locked at Arrival:
Well Locked at Departure:
Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWA-14S			**Date**	02/10/2022
Project Location	AP-2		**Weather(°F)**	65.8 degrees F and Clear. The wind is blowing W/SW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	24.66	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	18.52	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	16.44	**Gallons in Well**	2.67
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:20	**Well Volumes Purged**	0.40	**Sample ID**	YGWA-14S	**Sampled by**	Khalil Carson
Purge Start	15:53	**Gallons Purged**	1.06	**Replicate/ Code No.**	Up-DUP-2	**Color**	Clear
Purge End	16:39						

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)
15:53:00	00:00	200	18.52	4.9	63.46		6.61	18.2	196.17
15:58:00	05:00	200	19.65	4.47	63.88	0.37	5.84	18.1	235.99
16:03:00	10:00	200	19.65	4.52	64.03	0.38	5.8	18.1	244.08
16:08:00	15:00	200	19.65	4.52	64.11	0.46	5.77	18.1	250.58
16:13:00	20:00	200	19.65	4.5	64.25	0.27	5.74	18.1	256.98

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	2	None
RAD Chem	1L Plastic	4	HNO3
Metals	250 mL Plastic	2	HNO3
Chloride,Fluoride ,Sulfate	250 mL Plastic	2	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:
Condition of Well:
Well Completion: NA
Well Locked at Arrival:
Well Locked at Departure:
Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWA-5D			**Date**	02/10/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	65.8 degrees F and Clear. The wind is blowing W/NW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.83	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	19.52	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	109.61	**Gallons in Well**	17.81
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:40	**Well Volumes Purged**	0.06	**Sample ID**	YGWA-5D	**Sampled by**	Khalil Carson
Purge Start	17:10	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	18:21						

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)
17:10:00	00:00	200	19.52	6.70	201.38	7.53	2.33	16.4	-82.19
17:15:00	05:00	200	20.35	7.02	219.86	4.55	0.13	16.6	-128.55
17:20:00	10:00	200	20.35	7.00	208.73	2.03	0.09	16.5	-141.68
17:25:00	15:00	200	20.35	6.99	203.50	0.41	0.07	16.5	-143.96
17:30:00	20:00	200	20.35	6.99	201.44	0.04	0.06	16.4	-145.53

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Chloride,FLUORIDE ,Sulfate	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS

Project Number	30052918	**Well ID**	YGWA-18I			**Date**	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		**Weather(°F)**	57.0 degrees F and Clear. The wind is blowing W/NW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.97-79.97	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	23	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	56.97	**Gallons in Well**	9.26
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:31	**Volumes Purged**	0.26	**Sample ID**	YGWA-18I	**Sampled by**	Jessica Ware
Purge Start	14:05	**Gallons Purged**	2.44	**Replicate/ Code No.**			
Purge End	14:42						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:15	0	0	250	23.31	0.66	6.00	0.097	2.43	3.54	14.81	182.6	Clear	None
14:20	5	5	250	23.38	0.99	5.98	0.095	0.70	3.51	14.93	186.9	Clear	None
14:25	5	10	250	23.37	1.32	5.98	0.095	0.52	3.52	15.13	190.1	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-5I			**Date**	02/10/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	65.8 degrees F and Clear. The wind is blowing W/NW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.64	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	17.94	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	41	**Gallons in Well**	6.66
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:43	**Well Volumes Purged**	0.16	**Sample ID**	YGWA-5I	**Sampled by**	Mark Chest
Purge Start	17:05	**Gallons Purged**	1.06	**Replicate/ Code No.**	UP-DUP-3	**Color**	Clear
Purge End	17:25						

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)
17:05:00	00:00	200	17.94	6.85	98.05	6.03	7.71	16.4	197.08
17:10:00	05:00	200	18.38	5.14	77.62	0.12	6.1	16.6	246.13
17:15:00	10:00	200	18.38	5.12	77.78	0.13	6.11	16.5	247.72
17:20:00	15:00	200	18.38	5.13	77.2	0.08	6.13	16.5	249
17:25:00	20:00	200	18.38	5.14	78.65	0.87	6.13	16.4	250.28

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	4	HNO3
TDS	1L Plastic	2	None
Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	2	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWA-4I			**Date**	02/11/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	46.6 degrees F and Clear. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	38.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	22.21	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	26.6	**Gallons in Well**	4.32
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:40	**Well Volumes Purged**	0.21	**Sample ID**	YGWA-4I	**Sampled by**	Khalil Carson
Purge Start	10:13	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:55						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:13:00	00:00	200	22.21	5.67	113.64	2.83	7.6	13.6	206.98
10:18:00	05:00	200	25.15	6.03	141.88	0.41	1.29	15.6	187.93
10:23:00	10:00	150	26.75	5.98	131.39	0.61	1.82	15.6	188.25
10:28:00	15:00	150	26.6	5.96	130.68	0.38	1.85	15.3	189.93
10:33:00	20:00	150	26.6	5.95	130.2	0.42	1.87	15.4	190.98

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Chloride,Fluoride ,Sulfate	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS

Project Number	30052918	**Well ID**	YGWA-17S			**Date**	02/09/2022
Project Name/Location	AMA AP-3, A, B and B		**Weather(°F)**	Sunny, clear, 46 degrees Fahrenheit			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.65-39.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.7	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	28.27	**Gallons in Well**	4.59
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:20	**Volumes Purged**	0.58	**Sample ID**	YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	09:46	**Gallons Purged**	2.64	**Replicate/ Code No.**			
Purge End	10:36						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:56	0	0	200	12.05	0.53	5.56	0.122	6.67	2.00	14.04	181.0	Clear	None
10:01	5	5	200	12.07	0.79	5.54	0.122	3.67	1.83	14.08	187.0	Clear	None
10:06	5	10	200	12.06	1.06	5.53	0.121	4.20	1.67	14.14	192.3	Clear	None
10:11	5	15	200	12.04	1.32	5.53	0.12	2.97	1.58	14.25	197.1	Clear	None
10:16	5	20	200	12.07	1.59	5.53	0.12	2.52	1.57	14.38	200.3	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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: AMA

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form

ARCADIS

Project Number	30052918	**Well ID**	YGWA-18S			**Date**	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		**Weather(°F)**	50.2 degrees F and Clear. The wind is blowing SW at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.97-39.97	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	19.74	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	20.23	**Gallons in Well**	3.29
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:24	**Volumes Purged**	0.89	**Sample ID**	YGWA-18S	**Sampled by**	Jessica Ware
Purge Start	11:20	**Gallons Purged**	2.92	**Replicate/ Code No.**			
Purge End	13:03						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:30	0	0	150	20.21	0.40	5.51	0.067	13.5	3.71	12.46	227.8	Clear	None
11:35	5	5	150	20.23	0.59	5.41	0.067	13.4	3.04	12.98	220.8	Clear	None
11:40	5	10	100	20.14	0.73	5.35	0.068	13.7	2.32	13.23	219.9	Clear	None
11:45	5	15	100	20.06	0.86	5.31	0.068	12.5	2.26	13.17	220.8	Clear	None
11:50	5	20	100	20.09	0.99	5.29	0.067	10.3	1.88	13.15	219.7	Clear	None
11:55	5	25	100	20.13	1.12	5.30	0.068	7.97	1.87	13.30	218.0	Clear	None
12:00	5	30	100	20.12	1.25	5.30	0.068	7.46	1.80	13.48	217.3	Clear	None
12:05	5	35	100	20.11	1.39	5.30	0.068	5.99	1.82	13.59	215.2	Clear	None
12:10	5	40	100	20.14	1.52	5.29	0.068	4.62	1.80	13.67	214.3	Clear	None
12:15	5	45	100	20.12	1.65	5.29	0.068	4.33	1.85	13.69	213.2	Clear	None
12:20	5	50	100	20.10	1.78	5.28	0.068	3.23	1.77	13.68	213.6	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form

ARCADIS

Project Number	30052916	**Well ID**	YGWA-39			**Date**	02/08/2022
Project Name/Location	GPC Yates Phase I AP-B Site		**Weather(°F)**	65 degrees F and Clear. The wind is blowing W/SW.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	58.09-68.09	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	17.62	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	50.97	**Gallons in Well**	8.28
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:55	**Volumes Purged**	0.26	**Sample ID**	YGWA-39	**Sampled by**	Kim Lapszynski
Purge Start	14:13	**Gallons Purged**	2.11	**Replicate/ Code No.**			
Purge End	14:54						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:23	0	0	200	17.62	0.53	5.78	0.381	0.15	0.40	16.43	68.9	Clear	None
14:28	5	5	200	18.07	0.79	5.78	0.382	0.02	0.28	16.52	72.9	Clear	None
14:33	5	10	200	18.08	1.06	5.78	0.381	0.07	0.25	16.41	76.8	Clear	None
14:38	5	15	200	18.09	1.32	5.75	0.373	0.02	0.22	16.28	86.2	Clear	None
14:43	5	20	200	18.09	1.59	5.77	0.368	0.39	0.20	16.28	89.9	Clear	None
14:48	5	25	200	18.11	1.85	5.78	0.367	0.56	0.20	16.21	89.6	Clear	None
14:53	5	30	200	18.11	2.11	5.78	0.366	0.06	0.19	16.24	92.0	Clear	None

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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: R6

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form

ARCADIS

Project Number	30052918	**Well ID**	YGWA-21I			**Date**	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		**Weather(°F)**	Sunny, clear, 60 degrees Fahrenheit			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.6-79.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.61	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	50.29	**Gallons in Well**	8.17
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:40	**Volumes Purged**	0.46	**Sample ID**	YGWA-21I	**Sampled by**	Jessica Ware
Purge Start	17:06	**Gallons Purged**	3.80	**Replicate/ Code No.**			
Purge End	18:21						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
17:16	0	0	250	32.85	0.66	6.81	0.143	3.84	0.82	15.17	-50.9	Clear	None
17:21	5	5	250	33.11	0.99	6.85	0.144	2.31	0.54	15.13	-81.5	Clear	None
17:26	5	10	200	33.27	1.25	6.85	0.144	1.57	0.38	15.04	-79.2	Clear	None
17:31	5	15	175	33.34	1.49	6.85	0.144	2.27	0.36	14.99	-80.0	Clear	None
17:36	5	20	175	33.25	1.72	6.84	0.143	1.19	0.33	14.82	-86.9	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form

ARCADIS

Project Number	30052918	**Well ID**	YGWA-20S			**Date**	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		**Weather(°F)**	Sunny, clear, 62 degrees Fahrenheit			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	19.22-29.52	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.02	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	18.5	**Gallons in Well**	3.01
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:19	**Volumes Purged**	1.19	**Sample ID**	YGWA-20S	**Sampled by**	Jessica Ware
Purge Start	15:35	**Gallons Purged**	3.59	**Replicate/ Code No.**			
Purge End	16:38						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
15:45	0	0	250	11.78	0.66	5.96	0.047	19.3	7.42	14.69	252.1	Clear	None
15:50	5	5	250	11.75	0.99	5.94	0.047	11.6	7.18	14.67	236.3	Clear	None
15:55	5	10	250	11.77	1.32	5.93	0.047	9.03	7.16	14.65	228.2	Clear	None
16:00	5	15	200	11.64	1.59	5.93	0.046	6.99	6.90	14.65	223.0	Clear	None
16:05	5	20	200	11.49	1.85	5.91	0.045	4.05	6.98	14.38	222.3	Clear	None
16:10	5	25	200	11.42	2.11	5.91	0.045	3.40	6.93	14.33	220.7	Clear	None
16:15	5	30	200	11.41	2.38	5.91	0.045	3.55	6.89	14.22	220.0	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-47			**Date**	02/08/2022
Project Location	AP-1		**Weather(°F)**	53.4 degrees F and Clear. The wind is blowing N/NE at 10.3 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)	34.8	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	24.39	**Gallons in Well**	3.96
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:40	**Well Volumes Purged**	0.40	**Sample ID**	YGWA-47	**Sampled by**	Mark Chest
Purge Start	11:12	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:37						

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)
11:12:00	00:00	200	34.8	5.15	193.83		2.88	17.3	238.85
11:17:00	05:00	200	35.55	5.24	195.95		2.87	17	241.34
11:22:00	10:00	200	35.55	5.3	197.08	0.8	2.93	17.1	240.91
11:27:00	15:00	200	35.55	5.38	196.93	0.22	2.95	17.1	238.23
11:32:00	20:00	200	35.55	5.42	197.63	0.22	2.86	17	237.76
11:37:00	25:00	200	35.55	5.4	197.93	0.19	2.82	17.2	239.78
11:42:00	30:00	200	35.55	5.53	201	0.37	2.95	18.2	229.25

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Wet Chem Non Metals	250 mL Plastic	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	GWA-2			**Date**	02/08/2022
Project Location	Gypsum Landfill		**Weather(°F)**	38.8 degrees F and Clear. The wind is blowing N at 11.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	42.1	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	36.42	**Total Depth (ft-bmp)**	52.13	**Water Column(ft)**	15.71	**Gallons in Well**	2.55
MP Elevation	805.62	**Pump Intake (ft-bmp)**	47	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:45	**Well Volumes Purged**	0.26	**Sample ID**	GWA-2	**Sampled by**	Khalil Carson
Purge Start	10:14	**Gallons Purged**	0.66	**Replicate/ Code No.**	UP-DUP-1	**Color**	Clear
Purge End	10:40						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:14:00	00:00	100	36.42	5.84	450.71		1.28	15	181.1
10:19:00	05:00	100	37.25	5.8	427.58	2.88	1.18	15.1	184.46
10:24:00	09:56	100	37.4	5.8	420.36	2.7	1.04	15.2	184.8
10:29:00	14:56	100	37.52	5.82	417.21	1.81	0.93	15.4	179.34
10:34:00	19:56	100	37.45	5.83	415.26	1.05	0.95	14.5	178.52
10:39:00	24:56	100	37.45	5.83	414.33	0.85	0.97	14.5	174.43

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	2	None
RAD Chem	1L Plastic	4	HNO3
Metals	250 mL Plastic	2	HNO3
Chloride,Fluoride,Sulfate	250 mL Plastic	2	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS

Project Number	30052916	**Well ID**	YGWA-40			**Date**	02/08/2022
Project Name/Location	GPC Yates Phase I AP-B Site		**Weather(°F)**	50.7 degrees F and Clear. The wind is blowing N/NE at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	37.73-47.73	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	22.72	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	25.51	**Gallons in Well**	4.15
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:22	**Volumes Purged**	0.38	**Sample ID**	YGWA-40	**Sampled by**	Kim Lapszynski
Purge Start	12:49	**Gallons Purged**	1.59	**Replicate/ Code No.**			
Purge End	13:38						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:59	0	0	200	23.91	0.53	5.35	0.124	1.31	1.06	15.73	206.9	Clear	None
13:04	5	5	200	23.94	7.93	5.34	0.123	0.35	0.85	15.77	211.4	Clear	None
13:09	5	10	200	23.97	10.57	5.30	0.119	0.02	0.73	15.72	211.6	Clear	None
13:14	5	15	200	23.97	1.32	5.29	0.118	0.44	0.60	15.81	211.1	Clear	None
13:19	5	20	200	23.98	1.59	5.26	0.118	0.02	0.53	15.75	211.7	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	500 mL Plastic	1	HNO3

Comments:

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: R6 Ash Disposal Area

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = milliv

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-04S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	11:25:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	11:44:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-05S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	11:29:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-6I
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	12:51:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-6S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	12:54:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-06D
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	12:56:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-48
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:01:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-49
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:07:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-24IA
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:14:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-24SA
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:17:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-35
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:27:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YAMW-1
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:23:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-36A
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:31:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☐	☐	☑
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Label only says “YGWC-36” missing “36A”				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-3
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:44:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-42
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:47:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-4
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:52:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-41
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	13:55:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:05:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-52D
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:22:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-53D
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:18:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-37D
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:23:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-37
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:26:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-5
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:40:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-38
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:33:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-2
Person Gauging:	Khalil Carson
Date:	2/7/2022
Time:	15:20:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-23S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:46:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-43
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:59:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-51
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	15:06:00

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

Upgradient Wells

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Khalil Carson
Date:	2/8/2022
Time:	08:55:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Khalil Carson
Date:	2/8/2022
Time:	08:39:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	15:46:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	15:26:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	15:28:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	15:37:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	15:43:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-4I
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	11:16:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	11:34:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	11:44:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	11:32:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	11:53:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	12:25:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	12:35:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	12:39:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:00:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	14:05:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	11:05:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	None				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWA-47
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	12:32:00

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

Appendix B

Monitoring Well Abandonment Records (May 2022)

WELL ABANDONMENT REPORT

Plant Yates AP-3/A/B/B' and R6 Landfill
Newnan, Georgia

August 16, 2022

Well Abandonment Report

Plant Yates – AP-3, A, B, B’ and R6 Landfill
Newnan, Georgia

August 16, 2022

Prepared By:
Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666

Prepared For:
Georgia Power Company

Becky Steever
Staff Geologist

Geoffrey Gay, PE
Technical Expert (Eng)

Contents

Figures

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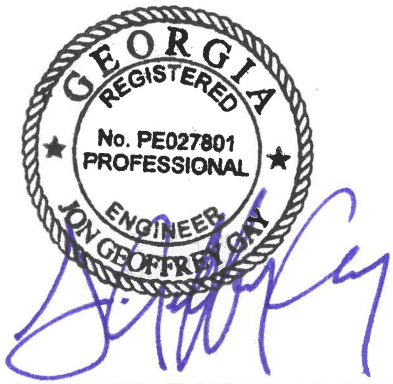
PROFESSIONAL ENGINEER CERTIFICATION

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g). I further certify that this report was prepared by me or by a subordinate working under my direction.



8.31.22

J. Geoffrey Gay, P.E.
Principal Environmental Engineer
Georgia Registration No. 27801

Date

1 Introduction

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 eight miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. Plant Yates, once a coal-fired power generation facility converted to natural gas combustion turbines, occupies approximately 2,400 acres. The Dyer Road re-alignment construction activities at Georgia Power Company Plant Yates necessitated the abandonment of a groundwater monitoring wells and piezometer at Ash Ponds (AP) AP-3, A, B, B', and the R6 Landfill. This report documents the abandonment of monitoring well YGWC-24SA and piezometer PZ-24I on May 25, 2022. **Figure** 1 depicts the configuration of ash ponds AP-A, AP-B, AP-B', AP-3, and the R6 CCR Landfill, and **Figure 2** depicts the location of the monitoring wells.

2 Abandonment Activities

Monitoring well abandonment was performed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. The abandonment activities were performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Monitoring well YGWC-24SA and piezometer PZ-24IA were abandoned by grouting in place. The concrete pads and bollards were removed, and the casing was over-drilled and cut off at a depth of 10-feet below ground surface. The screen and riser pipe were tremie-grouted with a 30 percent solids bentonite grout to ground surface. The surrounding area consists of vegetation and/or bare soil. No resurfacing efforts were required to match the surrounding surface condition. Well abandonment records are provided in **Appendix A**.

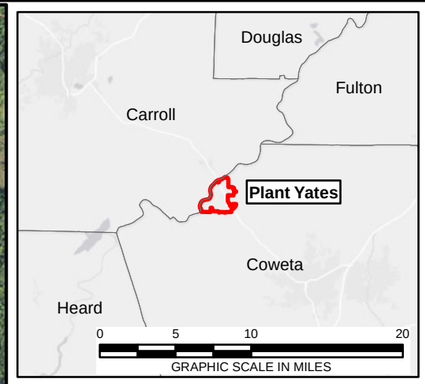
Figures

84°55'30"W 84°55'20"W 84°55'10"W 84°55'0"W 84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W 84°52'30"W

33°28'40"N
33°28'30"N
33°28'20"N
33°28'10"N
33°28'0"N
33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N
33°26'40"N

84°55'30"W 84°55'20"W 84°55'10"W 84°55'0"W 84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W 84°52'30"W 84°52'20"W

FORMER ASH POND A
ASH POND B
ASH POND B'
R6 ASH DISPOSAL AREA
ASH POND 3
ASH MANAGEMENT AREA



LEGEND

APPROXIMATE PROPERTY BOUNDARY
PERMITTED UNIT BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: JULY 1, 2021 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

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

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
WELL ABANDONMENT REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W

33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N

YGWA-6S
PZ-06D
YGWA-6I
PZ-48
YGWC-49
FORMER ASH POND A
PZ-24IA
YGWC-24SA
ASH POND 2
YAMW-1
PZ-35
YGWC-36A
ASH POND B
ASH POND B'
YGWA-17S
PZ-51
YGWC-43
R6 ASH DISPOSAL AREA
YGWA-18S
YGWA-18I
YAMW-2
YAMW-3
YGWC-42
YAMW-4
YGWC-41
PZ-37
PZ-37D
PZ-52D
PZ-53D
YGWC-23S
ASH POND 3
YAMW-5
YGWC-38
ASH MANAGEMENT AREA
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
YGWA-4I
PZ-04S
PZ-05S
YGWA-5D
YGWA-5I

LEGEND

- PERMITTED UNIT BOUNDARY
- 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

NOTE:
AERIAL IMAGE SOURCES: JULY 1, 2021 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

0 350 700 1,400
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
WELL ABANDONMENT REPORT

WELL LOCATION MAP

ARCADIS

FIGURE
2

Appendix A

Well Abandonment Records

MONITOR WELL ABANDONMENT RECORD

Site Name : Power Plant Yates

Well ID: YGWC-24SA

Site Name: Power Plant Yates

County: Coweta County

Well ID: YGWC-24SA

Project Number: 30055278

Date Installed: 6/4/2020

Date Abandoned: 5/25/2022

Subcontractor: Cascade

Well Depth: 62 ft

Screen Depth from TOC (ft): NA ft

Water Table Depth from TOC: 27.84 ft

Casing Type: Galvanized [ ] PVC [✓] Stainless Steel [ ] ID: 2in [✓] 4in [ ]

Screen Type: PVC [✓] Stainless steel [ ] Abandoned Screen Length: 10 ft

2in Annulus Grouted: Yes [✓] No [ ] from 54 ft to 0 ft Grout Type: Bentonite

4in Annulus Grouted: Yes [ ] No [ ] from __ ft to __ ft Grout Type: _____

Casing: Pulled [ ] Cut [✓] Depth BGS: 10 Well Grouted? Yes [✓] No [ ]

Grout Type: Bentonite [✓] Cement [ ] Grout Mixture: Chips [ ] Slurry [✓]

Grouting Method: Through Casing [ ] Tremie [✓] Poured [ ]

Other [ ] Grouting Method Other:

Crew:

Comments: Materials: aquaguard
Tremie grout.
Approximately 2.5 bags/40 gallon

Well overdrilled to 10 feet bgs.

Notes:

ft - feet in - inches TOC - Top of Casing

ID - Inside Diameter BGS - Below ground surface

MONITOR WELL ABANDONMENT RECORD

Site Name : Power Plant Yates

Well ID: YGWC-24SA

Location Sketch: See attached site map

Well before Abandonment

Well after Abandonment

Additional Photos

MONITOR WELL ABANDONMENT RECORD

Site Name : Power Plant Yates

Well ID: PZ-24IA

Site Name: Power Plant Yates

County: Coweta County

Well ID: PZ-24IA

Project Number: 30055278

Date Installed:

Date Abandoned: 5/25/2022

Subcontractor: Cascade

Well Depth: 89.53 ft

Screen Depth from TOC (ft): 79.53 ft

Water Table Depth from TOC: 28.52 ft

Casing Type: Galvanized [ ] PVC [✓] Stainless Steel [ ] ID: 2in [✓] 4in [ ]

Screen Type: PVC [✓] Stainless steel [ ] Abandoned Screen Length: ft

2in Annulus Grouted: Yes [✓] No [ ] from 89 ft to 0 ft Grout Type: Bentonite

4in Annulus Grouted: Yes [ ] No [ ] from __ ft to __ ft Grout Type: _____

Casing: Pulled [ ] Cut [✓] Depth BGS: 10 Well Grouted? Yes [✓] No [ ]

Grout Type: Bentonite [✓] Cement [ ] Grout Mixture: Chips [ ] Slurry [✓]

Grouting Method: Through Casing [ ] Tremie [✓] Poured [ ]

Other [ ] Grouting Method Other:

Crew:

Comments: Materials: aquaguard
Tremie grout.
Approximately 2.75 bags/44 gallons

Well overdrilled to 10 feet bgs.

Notes:

ft - feet in - inches TOC - Top of Casing

ID - Inside Diameter BGS - Below ground surface

MONITOR WELL ABANDONMENT RECORD

Site Name : Power Plant Yates

Well ID: PZ-24IA

Location Sketch: See attached site map

Well before Abandonment

Well after Abandonment

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

Appendix C

Analytical Laboratory Data and Validation Reports (February 2022)

February 2022

Georgia Power Co. – Plant Yates

Data Review Report

Metals and General Chemistry Analyses

SDG #92587090

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

Report #44871R
Review Level: Tier II
Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587090 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
YGWC-49	92587090001	Water	2/8/2022			X	X
YGWC-41	92587090002	Water	2/8/2022			X	X
AMA-DUP-2	92587090003	Water	2/8/2022	YGWC-41		X	X
YGWC-43	92587090004	Water	2/8/2022			X	X
AMA-EB-1	92587090005	Water	2/8/2022			X	X
YAMW-5	92587090006	Water	2/10/2022			X	X
PZ-37	92587090007	Water	2/10/2022			X	X
AMA-DUP-4	92587090008	Water	2/10/2022	PZ-37		X	X
PZ-51	92587090009	Water	2/10/2022			X	X
YAMW-1	92587090010	Water	2/10/2022			X	X
PZ-35	92587090011	Water	2/10/2022			X	X
YAMW-4	92587090012	Water	2/10/2022			X	X
YGWC-23S	92587090013	Water	2/10/2022			X	X
YGWC-38	92587090014	Water	2/10/2022			X	X
YGWC-42	92587090015	Water	2/10/2022			X	X
YGWC-24SA	92587090016	Water	2/10/2022			X	X
AMA-DUP-1	92587090017	Water	2/10/2022	YGWC-24SA		X	X
YGWC-36A	92587090018	Water	2/11/2022			X	X
YAMW-2	92587090019	Water	2/10/2022			X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAMW-3	92587090020	Water	2/10/2022			X	X
AMA-EB-2	92587090021	Water	2/10/2022			X	X
AMA-FB-1	92587090022	Water	2/10/2022			X	X
AMA-FB-2	92587090023	Water	2/10/2022			X	X
PZ-37D	92587090024	Water	2/11/2022			X	X
PZ-52D	92587090025	Water	2/11/2022			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. pH analysis performed as a field measurement.

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, and 7470A; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information

as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
YGWC-36A YAMW-2	Boron (EB)	Detected sample results <RL and <BAL	"UB" at the RL
PZ-52D	Arsenic (MB)		
PZ-35	Boron (EB)	Detected sample results >RL and <BAL	"UB" at the detected sample concentration

Notes:
EB = Equipment blank
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 recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis was performed using sample AMA-DUP-2 in association with SW-846 6010D analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using sample YGWC-41 in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-38 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. 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
YGWC-41 / AMA-DUP-2	Antimony	0.0030 U	0.0018 J	AC
	Arsenic	0.0021 J	0.0027 J	
	Barium	0.021	0.021	
	Beryllium	0.0016	0.0017	
	Cadmium	0.00012 J	0.00012 J	
	Lithium	0.0023 J	0.0024 J	
	Calcium	15.0	14.6	2.7%
	Boron	4.0	4.1	2.5%
	Selenium	0.031	0.032	3.2%
PZ-37 / AMA-DUP-4	Arsenic	0.0017 J	0.0018 J	AC
	Beryllium	0.0010	0.0011	
	Cadmium	0.00093	0.00089	
	Cobalt	0.0036 J	0.0041 J	
	Lithium	0.017 J	0.017 J	
	Calcium	106	107	0.9%
	Barium	0.029	0.029	0.0%
	Boron	9.5	9.6	1.0%
	Selenium	0.20	0.20	0.0%
YGWC-24SA / AMA-DUP-1	Calcium	2.2	2.2	AC
	Arsenic	0.0024 J	0.0019 J	
	Beryllium	0.00016 J	0.00017 J	
	Barium	0.026	0.027	3.8%

Note:
AC = Acceptable

The differences in the results between the parent sample YGWC-41 and field duplicate sample AMA-DUP-2 were acceptable.

The differences in the results between the parent sample PZ-37 and field duplicate sample AMA-DUP-4 were acceptable.

The differences in the results between the parent sample YGWC-24SA and field duplicate sample AMA-DUP-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) Cold Vapor Atomic Absorption (CVAA)					
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
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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
YGWC-24SA AMA-DUP-1 YGWC-36A YAMW-2	TDS (EB)	Detected sample results >RL and <BAL	"UB" at the 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 performed using sample PZ-37 in association with USEPA 300.0 analysis exhibited chloride and fluoride recoveries within the control limits. The concentration of sulfate in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using samples AMA-DUP-1 and PZ-37D in association with chloride, fluoride, and sulfate 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.

The laboratory duplicate analysis performed using samples AMA-DUP-4, YAMW-2, and PZ-37D in association with TDS analysis exhibited RPDs within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with chloride, fluoride, and sulfate analysis. 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
YGWC-41 / AMA-DUP-2	Chloride	3.5	3.5	AC
	TDS	226	235	3.9%
	Sulfate	109	107	1.9%
PZ-37 / AMA-DUP-4	Chloride	4.2	4.2	AC
	TDS	798	772	3.3%
	Sulfate	452	475	5.0%
YGWC-24SA / AMA-DUP-1	Chloride	8.7	8.7	0.0%

Note:
AC = Acceptable

The differences in the results between the parent sample YGWC-41 and field duplicate sample AMA-DUP-2 were acceptable.

The differences in the results between the parent sample PZ-37 and field duplicate sample AMA-DUP-4 were acceptable.

The differences in the results between the parent sample YGWC-24SA and field duplicate sample AMA-DUP-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: SM4500-H+ B, SM2540C, SM2320B. 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

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: March 18, 2022

PEER REVIEW: Dennis Capria

DATE: March 22, 2022

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : | Of |

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: | State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWC-23S~~	WT	G	~~2/1/22~~	1030	–	–		5	2		3						X	X	X	X			pH:
2	~~YGWC-24SA~~	WT	G				–		5	2		3						X	X	X	X			pH:
3	~~AMA-DUP-1~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
4	~~YGWC-36A~~	WT	G						5	2		3						X	X	X	X			pH:
5	YGWC-49	WT	G	2/8/22	1800	–	–		5	2		3						X	X	X	X			pH: 5.79
6	~~YGWC-38~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
7	YGWC-41	WT	G	2/8/22	1620	–	–		5	2		3						X	X	X	X			pH: 5.07
8	AMA-DUP-2	WT	G	2/8/22	—	–	–		5	2		3						X	X	X	X			pH: —
9	~~YGWC-42~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
10	~~YGWC-43~~	WT	G	~~2/1/22~~	1000	–	–		5	2		3						X	X	X	X			pH:
11	YAMW-2	WT	G			–	–		5	2		3						X	X	X	X			pH:
12	~~YAMW-3~~	WT	G			–	–		5	2		3						X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: | DATE Signed: 2/9/22

TEMP In C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : | Of

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency:

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWC-23S~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
2	~~YGWC-24SA~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
3	~~AMA-DUP-1~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
4	~~YGWC-36A~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
5	~~YGWC-49~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
6	~~YGWC-38~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
7	~~YGWC-4T~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
8	~~AMA-DUP-2~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
9	~~YGWC-42~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
10	YGWC-43	WT	G	2/8/22	10:20	–	–		5	2		3							X	X	X	X		pH: 5.82
11	~~YAMW-2~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
12	~~YAMW-3~~	WT	G			–	–		5	2		3							X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/9/22	0827		2/9/22	0827	
App III Metals: Boron 6020B, Ca 6010D		2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	
Pace Profile #:	10840

Page : 1 Of 1

Regulatory Agency:

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	AMA-EB-1	WT	G	2/8/22	1530	-	-		5	2		3						X	X	X	X	
2	~~AMA-EB-2~~	WT	G			-	-		5	2		3						X	X	X	X	
3	~~AMA-FB-1~~	WT	G			-	-		5	2		3						X	X	X	X	
4	~~AMA-FB-2~~	WT	G						5	2		3						X	X	X	X	
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Widszynski /Arcadis	2/9/22	0825	Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D	TArcadis	2/9/22	0918		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Widszynski

SIGNATURE of SAMPLER:

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587090	PZ-35	SW846 6020B	Boron	0.054	mg/L	UB	Blank contamination
	YGWC-24SA	SM2540C	TDS	78.0	mg/L	UB	Blank contamination
	AMA-DUP-1	SM2540C	TDS	71.0	mg/L	UB	Blank contamination
	YGWC-36A	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
		SM2540C	TDS	81.0	mg/L	UB	Blank contamination
	YAMW-2	SM2540C	TDS	48.0	mg/L	UB	Blank contamination
	YAMW-2	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
	PZ-52D	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination

Abbreviations:
mg/L = milligrams per liter

Qualifiers:
UB = not detected due to blank contamination

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

April 11, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES AMA-R6
Pace Project No.: 92587090

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 14, 2022. 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Nicole D'oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Becky Steever, Arcadis
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES AMA-R6
Pace Project No.: 92587090

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587090001	**YGWC-49**	Water	02/08/22 18:00	02/09/22 10:18
92587090002	**YGWC-41**	Water	02/08/22 16:20	02/09/22 10:18
92587090003	**AMA-DUP-2**	Water	02/08/22 00:00	02/09/22 10:18
92587090004	**YGWC-43**	Water	02/08/22 10:20	02/09/22 10:18
92587090005	**AMA-EB-1**	Water	02/08/22 18:36	02/09/22 10:18
92587090006	**YAMW-5**	Water	02/10/22 11:30	02/11/22 16:45
92587090007	**PZ-37**	Water	02/10/22 13:05	02/11/22 16:45
92587090008	**AMA-DUP-4**	Water	02/10/22 00:00	02/11/22 16:45
92587090009	**PZ-51**	Water	02/10/22 18:10	02/11/22 16:45
92587090010	**YAMW-1**	Water	02/10/22 11:55	02/11/22 16:45
92587090011	**PZ-35**	Water	02/10/22 14:37	02/11/22 16:45
92587090012	**YAMW-4**	Water	02/10/22 12:00	02/11/22 16:45
92587090013	**YGWC-23S**	Water	02/10/22 15:10	02/11/22 16:45
92587090014	**YGWC-38**	Water	02/10/22 09:50	02/11/22 16:45
92587090015	**YGWC-42**	Water	02/10/22 16:35	02/11/22 16:45
92587090016	**YGWC-24SA**	Water	02/10/22 14:40	02/11/22 16:45
92587090017	**AMA-DUP-1**	Water	02/10/22 00:00	02/11/22 16:45
92587090018	**YGWC-36A**	Water	02/11/22 11:19	02/11/22 16:45
92587090019	**YAMW-2**	Water	02/10/22 09:45	02/11/22 16:45
92587090020	**YAMW-3**	Water	02/10/22 15:35	02/11/22 16:45
92587090021	**AMA-EB-2**	Water	02/10/22 12:46	02/11/22 16:45
92587090022	**AMA-FB-1**	Water	02/10/22 15:02	02/11/22 16:45
92587090023	**AMA-FB-2**	Water	02/10/22 16:00	02/11/22 16:45
92587090024	**PZ-37D**	Water	02/11/22 16:35	02/14/22 13:25
92587090025	**PZ-52D**	Water	02/11/22 14:00	02/14/22 13:25

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587090001	**YGWC-49**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090002	**YGWC-41**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090003	**AMA-DUP-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090004	**YGWC-43**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090005	**AMA-EB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090006	**YAMW-5**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090007	**PZ-37**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090008	**AMA-DUP-4**	EPA 6010D	KH	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090009	**PZ-51**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090010	**YAMW-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090011	**PZ-35**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090012	**YAMW-4**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090013	**YGWC-23S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090014	**YGWC-38**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090015	**YGWC-42**	EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090016	**YGWC-24SA**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090017	**AMA-DUP-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090018	**YGWC-36A**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090019	**YAMW-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090020	**YAMW-3**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090021	**AMA-EB-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090022	**AMA-FB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090023	**AMA-FB-2**	EPA 6010D	KH	1

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090024	**PZ-37D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090025	**PZ-52D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587090001	**YGWC-49**					
	Performed by	CUSTOMER			02/09/22 12:32	
	pH	5.79	Std. Units		02/09/22 12:32	
EPA 6010D	Calcium	12.7	mg/L	1.0	02/24/22 22:25	
EPA 6020B	Barium	0.070	mg/L	0.0050	02/25/22 15:29	
EPA 6020B	Beryllium	0.00015J	mg/L	0.00050	02/25/22 15:29	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	02/25/22 15:29	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/25/22 15:29	
EPA 6020B	Selenium	0.0075	mg/L	0.0050	02/25/22 15:29	
SM 2540C-2015	Total Dissolved Solids	164	mg/L	10.0	02/14/22 15:19	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/15/22 07:19	
EPA 300.0 Rev 2.1 1993	Sulfate	73.9	mg/L	1.0	02/15/22 07:19	
92587090002	**YGWC-41**					
	Performed by	CUSTOMER			02/09/22 12:32	
	pH	5.07	Std. Units		02/09/22 12:32	
EPA 6010D	Calcium	15.0	mg/L	1.0	02/24/22 22:29	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/25/22 15:35	
EPA 6020B	Barium	0.021	mg/L	0.0050	02/25/22 15:35	
EPA 6020B	Beryllium	0.0016	mg/L	0.00050	02/25/22 15:35	
EPA 6020B	Boron	4.0	mg/L	0.040	02/25/22 15:35	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/25/22 15:35	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	02/25/22 15:35	
EPA 6020B	Selenium	0.031	mg/L	0.0050	02/25/22 15:35	
SM 2540C-2015	Total Dissolved Solids	226	mg/L	10.0	02/14/22 15:19	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/15/22 07:33	
EPA 300.0 Rev 2.1 1993	Sulfate	109	mg/L	3.0	02/15/22 17:05	
92587090003	**AMA-DUP-2**					
EPA 6010D	Calcium	14.6	mg/L	1.0	02/24/22 22:34	M1
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	02/25/22 15:59	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/25/22 15:59	
EPA 6020B	Barium	0.021	mg/L	0.0050	02/25/22 15:59	
EPA 6020B	Beryllium	0.0017	mg/L	0.00050	02/25/22 15:59	
EPA 6020B	Boron	4.1	mg/L	0.040	02/25/22 15:59	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/25/22 15:59	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	02/25/22 15:59	
EPA 6020B	Selenium	0.032	mg/L	0.0050	02/25/22 15:59	
SM 2540C-2015	Total Dissolved Solids	235	mg/L	10.0	02/14/22 15:19	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/15/22 07:47	
EPA 300.0 Rev 2.1 1993	Sulfate	107	mg/L	3.0	02/15/22 17:20	
92587090004	**YGWC-43**					
	Performed by	CUSTOMER			02/09/22 12:32	
	pH	5.82	Std. Units		02/09/22 12:32	
EPA 6010D	Calcium	9.9	mg/L	1.0	02/24/22 23:03	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/25/22 16:05	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587090004	**YGWC-43**					
EPA 6020B	Barium	0.029	mg/L	0.0050	02/25/22 16:05	
EPA 6020B	Beryllium	0.00037J	mg/L	0.00050	02/25/22 16:05	
EPA 6020B	Boron	2.3	mg/L	0.040	02/25/22 16:05	
EPA 6020B	Cobalt	0.00045J	mg/L	0.0050	02/25/22 16:05	
EPA 6020B	Lithium	0.016J	mg/L	0.030	02/25/22 16:05	
EPA 6020B	Molybdenum	0.0020J	mg/L	0.010	02/25/22 16:05	
SM 2540C-2015	Total Dissolved Solids	294	mg/L	10.0	02/14/22 15:19	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/15/22 08:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.066J	mg/L	0.10	02/15/22 08:01	
EPA 300.0 Rev 2.1 1993	Sulfate	133	mg/L	3.0	02/15/22 17:34	
92587090005	**AMA-EB-1**					
EPA 6020B	Boron	0.023J	mg/L	0.040	02/25/22 16:11	
SM 2540C-2015	Total Dissolved Solids	12.0	mg/L	10.0	02/14/22 15:20	
92587090006	**YAMW-5**					
	Performed by	CUSTOMER			02/14/22 12:24	
	pH	5.22	Std. Units		02/14/22 12:24	
EPA 6010D	Calcium	40.8	mg/L	1.0	02/24/22 23:13	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/25/22 16:29	
EPA 6020B	Barium	0.034	mg/L	0.0050	02/25/22 16:29	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/25/22 16:29	
EPA 6020B	Boron	4.9	mg/L	0.040	02/25/22 16:29	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	02/25/22 16:29	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	02/25/22 16:29	
EPA 6020B	Lithium	0.015J	mg/L	0.030	02/25/22 16:29	
EPA 6020B	Selenium	0.057	mg/L	0.0050	02/25/22 16:29	
SM 2540C-2015	Total Dissolved Solids	499	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	02/19/22 16:35	
EPA 300.0 Rev 2.1 1993	Sulfate	276	mg/L	6.0	02/21/22 00:42	
92587090007	**PZ-37**					
	Performed by	CUSTOMER			02/14/22 12:25	
	pH	4.93	Std. Units		02/14/22 12:25	
EPA 6010D	Calcium	106	mg/L	1.0	02/24/22 23:18	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/25/22 16:35	
EPA 6020B	Barium	0.029	mg/L	0.0050	02/25/22 16:35	
EPA 6020B	Beryllium	0.0010	mg/L	0.00050	02/25/22 16:35	
EPA 6020B	Boron	9.5	mg/L	0.040	02/25/22 16:35	
EPA 6020B	Cadmium	0.00093	mg/L	0.00050	02/25/22 16:35	
EPA 6020B	Cobalt	0.0036J	mg/L	0.0050	02/25/22 16:35	
EPA 6020B	Lithium	0.017J	mg/L	0.030	02/25/22 16:35	
EPA 6020B	Selenium	0.20	mg/L	0.0050	02/25/22 16:35	
SM 2540C-2015	Total Dissolved Solids	798	mg/L	20.0	02/17/22 16:08	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/19/22 16:48	
EPA 300.0 Rev 2.1 1993	Sulfate	452	mg/L	10.0	02/21/22 00:56	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587090008	**AMA-DUP-4**					
EPA 6010D	Calcium	107	mg/L	1.0	02/24/22 23:22	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/25/22 16:41	
EPA 6020B	Barium	0.029	mg/L	0.0050	02/25/22 16:41	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	02/25/22 16:41	
EPA 6020B	Boron	9.6	mg/L	0.040	02/25/22 16:41	
EPA 6020B	Cadmium	0.00089	mg/L	0.00050	02/25/22 16:41	
EPA 6020B	Cobalt	0.0041J	mg/L	0.0050	02/25/22 16:41	
EPA 6020B	Lithium	0.017J	mg/L	0.030	02/25/22 16:41	
EPA 6020B	Selenium	0.20	mg/L	0.0050	02/25/22 16:41	
SM 2540C-2015	Total Dissolved Solids	772	mg/L	20.0	02/17/22 17:00	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/19/22 17:29	
EPA 300.0 Rev 2.1 1993	Sulfate	475	mg/L	10.0	02/21/22 01:36	
92587090009	**PZ-51**					
	Performed by	CUSTOMER			02/14/22 12:25	
	pH	4.46	Std. Units		02/14/22 12:25	
EPA 6010D	Calcium	54.7	mg/L	1.0	02/24/22 23:27	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	02/25/22 16:47	
EPA 6020B	Barium	0.017	mg/L	0.0050	02/25/22 16:47	
EPA 6020B	Beryllium	0.0033	mg/L	0.00050	02/25/22 16:47	
EPA 6020B	Boron	6.8	mg/L	0.040	02/25/22 16:47	
EPA 6020B	Cadmium	0.0019	mg/L	0.00050	02/25/22 16:47	
EPA 6020B	Cobalt	0.033	mg/L	0.0050	02/25/22 16:47	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/25/22 16:47	
EPA 6020B	Selenium	0.029	mg/L	0.0050	02/25/22 16:47	
SM 2540C-2015	Total Dissolved Solids	574	mg/L	20.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/19/22 17:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/19/22 17:42	
EPA 300.0 Rev 2.1 1993	Sulfate	306	mg/L	7.0	02/21/22 01:49	
92587090010	**YAMW-1**					
	Performed by	CUSTOMER			02/14/22 12:25	
	pH	5.80	Std. Units		02/14/22 12:25	
EPA 6010D	Calcium	21.5	mg/L	1.0	02/24/22 23:32	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	02/25/22 16:53	
EPA 6020B	Barium	0.084	mg/L	0.0050	02/25/22 16:53	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	02/25/22 16:53	
EPA 6020B	Boron	0.36	mg/L	0.040	02/25/22 16:53	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	02/25/22 16:53	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/25/22 16:53	
EPA 6020B	Cobalt	0.011	mg/L	0.0050	02/25/22 16:53	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/25/22 16:53	
EPA 6020B	Molybdenum	0.00089J	mg/L	0.010	02/25/22 16:53	
EPA 6020B	Selenium	0.0034J	mg/L	0.0050	02/25/22 16:53	
SM 2540C-2015	Total Dissolved Solids	281	mg/L	10.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	5.3	mg/L	1.0	02/19/22 17:55	
EPA 300.0 Rev 2.1 1993	Sulfate	120	mg/L	3.0	02/21/22 02:04	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587090011	**PZ-35**					
	Performed by	CUSTOMER			02/14/22 12:25	
	pH	5.35	Std. Units		02/14/22 12:25	
EPA 6010D	Calcium	8.8	mg/L	1.0	02/24/22 23:46	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/25/22 16:59	
EPA 6020B	Barium	0.074	mg/L	0.0050	02/25/22 16:59	
EPA 6020B	Beryllium	0.00055	mg/L	0.00050	02/25/22 16:59	
EPA 6020B	Boron	0.054	mg/L	0.040	02/25/22 16:59	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	02/25/22 16:59	
EPA 6020B	Selenium	0.0030J	mg/L	0.0050	02/25/22 16:59	
SM 2540C-2015	Total Dissolved Solids	130	mg/L	10.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	02/19/22 18:36	
EPA 300.0 Rev 2.1 1993	Sulfate	42.6	mg/L	1.0	02/19/22 18:36	
92587090012	**YAMW-4**					
	Performed by	CUSTOMER			02/14/22 12:25	
	pH	6.10	Std. Units		02/14/22 12:25	
EPA 6010D	Calcium	11.6	mg/L	1.0	02/24/22 23:51	
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/25/22 17:05	
EPA 6020B	Barium	0.0033J	mg/L	0.0050	02/25/22 17:05	
EPA 6020B	Boron	3.0	mg/L	0.040	02/25/22 17:05	
EPA 6020B	Cobalt	0.00044J	mg/L	0.0050	02/25/22 17:05	
EPA 6020B	Lithium	0.036	mg/L	0.030	02/25/22 17:05	
EPA 6020B	Molybdenum	0.0076J	mg/L	0.010	02/25/22 17:05	
EPA 6020B	Selenium	0.019	mg/L	0.0050	02/25/22 17:05	
SM 2540C-2015	Total Dissolved Solids	346	mg/L	10.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	02/19/22 18:49	
EPA 300.0 Rev 2.1 1993	Sulfate	160	mg/L	4.0	02/21/22 02:18	
92587090013	**YGWC-23S**					
	Performed by	CUSTOMER			02/14/22 12:26	
	pH	5.51	Std. Units		02/14/22 12:26	
EPA 6010D	Calcium	11.8	mg/L	1.0	02/24/22 23:56	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	02/25/22 17:11	
EPA 6020B	Barium	0.058	mg/L	0.0050	02/25/22 17:11	
EPA 6020B	Beryllium	0.00023J	mg/L	0.00050	02/25/22 17:11	
EPA 6020B	Boron	1.5	mg/L	0.040	02/25/22 17:11	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	02/25/22 17:11	
EPA 6020B	Selenium	0.039	mg/L	0.0050	02/25/22 17:11	
SM 2540C-2015	Total Dissolved Solids	180	mg/L	10.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.9	mg/L	1.0	02/19/22 19:03	
EPA 300.0 Rev 2.1 1993	Sulfate	78.7	mg/L	1.0	02/19/22 19:03	
92587090014	**YGWC-38**					
	Performed by	CUSTOMER			02/14/22 12:26	
	pH	4.85	Std. Units		02/14/22 12:26	
EPA 6010D	Calcium	68.9	mg/L	1.0	02/25/22 00:01	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587090014	**YGWC-38**					
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/25/22 17:17	
EPA 6020B	Barium	0.016	mg/L	0.0050	02/25/22 17:17	
EPA 6020B	Beryllium	0.0027	mg/L	0.00050	02/25/22 17:17	
EPA 6020B	Boron	5.4	mg/L	0.040	02/25/22 17:17	
EPA 6020B	Cadmium	0.0011	mg/L	0.00050	02/25/22 17:17	
EPA 6020B	Lithium	0.0068J	mg/L	0.030	02/25/22 17:17	
EPA 6020B	Selenium	0.064	mg/L	0.0050	02/25/22 17:17	
SM 2540C-2015	Total Dissolved Solids	541	mg/L	10.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	02/19/22 19:16	
EPA 300.0 Rev 2.1 1993	Sulfate	290	mg/L	6.0	02/21/22 02:59	
92587090015	**YGWC-42**					
	Performed by	CUSTOMER			02/14/22 12:26	
	pH	5.57	Std. Units		02/14/22 12:26	
EPA 6010D	Calcium	74.4	mg/L	1.0	02/25/22 00:06	
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/25/22 17:23	
EPA 6020B	Barium	0.026	mg/L	0.0050	02/25/22 17:23	
EPA 6020B	Beryllium	0.000061J	mg/L	0.00050	02/25/22 17:23	
EPA 6020B	Boron	14.4	mg/L	2.0	02/28/22 16:43	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	02/25/22 17:23	
EPA 6020B	Lithium	0.052	mg/L	0.030	02/25/22 17:23	
EPA 6020B	Molybdenum	0.00080J	mg/L	0.010	02/25/22 17:23	
EPA 6020B	Selenium	0.044	mg/L	0.0050	02/25/22 17:23	
SM 2540C-2015	Total Dissolved Solids	882	mg/L	20.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	02/19/22 19:30	
EPA 300.0 Rev 2.1 1993	Sulfate	485	mg/L	11.0	02/21/22 03:12	
92587090016	**YGWC-24SA**					
	Performed by	CUSTOMER			02/14/22 12:26	
	pH	4.66	Std. Units		02/14/22 12:26	
EPA 6010D	Calcium	2.2	mg/L	1.0	02/25/22 00:11	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/25/22 18:27	
EPA 6020B	Barium	0.026	mg/L	0.0050	02/25/22 18:27	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	02/25/22 18:27	
SM 2540C-2015	Total Dissolved Solids	78.0	mg/L	10.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	8.7	mg/L	1.0	02/19/22 19:43	
92587090017	**AMA-DUP-1**					
EPA 6010D	Calcium	2.2	mg/L	1.0	02/25/22 00:16	
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	02/25/22 18:33	
EPA 6020B	Barium	0.027	mg/L	0.0050	02/25/22 18:33	
EPA 6020B	Beryllium	0.00017J	mg/L	0.00050	02/25/22 18:33	
SM 2540C-2015	Total Dissolved Solids	71.0	mg/L	10.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	8.7	mg/L	1.0	02/21/22 20:19	M1
92587090018	**YGWC-36A**					
	Performed by	CUSTOMER			02/14/22 12:27	

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587090018	**YGWC-36A**					
	pH	5.58	Std. Units		02/14/22 12:27	
EPA 6010D	Calcium	4.6	mg/L	1.0	02/25/22 00:21	
EPA 6020B	Antimony	0.0023J	mg/L	0.0030	02/25/22 18:39	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/25/22 18:39	
EPA 6020B	Barium	0.044	mg/L	0.0050	02/25/22 18:39	
EPA 6020B	Beryllium	0.00043J	mg/L	0.00050	02/25/22 18:39	
EPA 6020B	Boron	0.019J	mg/L	0.040	02/25/22 18:39	
EPA 6020B	Lithium	0.00093J	mg/L	0.030	02/25/22 18:39	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	10.0	02/17/22 17:03	
EPA 300.0 Rev 2.1 1993	Chloride	6.6	mg/L	1.0	02/21/22 20:59	
EPA 300.0 Rev 2.1 1993	Sulfate	16.4	mg/L	1.0	02/21/22 20:59	
92587090019	**YAMW-2**					
	Performed by	CUSTOMER			02/14/22 12:27	
	pH	5.64	Std. Units		02/14/22 12:27	
EPA 6010D	Calcium	1.3	mg/L	1.0	02/25/22 00:26	
EPA 6020B	Barium	0.0074	mg/L	0.0050	02/25/22 18:45	
EPA 6020B	Beryllium	0.000074J	mg/L	0.00050	02/25/22 18:45	
EPA 6020B	Boron	0.022J	mg/L	0.040	02/25/22 18:45	
EPA 6020B	Cobalt	0.00052J	mg/L	0.0050	02/25/22 18:45	
SM 2540C-2015	Total Dissolved Solids	48.0	mg/L	10.0	02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	02/21/22 21:13	
EPA 300.0 Rev 2.1 1993	Sulfate	7.1	mg/L	1.0	02/21/22 21:13	
92587090020	**YAMW-3**					
	Performed by	CUSTOMER			02/14/22 12:27	
	pH	5.93	Std. Units		02/14/22 12:27	
EPA 6010D	Calcium	29.4	mg/L	1.0	02/25/22 01:18	
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/25/22 18:51	
EPA 6020B	Barium	0.038	mg/L	0.0050	02/25/22 18:51	
EPA 6020B	Beryllium	0.000078J	mg/L	0.00050	02/25/22 18:51	
EPA 6020B	Boron	7.7	mg/L	0.040	02/25/22 18:51	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	02/25/22 18:51	
EPA 6020B	Cobalt	0.16	mg/L	0.0050	02/25/22 18:51	
EPA 6020B	Lithium	0.054	mg/L	0.030	02/25/22 18:51	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	02/25/22 18:51	
SM 2540C-2015	Total Dissolved Solids	606	mg/L	20.0	02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/21/22 21:26	
EPA 300.0 Rev 2.1 1993	Sulfate	305	mg/L	7.0	02/22/22 13:12	
92587090021	**AMA-EB-2**					
SM 2540C-2015	Total Dissolved Solids	19.0	mg/L	10.0	02/17/22 17:02	
92587090024	**PZ-37D**					
	Performed by	CUSTOMER			02/14/22 15:02	
	pH	7.84	Std. Units		02/14/22 15:02	
EPA 6010D	Calcium	49.0	mg/L	1.0	02/25/22 02:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587090024	**PZ-37D**					
EPA 6020B	Barium	0.013	mg/L	0.0050	02/24/22 20:06	
EPA 6020B	Boron	0.44	mg/L	0.040	02/24/22 20:06	
EPA 6020B	Lithium	0.0087J	mg/L	0.030	02/24/22 20:06	
EPA 6020B	Molybdenum	0.0037J	mg/L	0.010	02/24/22 20:06	
SM 2540C-2015	Total Dissolved Solids	382	mg/L	10.0	02/18/22 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	12.5	mg/L	1.0	02/22/22 02:10	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	02/22/22 02:10	M1
EPA 300.0 Rev 2.1 1993	Sulfate	115	mg/L	3.0	02/22/22 13:55	
92587090025	**PZ-52D**					
	Performed by	CUSTOMER			02/14/22 15:02	
	pH	6.40	Std. Units		02/14/22 15:02	
EPA 6010D	Calcium	27.3	mg/L	1.0	02/25/22 02:49	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 20:12	B
EPA 6020B	Barium	0.032	mg/L	0.0050	02/24/22 20:12	
EPA 6020B	Beryllium	0.000059J	mg/L	0.00050	02/24/22 20:12	
EPA 6020B	Boron	0.84	mg/L	0.040	02/24/22 20:12	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	02/24/22 20:12	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	02/24/22 20:12	
EPA 6020B	Lead	0.0031	mg/L	0.0010	02/24/22 20:12	
EPA 6020B	Lithium	0.015J	mg/L	0.030	02/24/22 20:12	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	02/24/22 20:12	
EPA 6020B	Selenium	0.0025J	mg/L	0.0050	02/24/22 20:12	
SM 2540C-2015	Total Dissolved Solids	456	mg/L	10.0	02/18/22 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	02/22/22 02:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/22/22 02:50	
EPA 300.0 Rev 2.1 1993	Sulfate	209	mg/L	5.0	02/22/22 20:39	

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ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-49 **Lab ID: 92587090001** Collected: 02/08/22 18:00 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:32		
pH	**5.79**	Std. Units			1		02/09/22 12:32		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**12.7**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 22:25	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	0.00078	1	02/24/22 09:35	02/25/22 15:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 15:29	7440-38-2	
Barium	**0.070**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 15:29	7440-39-3	
Beryllium	**0.00015J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 15:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 15:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 15:29	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 15:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 15:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 15:29	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 15:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 15:29	7439-98-7	
Selenium	**0.0075**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 15:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 15:29	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	02/16/22 08:30	02/16/22 14:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**164**	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		02/15/22 07:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 07:19	16984-48-8	
Sulfate	**73.9**	mg/L	1.0	0.50	1		02/15/22 07:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-41 **Lab ID: 92587090002** Collected: 02/08/22 16:20 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:32		
pH	**5.07**	Std. Units			1		02/09/22 12:32		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**15.0**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 22:29	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	0.00078	1	02/24/22 09:35	02/25/22 15:35	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 15:35	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 15:35	7440-39-3	
Beryllium	**0.0016**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 15:35	7440-41-7	
Boron	**4.0**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 15:35	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 15:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 15:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 15:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 15:35	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 15:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 15:35	7439-98-7	
Selenium	**0.031**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 15:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 15:35	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	02/16/22 08:30	02/16/22 14:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**226**	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		02/15/22 07:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 07:33	16984-48-8	
Sulfate	**109**	mg/L	3.0	1.5	3		02/15/22 17:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: AMA-DUP-2 **Lab ID: 92587090003** Collected: 02/08/22 00:00 Received: 02/09/22 10:18 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	**14.6**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 22:34	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0018J**	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 15:59	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 15:59	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 15:59	7440-39-3	
Beryllium	**0.0017**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 15:59	7440-41-7	
Boron	**4.1**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 15:59	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 15:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 15:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 15:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 15:59	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 15:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 15:59	7439-98-7	
Selenium	**0.032**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 15:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 15:59	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	02/16/22 08:30	02/16/22 14:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**235**	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		02/15/22 07:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 07:47	16984-48-8	
Sulfate	**107**	mg/L	3.0	1.5	3		02/15/22 17:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-43 **Lab ID: 92587090004** Collected: 02/08/22 10:20 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:32		
pH	**5.82**	Std. Units			1		02/09/22 12:32		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.9**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:03	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	0.00078	1	02/24/22 09:35	02/25/22 16:05	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:05	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:05	7440-39-3	
Beryllium	**0.00037J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:05	7440-41-7	
Boron	**2.3**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:05	7440-47-3	
Cobalt	**0.00045J**	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:05	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:05	7439-93-2	
Molybdenum	**0.0020J**	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 16:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:05	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	02/16/22 08:30	02/16/22 14:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**294**	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		02/15/22 08:01	16887-00-6	
Fluoride	**0.066J**	mg/L	0.10	0.050	1		02/15/22 08:01	16984-48-8	
Sulfate	**133**	mg/L	3.0	1.5	3		02/15/22 17:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: AMA-EB-1 **Lab ID: 92587090005** Collected: 02/08/22 18:36 Received: 02/09/22 10:18 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	02/24/22 09:40	02/24/22 23:08	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	0.00078	1	02/24/22 09:35	02/25/22 16:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:11	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:11	7440-41-7	
Boron	**0.023J**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 16:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:11	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	02/16/22 08:30	02/16/22 14:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**12.0**	mg/L	10.0	10.0	1		02/14/22 15:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/15/22 08:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 08:42	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/15/22 08:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YAMW-5 **Lab ID: 92587090006** Collected: 02/10/22 11:30 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:24		
pH	**5.22**	Std. Units			1		02/14/22 12:24		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**40.8**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:13	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	0.00078	1	02/24/22 09:35	02/25/22 16:29	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:29	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:29	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:29	7440-41-7	
Boron	**4.9**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:29	7440-42-8	
Cadmium	**0.00022J**	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:29	7440-43-9	
Chromium	**0.0016J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:29	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 16:29	7439-98-7	
Selenium	**0.057**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:29	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	02/21/22 14:30	02/22/22 10:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**499**	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.9**	mg/L	1.0	0.60	1		02/19/22 16:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:35	16984-48-8	
Sulfate	**276**	mg/L	6.0	3.0	6		02/21/22 00:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: PZ-37 **Lab ID: 92587090007** Collected: 02/10/22 13:05 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:25		
pH	**4.93**	Std. Units			1		02/14/22 12:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**106**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:18	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	0.00078	1	02/24/22 09:35	02/25/22 16:35	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:35	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:35	7440-39-3	
Beryllium	**0.0010**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:35	7440-41-7	
Boron	**9.5**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:35	7440-42-8	
Cadmium	**0.00093**	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:35	7440-47-3	
Cobalt	**0.0036J**	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:35	7439-92-1	
Lithium	**0.017J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 16:35	7439-98-7	
Selenium	**0.20**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:35	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	02/21/22 14:30	02/22/22 10:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**798**	mg/L	20.0	20.0	1		02/17/22 16:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		02/19/22 16:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:48	16984-48-8	M1
Sulfate	**452**	mg/L	10.0	5.0	10		02/21/22 00:56	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: AMA-DUP-4 **Lab ID: 92587090008** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 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	**107**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:22	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	0.00078	1	02/24/22 09:35	02/25/22 16:41	7440-36-0	
Arsenic	**0.0018J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:41	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:41	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:41	7440-41-7	
Boron	**9.6**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:41	7440-42-8	
Cadmium	**0.00089**	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:41	7440-47-3	
Cobalt	**0.0041J**	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:41	7439-92-1	
Lithium	**0.017J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 16:41	7439-98-7	
Selenium	**0.20**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:41	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	02/21/22 14:45	02/22/22 11:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**772**	mg/L	20.0	20.0	1		02/17/22 17:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		02/19/22 17:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 17:29	16984-48-8	
Sulfate	**475**	mg/L	10.0	5.0	10		02/21/22 01:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: PZ-51 **Lab ID: 92587090009** Collected: 02/10/22 18:10 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:25		
pH	**4.46**	Std. Units			1		02/14/22 12:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**54.7**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:27	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	0.00078	1	02/24/22 09:35	02/25/22 16:47	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:47	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:47	7440-39-3	
Beryllium	**0.0033**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:47	7440-41-7	
Boron	**6.8**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:47	7440-42-8	
Cadmium	**0.0019**	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:47	7440-47-3	
Cobalt	**0.033**	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:47	7439-92-1	
Lithium	**0.0060J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 16:47	7439-98-7	
Selenium	**0.029**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:47	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	02/21/22 14:45	02/22/22 11:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**574**	mg/L	20.0	20.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		02/19/22 17:42	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/19/22 17:42	16984-48-8	
Sulfate	**306**	mg/L	7.0	3.5	7		02/21/22 01:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YAMW-1 **Lab ID: 92587090010** Collected: 02/10/22 11:55 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:25		
pH	**5.80**	Std. Units			1		02/14/22 12:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**21.5**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:32	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	0.00078	1	02/24/22 09:35	02/25/22 16:53	7440-36-0	
Arsenic	**0.0023J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:53	7440-38-2	
Barium	**0.084**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:53	7440-39-3	
Beryllium	**0.00016J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:53	7440-41-7	
Boron	**0.36**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:53	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:53	7440-43-9	
Chromium	**0.0013J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:53	7440-47-3	
Cobalt	**0.011**	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:53	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:53	7439-93-2	
Molybdenum	**0.00089J**	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 16:53	7439-98-7	
Selenium	**0.0034J**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:53	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	02/21/22 14:45	02/22/22 11:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**281**	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.3**	mg/L	1.0	0.60	1		02/19/22 17:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 17:55	16984-48-8	
Sulfate	**120**	mg/L	3.0	1.5	3		02/21/22 02:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: PZ-35 **Lab ID: 92587090011** Collected: 02/10/22 14:37 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:25		
pH	**5.35**	Std. Units			1		02/14/22 12:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**8.8**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:46	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	0.00078	1	02/24/22 09:35	02/25/22 16:59	7440-36-0	
Arsenic	**0.0018J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:59	7440-38-2	
Barium	**0.074**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:59	7440-39-3	
Beryllium	**0.00055**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:59	7440-41-7	
Boron	**0.054**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:59	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 16:59	7439-98-7	
Selenium	**0.0030J**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:59	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	02/21/22 14:45	02/22/22 11:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**130**	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		02/19/22 18:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 18:36	16984-48-8	
Sulfate	**42.6**	mg/L	1.0	0.50	1		02/19/22 18:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YAMW-4 **Lab ID: 92587090012** Collected: 02/10/22 12:00 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:25		
pH	**6.10**	Std. Units			1		02/14/22 12:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.6**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:51	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	0.00078	1	02/24/22 09:35	02/25/22 17:05	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:05	7440-38-2	
Barium	**0.0033J**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 17:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 17:05	7440-41-7	
Boron	**3.0**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 17:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 17:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:05	7440-47-3	
Cobalt	**0.00044J**	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 17:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 17:05	7439-92-1	
Lithium	**0.036**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 17:05	7439-93-2	
Molybdenum	**0.0076J**	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 17:05	7439-98-7	
Selenium	**0.019**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 17:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 17:05	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	02/21/22 14:45	02/22/22 11:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**346**	mg/L	10.0	10.0	1		02/17/22 17:01		
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		02/19/22 18:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 18:49	16984-48-8	
Sulfate	**160**	mg/L	4.0	2.0	4		02/21/22 02:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-23S **Lab ID: 92587090013** Collected: 02/10/22 15:10 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:26		
pH	**5.51**	Std. Units			1		02/14/22 12:26		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.8**	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:56	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	0.00078	1	02/24/22 09:35	02/25/22 17:11	7440-36-0	
Arsenic	**0.0025J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:11	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 17:11	7440-39-3	
Beryllium	**0.00023J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 17:11	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 17:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 17:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 17:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 17:11	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 17:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 17:11	7439-98-7	
Selenium	**0.039**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 17:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 17:11	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	02/21/22 14:45	02/22/22 11:29	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**180**	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.9**	mg/L	1.0	0.60	1		02/19/22 19:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 19:03	16984-48-8	
Sulfate	**78.7**	mg/L	1.0	0.50	1		02/19/22 19:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-38 **Lab ID: 92587090014** Collected: 02/10/22 09:50 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:26		
pH	**4.85**	Std. Units			1		02/14/22 12:26		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**68.9**	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:01	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	0.00078	1	02/24/22 09:35	02/25/22 17:17	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:17	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 17:17	7440-39-3	
Beryllium	**0.0027**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 17:17	7440-41-7	
Boron	**5.4**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 17:17	7440-42-8	
Cadmium	**0.0011**	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 17:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 17:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 17:17	7439-92-1	
Lithium	**0.0068J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 17:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 17:17	7439-98-7	
Selenium	**0.064**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 17:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 17:17	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	02/21/22 14:30	02/22/22 09:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**541**	mg/L	10.0	10.0	1		02/17/22 17:01		
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		02/19/22 19:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 19:16	16984-48-8	
Sulfate	**290**	mg/L	6.0	3.0	6		02/21/22 02:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-42 **Lab ID: 92587090015** Collected: 02/10/22 16:35 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:26		
pH	**5.57**	Std. Units			1		02/14/22 12:26		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**74.4**	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:06	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	0.00078	1	02/24/22 09:35	02/25/22 17:23	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:23	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 17:23	7440-39-3	
Beryllium	**0.000061J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 17:23	7440-41-7	
Boron	**14.4**	mg/L	2.0	0.43	50	02/24/22 09:35	02/28/22 16:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 17:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:23	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 17:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 17:23	7439-92-1	
Lithium	**0.052**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 17:23	7439-93-2	
Molybdenum	**0.00080J**	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 17:23	7439-98-7	
Selenium	**0.044**	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 17:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 17:23	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	02/21/22 14:30	02/22/22 09:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**882**	mg/L	20.0	20.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.3**	mg/L	1.0	0.60	1		02/19/22 19:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 19:30	16984-48-8	
Sulfate	**485**	mg/L	11.0	5.5	11		02/21/22 03:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-24SA **Lab ID: 92587090016** Collected: 02/10/22 14:40 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:26		
pH	**4.66**	Std. Units			1		02/14/22 12:26		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.2**	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:11	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	0.00078	1	02/24/22 09:35	02/25/22 18:27	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:27	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 18:27	7440-39-3	
Beryllium	**0.00016J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 18:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 18:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 18:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 18:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 18:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 18:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 18:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 18:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 18:27	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	02/21/22 14:30	02/22/22 09:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**78.0**	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.7**	mg/L	1.0	0.60	1		02/19/22 19:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 19:43	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 19:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: AMA-DUP-1 **Lab ID: 92587090017** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.2**	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:16	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	0.00078	1	02/24/22 09:35	02/25/22 18:33	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:33	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 18:33	7440-39-3	
Beryllium	**0.00017J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 18:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 18:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 18:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 18:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 18:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 18:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 18:33	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	02/21/22 14:30	02/22/22 09:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**71.0**	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.7**	mg/L	1.0	0.60	1		02/21/22 20:19	16887-00-6	M1
Fluoride	ND	mg/L	0.10	0.050	1		02/21/22 20:19	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		02/21/22 20:19	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-36A **Lab ID: 92587090018** Collected: 02/11/22 11:19 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:27		
pH	**5.58**	Std. Units			1		02/14/22 12:27		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**4.6**	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:21	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0023J**	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 18:39	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:39	7440-38-2	
Barium	**0.044**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 18:39	7440-39-3	
Beryllium	**0.00043J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 18:39	7440-41-7	
Boron	**0.019J**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 18:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 18:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 18:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 18:39	7439-92-1	
Lithium	**0.00093J**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 18:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 18:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 18:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 18:39	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	02/21/22 14:30	02/22/22 09:43	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	10.0	10.0	1		02/17/22 17:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.6**	mg/L	1.0	0.60	1		02/21/22 20:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/21/22 20:59	16984-48-8	
Sulfate	**16.4**	mg/L	1.0	0.50	1		02/21/22 20:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YAMW-2 **Lab ID: 92587090019** Collected: 02/10/22 09:45 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:27		
pH	**5.64**	Std. Units			1		02/14/22 12:27		
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	02/24/22 09:40	02/25/22 00:26	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	0.00078	1	02/24/22 09:35	02/25/22 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:45	7440-38-2	
Barium	**0.0074**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 18:45	7440-39-3	
Beryllium	**0.000074J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 18:45	7440-41-7	
Boron	**0.022J**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 18:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:45	7440-47-3	
Cobalt	**0.00052J**	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 18:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 18:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 18:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 18:45	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	02/21/22 14:30	02/22/22 09:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**48.0**	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.5**	mg/L	1.0	0.60	1		02/21/22 21:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/21/22 21:13	16984-48-8	
Sulfate	**7.1**	mg/L	1.0	0.50	1		02/21/22 21:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YAMW-3 **Lab ID: 92587090020** Collected: 02/10/22 15:35 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 12:27		
pH	**5.93**	Std. Units			1		02/14/22 12:27		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**29.4**	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:18	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	0.00078	1	02/24/22 09:35	02/25/22 18:51	7440-36-0	
Arsenic	**0.0038J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:51	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 18:51	7440-39-3	
Beryllium	**0.000078J**	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 18:51	7440-41-7	
Boron	**7.7**	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 18:51	7440-43-9	
Chromium	**0.0011J**	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:51	7440-47-3	
Cobalt	**0.16**	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 18:51	7439-92-1	
Lithium	**0.054**	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 18:51	7439-93-2	
Molybdenum	**0.0036J**	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 18:51	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	02/21/22 14:30	02/22/22 09:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**606**	mg/L	20.0	20.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		02/21/22 21:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/21/22 21:26	16984-48-8	
Sulfate	**305**	mg/L	7.0	3.5	7		02/22/22 13:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: AMA-EB-2 **Lab ID: 92587090021** Collected: 02/10/22 12:46 Received: 02/11/22 16:45 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	02/24/22 10:47	02/25/22 01:23	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	0.00078	1	02/24/22 12:07	02/24/22 18:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 18:48	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 18:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 18:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 18:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 18:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 18:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 18:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 18:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 18:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 18:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 18:48	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	02/21/22 14:30	02/22/22 09:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**19.0**	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/21/22 21:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/21/22 21:40	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/21/22 21:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: AMA-FB-1 **Lab ID: 92587090022** Collected: 02/10/22 15:02 Received: 02/11/22 16:45 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	02/24/22 10:47	02/25/22 01:37	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	0.00078	1	02/24/22 12:07	02/24/22 18:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 18:54	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 18:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 18:54	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 18:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 18:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 18:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 18:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 18:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 18:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 18:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 18:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 18:54	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	02/21/22 14:30	02/22/22 09:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/22/22 00:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/22/22 00:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/22/22 00:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: AMA-FB-2 **Lab ID: 92587090023** Collected: 02/10/22 16:00 Received: 02/11/22 16:45 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	02/24/22 10:47	02/25/22 01:42	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	0.00078	1	02/24/22 12:07	02/24/22 19:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:00	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:00	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:00	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	02/21/22 14:30	02/22/22 10:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/22/22 01:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/22/22 01:16	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/22/22 01:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: PZ-37D **Lab ID: 92587090024** Collected: 02/11/22 16:35 Received: 02/14/22 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 15:02		
pH	**7.84**	Std. Units			1		02/14/22 15:02		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**49.0**	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:44	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	0.00078	1	02/24/22 12:07	02/24/22 20:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:06	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:06	7440-41-7	
Boron	**0.44**	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:06	7439-92-1	
Lithium	**0.0087J**	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:06	7439-93-2	
Molybdenum	**0.0037J**	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:06	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	02/21/22 14:30	02/22/22 10:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**382**	mg/L	10.0	10.0	1		02/18/22 17:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.5**	mg/L	1.0	0.60	1		02/22/22 02:10	16887-00-6	M1
Fluoride	**0.17**	mg/L	0.10	0.050	1		02/22/22 02:10	16984-48-8	M1
Sulfate	**115**	mg/L	3.0	1.5	3		02/22/22 13:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: PZ-52D **Lab ID: 92587090025** Collected: 02/11/22 14:00 Received: 02/14/22 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 15:02		
pH	**6.40**	Std. Units			1		02/14/22 15:02		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**27.3**	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:49	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	0.00078	1	02/24/22 12:07	02/24/22 20:12	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:12	7440-38-2	B
Barium	**0.032**	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:12	7440-39-3	
Beryllium	**0.000059J**	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:12	7440-41-7	
Boron	**0.84**	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:12	7440-43-9	
Chromium	**0.0011J**	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:12	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:12	7440-48-4	
Lead	**0.0031**	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:12	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:12	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:12	7439-98-7	
Selenium	**0.0025J**	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:12	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	02/21/22 14:30	02/22/22 10:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**456**	mg/L	10.0	10.0	1		02/18/22 17:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.7**	mg/L	1.0	0.60	1		02/22/22 02:50	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/22/22 02:50	16984-48-8	
Sulfate	**209**	mg/L	5.0	2.5	5		02/22/22 20:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 680455
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005, 92587090006, 92587090007, 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014, 92587090015, 92587090016, 92587090017, 92587090018, 92587090019

METHOD BLANK: 3560249
Matrix: Water
Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005, 92587090006, 92587090007, 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014, 92587090015, 92587090016, 92587090017, 92587090018, 92587090019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/24/22 22:15	

LABORATORY CONTROL SAMPLE: 3560250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560251 3560252

Parameter	Units	92587090003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	14.6	1	1	15.5	15.3	81	70	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 680603 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587090020, 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

METHOD BLANK: 3560577 Matrix: Water
Associated Lab Samples: 92587090020, 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	0.25J	1.0	0.12	02/25/22 00:50	

LABORATORY CONTROL SAMPLE: 3560578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560579 3560580

Parameter	Units	92587319001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	73.3	1	1	76.6	76.5	326	322	75-125	0	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 680454
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005, 92587090006, 92587090007, 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014, 92587090015, 92587090016, 92587090017, 92587090018, 92587090019, 92587090020

METHOD BLANK: 3560242
Matrix: Water
Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005, 92587090006, 92587090007, 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014, 92587090015, 92587090016, 92587090017, 92587090018, 92587090019, 92587090020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/25/22 15:17	
Arsenic	mg/L	ND	0.0050	0.0011	02/25/22 15:17	
Barium	mg/L	ND	0.0050	0.00067	02/25/22 15:17	
Beryllium	mg/L	ND	0.00050	0.000054	02/25/22 15:17	
Boron	mg/L	ND	0.040	0.0086	02/25/22 15:17	
Cadmium	mg/L	ND	0.00050	0.00011	02/25/22 15:17	
Chromium	mg/L	ND	0.0050	0.0011	02/25/22 15:17	
Cobalt	mg/L	ND	0.0050	0.00039	02/25/22 15:17	
Lead	mg/L	ND	0.0010	0.00089	02/25/22 15:17	
Lithium	mg/L	ND	0.030	0.00073	02/25/22 15:17	
Molybdenum	mg/L	ND	0.010	0.00074	02/25/22 15:17	
Selenium	mg/L	ND	0.0050	0.0014	02/25/22 15:17	
Thallium	mg/L	ND	0.0010	0.00018	02/25/22 15:17	

LABORATORY CONTROL SAMPLE: 3560243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	108	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560244 3560245

Parameter	Units	92587090002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	102	109	75-125	6	20	
Arsenic	mg/L	0.0021J	0.1	0.1	0.10	0.10	99	102	75-125	2	20	
Barium	mg/L	0.021	0.1	0.1	0.12	0.12	96	103	75-125	6	20	
Beryllium	mg/L	0.0016	0.1	0.1	0.11	0.12	106	115	75-125	7	20	
Boron	mg/L	4.0	1	1	5.1	5.2	107	121	75-125	3	20	
Cadmium	mg/L	0.00012J	0.1	0.1	0.10	0.10	101	104	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	101	106	75-125	5	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.10	96	102	75-125	6	20	
Lithium	mg/L	0.0023J	0.1	0.1	0.11	0.12	103	113	75-125	9	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	101	105	75-125	4	20	
Selenium	mg/L	0.031	0.1	0.1	0.13	0.13	100	104	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.10	96	101	75-125	5	20	

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 680607
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

METHOD BLANK: 3560596 Matrix: Water
Associated Lab Samples: 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/22 17:42	
Arsenic	mg/L	0.0021J	0.0050	0.0011	02/24/22 17:42	
Barium	mg/L	ND	0.0050	0.00067	02/24/22 17:42	
Beryllium	mg/L	ND	0.00050	0.000054	02/24/22 17:42	
Boron	mg/L	ND	0.040	0.0086	02/24/22 17:42	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/22 17:42	
Chromium	mg/L	ND	0.0050	0.0011	02/24/22 17:42	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/22 17:42	
Lead	mg/L	ND	0.0010	0.00089	02/24/22 17:42	
Lithium	mg/L	ND	0.030	0.00073	02/24/22 17:42	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/22 17:42	
Selenium	mg/L	ND	0.0050	0.0014	02/24/22 17:42	
Thallium	mg/L	ND	0.0010	0.00018	02/24/22 17:42	

LABORATORY CONTROL SAMPLE: 3560597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560598 3560599

Parameter	Units	92587319001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	105	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20	

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560598 3560599

Parameter	Units	92587319001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.053	0.1	0.1	0.16	0.16	103	110	75-125	5	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.10	97	102	75-125	5	20	
Boron	mg/L	0.19	1	1	1.2	1.2	100	105	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.10	97	102	75-125	5	20	
Chromium	mg/L	0.0016J	0.1	0.1	0.10	0.11	100	104	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.094	0.098	94	98	75-125	4	20	
Molybdenum	mg/L	0.0012J	0.1	0.1	0.095	0.10	94	100	75-125	6	20	
Selenium	mg/L	0.0015J	0.1	0.1	0.098	0.099	97	98	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 678404
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

METHOD BLANK: 3550196 Matrix: Water
Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/16/22 13:25	

LABORATORY CONTROL SAMPLE: 3550197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550198 3550199

Parameter	Units	92586436031 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	0.0020	0.0023	78	93	75-125	18	20	

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679675 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013

METHOD BLANK: 3556124 Matrix: Water
Associated Lab Samples: 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/22/22 10:33	

LABORATORY CONTROL SAMPLE: 3556125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556126 3556127

Parameter	Units	92587091020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0026	96	101	75-125	5	20	

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679677
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587090006, 92587090007, 92587090014, 92587090015, 92587090016, 92587090017, 92587090018, 92587090019, 92587090020, 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

METHOD BLANK: 3556138
Matrix: Water
Associated Lab Samples: 92587090006, 92587090007, 92587090014, 92587090015, 92587090016, 92587090017, 92587090018, 92587090019, 92587090020, 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/22/22 09:19	

LABORATORY CONTROL SAMPLE: 3556139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556140 3556141

Parameter	Units	92587090014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 678110 | 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: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

METHOD BLANK: 3548928 Matrix: Water
Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/14/22 15:13	

LABORATORY CONTROL SAMPLE: 3548929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3548930

Parameter	Units	92587701001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	297	1	25	

SAMPLE DUPLICATE: 3548931

Parameter	Units	92587089005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679091
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587090006, 92587090007

METHOD BLANK: 3553375 Matrix: Water
Associated Lab Samples: 92587090006, 92587090007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/17/22 16:05	

LABORATORY CONTROL SAMPLE: 3553376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3553377

Parameter	Units	92587319023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	300	0	25	

SAMPLE DUPLICATE: 3553378

Parameter	Units	92587089012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	186	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679094
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014, 92587090015, 92587090016, 92587090017, 92587090018, 92587090019, 92587090020, 92587090021, 92587090022, 92587090023

METHOD BLANK: 3553381 Matrix: Water
Associated Lab Samples: 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014, 92587090015, 92587090016, 92587090017, 92587090018, 92587090019, 92587090020, 92587090021, 92587090022, 92587090023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/17/22 17:00	

LABORATORY CONTROL SAMPLE: 3553382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	365	91	80-120	

SAMPLE DUPLICATE: 3553383

Parameter	Units	92587090008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	772	800	4	25	

SAMPLE DUPLICATE: 3553384

Parameter	Units	92587090019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48.0	58.0	19	25	

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679320
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587090024, 92587090025

METHOD BLANK: 3554464 Matrix: Water
Associated Lab Samples: 92587090024, 92587090025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/18/22 17:46	

LABORATORY CONTROL SAMPLE: 3554465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	368	92	80-120	

SAMPLE DUPLICATE: 3554466

Parameter	Units	92587090024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	382	370	3	25	

SAMPLE DUPLICATE: 3554467

Parameter	Units	92587881022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	618	588	5	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 678235
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

METHOD BLANK: 3549593 Matrix: Water
Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 01:58	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 01:58	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 01:58	

LABORATORY CONTROL SAMPLE: 3549594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.8	104	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549595 3549596

Parameter	Units	92585602018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.2	50	50	64.0	63.6	108	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	105	90-110	1	10	
Sulfate	mg/L	20.0	50	50	73.7	73.7	107	107	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549597 3549598

Parameter	Units	92587089005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.3	53.6	105	107	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	3	10	
Sulfate	mg/L	ND	50	50	52.2	53.5	104	107	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679365
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587090006, 92587090007, 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014, 92587090015, 92587090016

METHOD BLANK: 3554816 Matrix: Water
Associated Lab Samples: 92587090006, 92587090007, 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014, 92587090015, 92587090016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/19/22 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/19/22 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/19/22 13:13	

LABORATORY CONTROL SAMPLE: 3554817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554818 3554819

Parameter	Units	92587091018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.4	50	50	54.8	55.6	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	106	90-110	2	10	
Sulfate	mg/L	2.4	50	50	52.5	53.6	100	102	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554820 3554821

Parameter	Units	92587090007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.2	50	50	55.9	56.1	103	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	3.0	3.1	121	123	90-110	1	10	M1
Sulfate	mg/L	452	50	50	488	491	73	78	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679850
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587090017, 92587090018, 92587090019, 92587090020, 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

METHOD BLANK: 3557210 Matrix: Water
Associated Lab Samples: 92587090017, 92587090018, 92587090019, 92587090020, 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/21/22 19:52	
Fluoride	mg/L	ND	0.10	0.050	02/21/22 19:52	
Sulfate	mg/L	ND	1.0	0.50	02/21/22 19:52	

LABORATORY CONTROL SAMPLE: 3557211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3557212 3557213

Parameter	Units	92587090017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.7	50	50	62.9	64.5	108	112	90-110	3	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.9	3.0	115	119	90-110	3	10	M1
Sulfate	mg/L	ND	50	50	56.2	57.3	112	114	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3557214 3557215

Parameter	Units	92587090024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.5	50	50	66.6	68.4	108	112	90-110	3	10	M1
Fluoride	mg/L	0.17	2.5	2.5	2.9	3.0	108	112	90-110	4	10	M1
Sulfate	mg/L	115	50	50	163	165	95	99	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES AMA-R6
Pace Project No.: 92587090

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.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587090001	**YGWC-49**				
92587090002	**YGWC-41**				
92587090004	**YGWC-43**				
92587090006	**YAMW-5**				
92587090007	**PZ-37**				
92587090009	**PZ-51**				
92587090010	**YAMW-1**				
92587090011	**PZ-35**				
92587090012	**YAMW-4**				
92587090013	**YGWC-23S**				
92587090014	**YGWC-38**				
92587090015	**YGWC-42**				
92587090016	**YGWC-24SA**				
92587090018	**YGWC-36A**				
92587090019	**YAMW-2**				
92587090020	**YAMW-3**				
92587090024	**PZ-37D**				
92587090025	**PZ-52D**				
92587090001	**YGWC-49**	EPA 3010A	680455	EPA 6010D	680679
92587090002	**YGWC-41**	EPA 3010A	680455	EPA 6010D	680679
92587090003	**AMA-DUP-2**	EPA 3010A	680455	EPA 6010D	680679
92587090004	**YGWC-43**	EPA 3010A	680455	EPA 6010D	680679
92587090005	**AMA-EB-1**	EPA 3010A	680455	EPA 6010D	680679
92587090006	**YAMW-5**	EPA 3010A	680455	EPA 6010D	680679
92587090007	**PZ-37**	EPA 3010A	680455	EPA 6010D	680679
92587090008	**AMA-DUP-4**	EPA 3010A	680455	EPA 6010D	680679
92587090009	**PZ-51**	EPA 3010A	680455	EPA 6010D	680679
92587090010	**YAMW-1**	EPA 3010A	680455	EPA 6010D	680679
92587090011	**PZ-35**	EPA 3010A	680455	EPA 6010D	680679
92587090012	**YAMW-4**	EPA 3010A	680455	EPA 6010D	680679
92587090013	**YGWC-23S**	EPA 3010A	680455	EPA 6010D	680679
92587090014	**YGWC-38**	EPA 3010A	680455	EPA 6010D	680679
92587090015	**YGWC-42**	EPA 3010A	680455	EPA 6010D	680679
92587090016	**YGWC-24SA**	EPA 3010A	680455	EPA 6010D	680679
92587090017	**AMA-DUP-1**	EPA 3010A	680455	EPA 6010D	680679
92587090018	**YGWC-36A**	EPA 3010A	680455	EPA 6010D	680679
92587090019	**YAMW-2**	EPA 3010A	680455	EPA 6010D	680679
92587090020	**YAMW-3**	EPA 3010A	680603	EPA 6010D	680696
92587090021	**AMA-EB-2**	EPA 3010A	680603	EPA 6010D	680696
92587090022	**AMA-FB-1**	EPA 3010A	680603	EPA 6010D	680696
92587090023	**AMA-FB-2**	EPA 3010A	680603	EPA 6010D	680696
92587090024	**PZ-37D**	EPA 3010A	680603	EPA 6010D	680696
92587090025	**PZ-52D**	EPA 3010A	680603	EPA 6010D	680696
92587090001	**YGWC-49**	EPA 3005A	680454	EPA 6020B	680691
92587090002	**YGWC-41**	EPA 3005A	680454	EPA 6020B	680691
92587090003	**AMA-DUP-2**	EPA 3005A	680454	EPA 6020B	680691
92587090004	**YGWC-43**	EPA 3005A	680454	EPA 6020B	680691

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587090005	AMA-EB-1	EPA 3005A	680454	EPA 6020B	680691
92587090006	YAMW-5	EPA 3005A	680454	EPA 6020B	680691
92587090007	PZ-37	EPA 3005A	680454	EPA 6020B	680691
92587090008	AMA-DUP-4	EPA 3005A	680454	EPA 6020B	680691
92587090009	PZ-51	EPA 3005A	680454	EPA 6020B	680691
92587090010	YAMW-1	EPA 3005A	680454	EPA 6020B	680691
92587090011	PZ-35	EPA 3005A	680454	EPA 6020B	680691
92587090012	YAMW-4	EPA 3005A	680454	EPA 6020B	680691
92587090013	YGWC-23S	EPA 3005A	680454	EPA 6020B	680691
92587090014	YGWC-38	EPA 3005A	680454	EPA 6020B	680691
92587090015	YGWC-42	EPA 3005A	680454	EPA 6020B	680691
92587090016	YGWC-24SA	EPA 3005A	680454	EPA 6020B	680691
92587090017	AMA-DUP-1	EPA 3005A	680454	EPA 6020B	680691
92587090018	YGWC-36A	EPA 3005A	680454	EPA 6020B	680691
92587090019	YAMW-2	EPA 3005A	680454	EPA 6020B	680691
92587090020	YAMW-3	EPA 3005A	680454	EPA 6020B	680691
92587090021	AMA-EB-2	EPA 3005A	680607	EPA 6020B	680745
92587090022	AMA-FB-1	EPA 3005A	680607	EPA 6020B	680745
92587090023	AMA-FB-2	EPA 3005A	680607	EPA 6020B	680745
92587090024	PZ-37D	EPA 3005A	680607	EPA 6020B	680745
92587090025	PZ-52D	EPA 3005A	680607	EPA 6020B	680745
92587090001	YGWC-49	EPA 7470A	678404	EPA 7470A	678664
92587090002	YGWC-41	EPA 7470A	678404	EPA 7470A	678664
92587090003	AMA-DUP-2	EPA 7470A	678404	EPA 7470A	678664
92587090004	YGWC-43	EPA 7470A	678404	EPA 7470A	678664
92587090005	AMA-EB-1	EPA 7470A	678404	EPA 7470A	678664
92587090006	YAMW-5	EPA 7470A	679677	EPA 7470A	679818
92587090007	PZ-37	EPA 7470A	679677	EPA 7470A	679818
92587090008	AMA-DUP-4	EPA 7470A	679675	EPA 7470A	679921
92587090009	PZ-51	EPA 7470A	679675	EPA 7470A	679921
92587090010	YAMW-1	EPA 7470A	679675	EPA 7470A	679921
92587090011	PZ-35	EPA 7470A	679675	EPA 7470A	679921
92587090012	YAMW-4	EPA 7470A	679675	EPA 7470A	679921
92587090013	YGWC-23S	EPA 7470A	679675	EPA 7470A	679921
92587090014	YGWC-38	EPA 7470A	679677	EPA 7470A	679818
92587090015	YGWC-42	EPA 7470A	679677	EPA 7470A	679818
92587090016	YGWC-24SA	EPA 7470A	679677	EPA 7470A	679818
92587090017	AMA-DUP-1	EPA 7470A	679677	EPA 7470A	679818
92587090018	YGWC-36A	EPA 7470A	679677	EPA 7470A	679818
92587090019	YAMW-2	EPA 7470A	679677	EPA 7470A	679818
92587090020	YAMW-3	EPA 7470A	679677	EPA 7470A	679818
92587090021	AMA-EB-2	EPA 7470A	679677	EPA 7470A	679818
92587090022	AMA-FB-1	EPA 7470A	679677	EPA 7470A	679818
92587090023	AMA-FB-2	EPA 7470A	679677	EPA 7470A	679818
92587090024	PZ-37D	EPA 7470A	679677	EPA 7470A	679818
92587090025	PZ-52D	EPA 7470A	679677	EPA 7470A	679818

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587090001	**YGWC-49**	SM 2540C-2015	678110		
92587090002	**YGWC-41**	SM 2540C-2015	678110		
92587090003	**AMA-DUP-2**	SM 2540C-2015	678110		
92587090004	**YGWC-43**	SM 2540C-2015	678110		
92587090005	**AMA-EB-1**	SM 2540C-2015	678110		
92587090006	**YAMW-5**	SM 2540C-2015	679091		
92587090007	**PZ-37**	SM 2540C-2015	679091		
92587090008	**AMA-DUP-4**	SM 2540C-2015	679094		
92587090009	**PZ-51**	SM 2540C-2015	679094		
92587090010	**YAMW-1**	SM 2540C-2015	679094		
92587090011	**PZ-35**	SM 2540C-2015	679094		
92587090012	**YAMW-4**	SM 2540C-2015	679094		
92587090013	**YGWC-23S**	SM 2540C-2015	679094		
92587090014	**YGWC-38**	SM 2540C-2015	679094		
92587090015	**YGWC-42**	SM 2540C-2015	679094		
92587090016	**YGWC-24SA**	SM 2540C-2015	679094		
92587090017	**AMA-DUP-1**	SM 2540C-2015	679094		
92587090018	**YGWC-36A**	SM 2540C-2015	679094		
92587090019	**YAMW-2**	SM 2540C-2015	679094		
92587090020	**YAMW-3**	SM 2540C-2015	679094		
92587090021	**AMA-EB-2**	SM 2540C-2015	679094		
92587090022	**AMA-FB-1**	SM 2540C-2015	679094		
92587090023	**AMA-FB-2**	SM 2540C-2015	679094		
92587090024	**PZ-37D**	SM 2540C-2015	679320		
92587090025	**PZ-52D**	SM 2540C-2015	679320		
92587090001	**YGWC-49**	EPA 300.0 Rev 2.1 1993	678235		
92587090002	**YGWC-41**	EPA 300.0 Rev 2.1 1993	678235		
92587090003	**AMA-DUP-2**	EPA 300.0 Rev 2.1 1993	678235		
92587090004	**YGWC-43**	EPA 300.0 Rev 2.1 1993	678235		
92587090005	**AMA-EB-1**	EPA 300.0 Rev 2.1 1993	678235		
92587090006	**YAMW-5**	EPA 300.0 Rev 2.1 1993	679365		
92587090007	**PZ-37**	EPA 300.0 Rev 2.1 1993	679365		
92587090008	**AMA-DUP-4**	EPA 300.0 Rev 2.1 1993	679365		
92587090009	**PZ-51**	EPA 300.0 Rev 2.1 1993	679365		
92587090010	**YAMW-1**	EPA 300.0 Rev 2.1 1993	679365		
92587090011	**PZ-35**	EPA 300.0 Rev 2.1 1993	679365		
92587090012	**YAMW-4**	EPA 300.0 Rev 2.1 1993	679365		
92587090013	**YGWC-23S**	EPA 300.0 Rev 2.1 1993	679365		
92587090014	**YGWC-38**	EPA 300.0 Rev 2.1 1993	679365		
92587090015	**YGWC-42**	EPA 300.0 Rev 2.1 1993	679365		
92587090016	**YGWC-24SA**	EPA 300.0 Rev 2.1 1993	679365		
92587090017	**AMA-DUP-1**	EPA 300.0 Rev 2.1 1993	679850		
92587090018	**YGWC-36A**	EPA 300.0 Rev 2.1 1993	679850		
92587090019	**YAMW-2**	EPA 300.0 Rev 2.1 1993	679850		
92587090020	**YAMW-3**	EPA 300.0 Rev 2.1 1993	679850		
92587090021	**AMA-EB-2**	EPA 300.0 Rev 2.1 1993	679850		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587090022	**AMA-FB-1**	EPA 300.0 Rev 2.1 1993	679850		
92587090023	**AMA-FB-2**	EPA 300.0 Rev 2.1 1993	679850		
92587090024	**PZ-37D**	EPA 300.0 Rev 2.1 1993	679850		
92587090025	**PZ-52D**	EPA 300.0 Rev 2.1 1993	679850		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

Sample Condition Upon Receipt

Client Name: GH Power

Project #: WO# : 92587090

92587090

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/22

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

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

Thermometer: ☑ IR Gun ID: 083 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 2.3 **Correction Factor:** Add/Subtract (°C) +0.2

Cooler Temp Corrected (°C): 2.5

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

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 2 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

***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, ULHg

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

Project # **WO# : 92587090**

PM: NMG Due Date: 02/23/22

CLIENT: GA-GA Power

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)	AG3A(DG3A)-250 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)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2					
2		1	1			1																		2					
3		1	1			1																		2					
4		1	1			1																		2					
5		1	1			1																		2					
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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : | Of |

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWC-23S~~	WT	G	~~2/1/22~~	1030	–	–		5	2		3							X	X	X	X		pH:
2	~~YGWC-24SA~~	WT	G				–		5	2		3							X	X	X	X		pH:
3	~~AMA-DUP-1~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
4	~~YGWC-36A~~	WT	G						5	2		3							X	X	X	X		pH:
5	YGWC-49	WT	G	2/8/22	1800	–	–		5	2		3							X	X	X	X		pH: 5.79
6	~~YGWC-38~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
7	YGWC-41	WT	G	2/8/22	1620	–	–		5	2		3							X	X	X	X		pH: 5.07
8	AMA-DUP-2	WT	G	2/8/22	—	–	–		5	2		3							X	X	X	X		pH: —
9	~~YGWC-42~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
10	~~YGWC-43~~	WT	G	~~2/1/22~~	1000 (R2)		–		5	2		3							X	X	X	X		pH:
11	YAMW-2	WT	G			–	–		5	2		3							X	X	X	X		pH:
12	~~YAMW-3~~	WT	G			–	–		5	2		3							X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	2/9/22	1018	/Arcadis	2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : | Of

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: | State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																								
1	~~YGWC-23S~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
2	~~YGWC-24SA~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
3	~~AMA-DUP-1~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
4	~~YGWC-36A~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
5	~~YGWC-49~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
6	~~YGWC-38~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
7	~~YGWC-4T~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
8	~~AMA-DUP-2~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
9	~~YGWC-42~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
10	YGWC-43	WT	G	2/8/22	10:20	–	–		5	2		3							X	X	X	X		pH: 5.82
11	~~YAMW-2~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
12	~~YAMW-3~~	WT	G			–	–		5	2		3							X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/9/22	0827		2/9/22	0827	
App III Metals: Boron 6020B, Ca 6010D		2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware — DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	
Pace Profile #:	10840

Page : 1 Of 1

Regulatory Agency:

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	AMA-EB-1	WT	G	2/9/22	1536	–	–		5	2		3						X	X	X	X	
2	~~AMA-EB-2~~	WT	G			–	–		5	2		3						X	X	X	X	
3	~~AMA-FB-1~~	WT	G			–	–		5	2		3						X	X	X	X	
4	~~AMA-FB-2~~	WT	G						5	2		3						X	X	X	X	
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lipszynski /Arcadis	2/9/22	0825	Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D	TArcadis	2/9/22	0918		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lipszynski

SIGNATURE of SAMPLER:

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.08**	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: JRE 2/12/22

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

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

Thermometer: ☐ IR Gun ID: 214 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) +.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.2

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

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☐ Yes	☑ No	☐ N/A	5. missing ~~#~~ YA MW-4 2/10/22 @1113
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YAMW-4	WT	G	2/10/22	1130	--	--		5	2		3							X	X	X	X		pH: 5.22
2	~~YAMW-5~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
3	PZ-37	WT	G	2/10/22	1305	--	--		5	2		3							X	X	X	X		pH: 4.93
4	AMA-DUP-4	WT	G	2/10/22	—	--	--		5	2		3							X	X	X	X		pH: —
5	~~PZ-37D~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
6	PZ-51	WT	G	2/10/22	1810	--	--		5	2		3							X	X	X	X		pH: 11.06
7	~~PZ-52D~~	WT	G						5	2		3							X	X	X	X		pH:
8	~~YAMW-1~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
9	~~PZ-35~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
10						--	--																	
11						--	--																	
12						--	--																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Kharill Carson	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Kharill Carson /Arcadis	2/11/22	1645		2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: DATE Signed: 2/11/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 4

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Requested Analysis Filtered (Y/N)					
1	~~YAMW-4~~	~~WT~~	~~G~~			--	--		~~5~~	2		3							X	X	X	X	
2	YAMW-5	~~WT~~	~~G~~			--	--		~~5~~	2		3							X	X	X	X	
3	PZ-37	~~WT~~	~~G~~			--	--		5	2		3							X	X	X	X	
4	~~AMA-DUP-4~~	~~WT~~	~~G~~			--	--		~~5~~	2		3							X	X	X	X	
5	~~PZ-37D~~	~~WT~~	~~G~~			--	--		~~5~~	2		3							X	X	X	X	
6	~~PZ-51~~	~~WT~~	~~G~~			--	--		~~5~~	2		3							X	X	X	X	
7	~~PZ-52D~~	~~WT~~	~~G~~			--	--		~~5~~	2		3							X	X	X	X	
8	YAMW-1	WT	G	2/1/22	1155	--	--		5	2		3							X	X	X	X	pH: 5.80
9	PZ-35	WT	G	2/1/22	1437	--	--		5	2		3							X	X	X	X	pH: 5.35
10						--	--																pH:
11						--	--																pH:
12						--	--																pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/1/22	1745	Whalt Carson Arcadis	2/1/22	1445				
App III Metals: Boron 6020B, Ca 6010D	Whalt Carson	2/1/22	1645	Joann	2/1/22	1645				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesnut

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/1/22

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: | State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YAMW-4	WT	G	2/10/22	1200	--	--		5	2		3						X	X	X	X			pH: 6.10
2	~~YAMW-5~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
3	~~PZ-37~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
4	~~AMA-DUP-4~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
5	~~PZ-37D~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
6	~~PZ-51~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
7	~~PZ-52D~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
8	YAMW-1	WT	G			--	--		5	2		3						X	X	X	X			pH:
9	~~PZ-35~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
10						--	--																	
11						--	--																	
12						--	--																	

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/11/22	1445	Kendall Carson	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Kendall Carson	2/11/22	1645	[illegible]	2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/10/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

~~CHAIN-OF-CUSTODY / Analytical Request Document~~

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Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	pH
1	YGWC-23S	WT	G	2/10/22	1510	--	--		5	2		3						X	X	X	X			5.51
2	~~YGWC-24SA~~	WT	G			--	--		5	2		3						X	X	X	X			
3	~~AMA-DUP-1~~	WT	G			--	--		5	2		3						X	X	X	X			
4	~~YGWC-36A~~	WT	G			--	--		5	2		3						X	X	X	X			
5	~~YGWC-49~~	WT	G			--	--		5	2		3						X	X	X	X			
6	YGWC-38	WT	G	2/10/22	0950	--	--		5	2		3						X	X	X	X			4.85
7	~~YGWC-41~~	WT	G			--	--		5	2		3						X	X	X	X			
8	~~AMA-DUP-2~~	WT	G			--	--		5	2		3						X	X	X	X			
9	YGWC-42	WT	G	2/10/22	1635	--	--		5	2		3						X	X	X	X			5.57
10	~~YGWC-43~~	WT	G			--	--		5	2		3						X	X	X	X			
11	~~YAMW-2~~	WT	G			--	--		5	2		3						X	X	X	X			
12	~~YAMW-3~~	WT	G			--	--		5	2		3						X	X	X	X			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Khalil Carter	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Khalil Carter/Arcadis	2/11/22	1645		2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/11/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —
State / Location: Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	pH
1	~~YGWC-23S~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
2	YGWC-24SA	WT	G	02/10/22	1440	--	--		5	2		3						X	X	X	X			pH: 4.66
3	AMA-DUP-1	WT	G	02/10/22		--	--		5	2		3						X	X	X	X			pH:
4	~~YGWC-36A~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
5	~~YGWC-49~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
6	~~YGWC-38~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
7	~~YGWC-41~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
8	~~AMA-DUP-2~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
9	~~YGWC-42~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
10	~~YGWC-43~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
11	~~YAMW-2~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
12	~~YAMW-3~~	WT	G			--	--		5	2		3						X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter Arcadis	2/11/21	1645		2/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Khalil Carter					
SIGNATURE of SAMPLER:		DATE Signed: 02/10/22				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	pH
1	~~YGWC-23S~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
2	~~YGWC-24SA~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
3	~~AMA-DUP-1~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
4	YGWC-36A	WT	G	2/11/22	1119	--	--		5	2		3						X	X	X	X			pH: 5.58
5	~~YGWC-49~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
6	~~YGWC-38~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
7	YGWC-41	WT	G			--	--		5	2		3						X	X	X	X			pH:
8	~~AMA-DUP-2~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
9	~~YGWC-42~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
10	~~YGWC-43~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
11	YAMW-2	WT	G	2/10/22	0945	--	--		5	2		3						X	X	X	X			pH: 5.64
12	~~YAMW-3~~	WT	G	2/10/22	1535	--	--		5	2		3						X	X	X	X			pH: 5.93

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica deWare /Arcadis	2/11/22	1445	Michael Carson/Arcadis	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Michael Carson	2/11/22	1645	Joann Pace	2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:	Jessica Ware	DATE Signed: 2/10/22				

Page: 3 of 4

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:
		Address:
Email To:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: Plant Yates AMA-R6	Pace Project Manager:
Requested Due Date:	Project Number:	Pace Profile #: 10840

Regulatory Agency
State / Location
Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~AMA-EB-1~~	~~WT~~	~~G~~			–	–		5	2		3						X	X	X	X		
2	AMA-EB-2	WT	G	2/10/22	1246	–	–		5	2		3						X	X	X	X		MC
3	AMA-FB-1	WT	G	2/10/22	1502	–	–		5	2		3						X	X	X	X		KL
4	AMA-FB-2	WT	G	2/10/22	1600	–	–		5	2		3						X	X	X	X		MC
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Rhett Carson	2/11/22	1448	
App III Metals: Boron 6020B, Ca 6010D	Rhett Carson	2/11/22	1644		2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chester

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/11/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 09/14/22

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: 0.7 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 0.8

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

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
	MATRIX: Drinking Water CODE DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																						
1	~~YAMW-4~~	WT	G			--	--		~~5~~ 2			~~3~~							X	X	X	X	pH:
2	~~YAMW-5~~	WT	G			--	--		~~5~~ 2			~~3~~							X	X	X	X	pH:
3	~~PZ-37~~	WT	G			--	--		~~5~~ 2			~~3~~							X	X	X	X	pH:
4	~~AMA-DUP-4~~	WT	G			--	--		~~5~~ 2			~~3~~							X	X	X	X	pH:
5	PZ-37D	WT	G	2/11/22	1635	--	--		5	2		3							X	X	X	X	pH: 7.84
6	~~PZ-51~~	WT	G			--	--		~~5~~ 2			~~3~~							X	X	X	X	pH:
7	~~PZ-52D~~	WT	G			--	--		~~5~~ 2			~~3~~							X	X	X	X	pH:
8	~~YAMW-1~~	WT	G			--	--		~~5~~ 2			~~3~~							X	X	X	X	pH:
9	~~PZ-35~~	WT	G			--	--		~~5~~ 2			3							X	X	X	X	pH:
10	—					--	--																	
11	—					--	--																	
12	—					--	--																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/14/22	1325	Charles Parker	2/14/22	1324	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:	Jessica Ware	DATE Signed: 2/11/22				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~YAMW-4~~	WT	G			--	--		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
2	~~YAMW-5~~	WT	G			--	--		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
3	~~PZ-37~~	WT	G			--	--		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
4	~~AMA-DUP-4~~	WT	G			--	--		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
5	~~PZ-37D~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
6	~~PZ-51~~	WT	G			--	--		~~5~~	2		3						X	X	X	X		pH:
7	PZ-52D	WT	G	2/11/22	1400	--	--		5	2		3						X	X	X	X		pH: 6.40
8	~~YAMW-1~~	WT	G			--	--		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
9	PZ-35	WT	G			--	--		~~5~~	~~2~~		~~6~~						X	X	X	X		pH:
10	—					--	--																
11	—					--	--																
12	—					--	--																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1314	/Arcadis	2/11/22	1314	
App III Metals: Boron 6020B, Ca 6010D		2/14/22	1325		2/11/22	1325	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapczynski

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2/11/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Georgia Power Co. – Plant Yates

Data Review Report

Metals and General Chemistry Analyses

SDG #92587091

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

Report #44872R
Review Level: Tier II
Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587091 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
YGWA-39	92587091001	Water	2/8/2022			X	X
YGWA-40	92587091002	Water	2/8/2022			X	X
YGWA-47	92587091003	Water	2/8/2022			X	X
GWA-2	92587091004	Water	2/8/2022			X	X
UP-DUP-1	92587091005	Water	2/8/2022	GWA-2		X	X
YGWA-1I	92587091006	Water	2/9/2022			X	X
YGWA-1D	92587091007	Water	2/9/2022			X	X
YGWA-2I	92587091008	Water	2/9/2022			X	X
YGWA-3I	92587091009	Water	2/9/2022			X	X
YGWA-3D	92587091010	Water	2/9/2022			X	X
UP-EB-1	92587091011	Water	2/9/2022			X	X
UP-FB-1	92587091012	Water	2/9/2022			X	X
YGWA-17S	92587091013	Water	2/9/2022			X	X
YGWA-18S	92587091014	Water	2/9/2022			X	X
YGWA-18I	92587091015	Water	2/9/2022			X	X
YGWA-20S	92587091016	Water	2/9/2022			X	X
YGWA-21I	92587091017	Water	2/9/2022			X	X
YGWA-5I	92587091018	Water	2/10/2022			X	X
UP-DUP-3	92587091019	Water	2/10/2022	YGWA-5I		X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-14S	92587091020	Water	2/10/2022			X	X
UP-DUP-2	92587091021	Water	2/10/2022	YGWA-14S		X	X
YGWA-30I	92587091022	Water	2/11/2022			X	X
YGWA-4I	92587091023	Water	2/11/2022			X	X
YGWA-5D	92587091024	Water	2/10/2022			X	X
UP-EB-2	92587091025	Water	2/10/2022			X	X
UP-FB-2	92587091026	Water	2/10/2022			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. pH analysis performed as a field measurement.

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, and 7470A; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

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

Metals Analyses

1. Holding Times

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

Method	Matrix	Holding Time	Preservation
SW-846 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
YGWA-39 YGWA-40 YGWA-47 GWA-2 UP-DUP-1 YGWA-1I YGWA-1I YGWA-2I	Arsenic (EB, FB)	Detected sample results <RL and <BAL	“UB” at the RL

Sample Locations	Analytes	Sample Result	Qualification
YGWA-3I YGWA-3D YGWA-17S YGWA-18S YGWA-18I YGWA-20S YGWA-21I YGWA-5I UP-DUP-3 YGWA-14S UP-DUP-2 YGWA-30I YGWA-4I YGWA-5D	Arsenic (EB, FB, MB)	Detected sample results <RL and <BAL	"UB" at the RL
YGWA-18S	Chromium (MB)		

Notes:
EB = Equipment blank
FB = Field blank
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 recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis performed using sample YGWA-3D in association with SW-846 6010D analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using sample YGWA-3I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWA-14S 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. 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
GWA-2 / UP-DUP-1	Calcium	25.6	25.6	0.0%
	Barium	0.037	0.034	8.5%
	Cobalt	0.072	0.055	26.8%
	Copper	0.0012 J	0.0012 J	AC
	Lithium	0.0031 J	0.0027 J	
	Nickel	0.017	0.014	
	Zinc	0.014	0.012	
YGWA-5I / UP-DUP-3	Calcium	2.5	2.6	AC
	Barium	0.020	0.020	
	Lithium	0.0036 J	0.0037 J	
YGWA-14S / UP-DUP-2	Calcium	1.3	1.2	AC
	Barium	0.0088	0.0084	
	Beryllium	0.00025 J	0.00022 J	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Boron	0.020 J	0.018 J	
	Selenium	0.0014 J	0.0050 U	

Note:
AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-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
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using samples YGWA-21I and YGWA-5I in association with anions analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample locations YGWA-47 and YGWA-1D in association with anions analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-47	Sulfate	73%	AC (75%)
YGWA-1D	Chloride	> 125%	AC (121%)

Note:
AC = Acceptable

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

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 samples YGWA-47 and UP-EB-1 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
GWA-2 / UP-DUP-1	TDS	283	271	4.4%
	Chloride	5.7	5.7	0.0%
	Sulfate	107	102	4.8%
	Fluoride	0.064 J	0.059 J	AC
YGWA-5I – UP-DUP-3	TDS	77.0	67.0	13.9%
	Chloride	4.4	4.4	AC
	Sulfate	2.4	2.4	
YGWA-14S / UP-DUP-2	TDS	56.0	53.0	5.5%
	Sulfate	6.2	6.1	1.6%
	Chloride	4.7	4.7	AC

Note:
AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-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: SM4500-H+ B, 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

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: March 21, 2022

PEER REVIEW: Dennis Capria

DATE: March 22, 2022

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	YGWA-39	WT	G	2/8/22	1455	–	–		5	2	3							X	X	X	X		pH: 5.78
2	YGWA-40	WT	G	2/8/22	1522	–	–		5	2	3							X	X	X	X		pH: 5.26
3	~~YGWA-1I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
4	~~YGWA-1D~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
5	~~YGWA-2I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
6	~~YGWA-3I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
7	~~YGWA-3D~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
8	~~YGWA-14S~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
9	~~UP-DUP-2~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
10	~~YGWA-30I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
11	~~UP-EB-1~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		
12	~~UP-FB-1~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kurt Lapszynski

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App IV (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G	2/8/22	1140	–	–		5	2		3						X	X	X	X		X	pH: 5.70
2	~~GWA-2~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
3	~~UP-DUP-1~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X	X		pH:
4	~~YGWA-4I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
5	~~YGWA-5I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
6	~~UP-DUP-3~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
7	~~YGWA-5D~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
8	~~YGWA-17S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
9	~~UGWA-18S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
10	~~YGWA-18I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
11	~~YGWA-20S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
12	~~YGWA-21I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chestnut

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	~~YGWA-1I~~	WT	G	[illegible]	[illegible]	[illegible]	[illegible]		5	2		3						X	X	X	X				pH:
2	GWA-2	WT	G	[illegible]	1045	02-08	1150		5	2		3						X	X	X	X	X			pH: 5.83
3	UP-DUP-1	WT	G	02-08	[illegible]	–	–		5	2		3						X	X	X	X	X			pH: [illegible]
4	~~YGWA-1I~~	WT	G			–	–		5	2		3						X	X	X	X				pH:
5	~~YGWA-5I~~	WT	G			–	–		5	2		3						X	X	X					pH:
6	~~UP-DUP-3~~	WT	G			–	–		5	2		3						X	X	X	X				pH:
7	~~YGWA-5D~~	WT	G			–	–		5	2		3						X	X	X	X				pH:
8	~~YGWA-17S~~	WT	G			–	–		5	2		3						X	X	X	X				pH:
9	UGWA-18S	WT	G			–	–		5	2		3						X	X	X	X				pH:
10	YGWA-18I	WT	G			–	–		5	2		3						X	X	X	X				pH:
11	~~YGWA-20S~~	WT	G			–	–		5	2		3						X	X	X	X				pH:
12	~~YGWA-21I~~	WT	G			–	–		5	2		3						X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	2/9/22	0840	[signature]	2/9/22	0840	
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/9/22	1018	[signature]	2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: [signature] DATE Signed: 02-09-22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587091	YGWA-39	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-40	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-47	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
		EPA 300.0	Sulfate	50.9	mgL	J	MS %R < LCL
	GWA-2	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-1	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-1I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-1D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
		EPA 300.0	Chloride	1.0	mgL	J	MS %R > UCL
	YGWA-2I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-3I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-3D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-17S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-18S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
			Chromium	0.0050	mgL	UB	Blank contamination
	YGWA-18I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-20S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-21I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-5I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-3	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-14S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-2	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-30I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-4I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-5D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination

Abbreviations:
%R = percent recovery
LCL = lower control limit
mg/L = milligrams per liter
MS = matrix spike
UCL = upper control limit

Qualifiers:
J = estimated result
UB = not detected due to blank contamination

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

February 25, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas
Caitlin Tillema, ERM
Christine Weaver, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587091001	**YGWA-39**	Water	02/08/22 14:55	02/09/22 10:18
92587091002	**YGWA-40**	Water	02/08/22 13:22	02/09/22 10:18
92587091003	**YGWA-47**	Water	02/08/22 11:40	02/09/22 10:18
92587091004	**GWA-2**	Water	02/08/22 11:50	02/09/22 10:18
92587091005	**UP-DUP-1**	Water	02/08/22 00:00	02/09/22 10:18
92587091006	**YGWA-1I**	Water	02/09/22 13:45	02/10/22 17:00
92587091007	**YGWA-1D**	Water	02/09/22 14:45	02/10/22 17:00
92587091008	**YGWA-2I**	Water	02/09/22 17:35	02/10/22 17:00
92587091009	**YGWA-3I**	Water	02/09/22 11:35	02/10/22 17:00
92587091010	**YGWA-3D**	Water	02/09/22 10:20	02/10/22 17:00
92587091011	**UP-EB-1**	Water	02/09/22 13:06	02/10/22 17:00
92587091012	**UP-FB-1**	Water	02/09/22 10:47	02/10/22 17:00
92587091013	**YGWA-17S**	Water	02/09/22 10:20	02/10/22 17:00
92587091014	**YGWA-18S**	Water	02/09/22 12:24	02/10/22 17:00
92587091015	**YGWA-18I**	Water	02/09/22 14:31	02/10/22 17:00
92587091016	**YGWA-20S**	Water	02/09/22 16:19	02/10/22 17:00
92587091017	**YGWA-21I**	Water	02/09/22 17:40	02/10/22 17:00
92587091018	**YGWA-5I**	Water	02/10/22 17:27	02/11/22 16:45
92587091019	**UP-DUP-3**	Water	02/10/22 00:00	02/11/22 16:45
92587091020	**YGWA-14S**	Water	02/10/22 16:20	02/11/22 16:45
92587091021	**UP-DUP-2**	Water	02/10/22 00:00	02/11/22 16:45
92587091022	**YGWA-30I**	Water	02/11/22 09:20	02/11/22 16:45
92587091023	**YGWA-4I**	Water	02/11/22 10:40	02/11/22 16:45
92587091024	**YGWA-5D**	Water	02/10/22 17:46	02/11/22 16:45
92587091025	**UP-EB-2**	Water	02/10/22 11:40	02/11/22 16:45
92587091026	**UP-FB-2**	Water	02/10/22 17:13	02/11/22 16:45

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587091001	**YGWA-39**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091002	**YGWA-40**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091003	**YGWA-47**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091004	**GWA-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091005	**UP-DUP-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091006	**YGWA-1I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091007	**YGWA-1D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091008	**YGWA-2I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091009	**YGWA-3I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091010	**YGWA-3D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091011	**UP-EB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091012	**UP-FB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091013	**YGWA-17S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091014	**YGWA-18S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091015	**YGWA-18I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091016	**YGWA-20S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091017	**YGWA-21I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92587091018	**YGWA-5I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091019	**UP-DUP-3**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091020	**YGWA-14S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091021	**UP-DUP-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091022	**YGWA-30I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091023	**YGWA-4I**	EPA 6010D	KH	1

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091024	**YGWA-5D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091025	**UP-EB-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091026	**UP-FB-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091001	**YGWA-39**					
	Performed by	CUSTOMER			02/09/22 12:38	
	pH	5.78	Std. Units		02/09/22 12:38	
EPA 6010D	Calcium	15.2	mg/L	1.0	02/23/22 21:07	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/23/22 19:41	B
EPA 6020B	Barium	0.041	mg/L	0.0050	02/23/22 19:41	
EPA 6020B	Boron	0.13	mg/L	0.040	02/24/22 12:58	
EPA 6020B	Cadmium	0.00063	mg/L	0.00050	02/23/22 19:41	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	02/23/22 19:41	
EPA 6020B	Lithium	0.0080J	mg/L	0.030	02/23/22 19:41	
EPA 6020B	Molybdenum	0.0035J	mg/L	0.010	02/23/22 19:41	
SM 2540C-2015	Total Dissolved Solids	248	mg/L	10.0	02/14/22 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	02/15/22 08:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	02/15/22 08:56	
EPA 300.0 Rev 2.1 1993	Sulfate	14.6	mg/L	1.0	02/15/22 08:56	
92587091002	**YGWA-40**					
	Performed by	CUSTOMER			02/09/22 12:38	
	pH	5.26	Std. Units		02/09/22 12:38	
EPA 6010D	Calcium	6.0	mg/L	1.0	02/23/22 21:12	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/23/22 19:47	B
EPA 6020B	Barium	0.039	mg/L	0.0050	02/23/22 19:47	
EPA 6020B	Beryllium	0.00028J	mg/L	0.00050	02/23/22 19:47	
EPA 6020B	Boron	0.074	mg/L	0.040	02/24/22 13:04	
EPA 6020B	Lithium	0.00076J	mg/L	0.030	02/23/22 19:47	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	02/23/22 19:47	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/16/22 15:55	
SM 2540C-2015	Total Dissolved Solids	93.0	mg/L	10.0	02/14/22 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	6.2	mg/L	1.0	02/15/22 09:10	
EPA 300.0 Rev 2.1 1993	Sulfate	17.9	mg/L	1.0	02/15/22 09:10	
92587091003	**YGWA-47**					
	Performed by	CUSTOMER			02/09/22 12:39	
	pH	5.40	Std. Units		02/09/22 12:39	
EPA 6010D	Calcium	9.4	mg/L	1.0	02/23/22 21:26	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/23/22 19:53	B
EPA 6020B	Barium	0.030	mg/L	0.0050	02/23/22 19:53	
EPA 6020B	Beryllium	0.000056J	mg/L	0.00050	02/23/22 19:53	
EPA 6020B	Boron	0.015J	mg/L	0.040	02/23/22 19:53	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	02/23/22 19:53	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	02/23/22 19:53	
SM 2540C-2015	Total Dissolved Solids	151	mg/L	10.0	02/15/22 16:02	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/15/22 09:52	
EPA 300.0 Rev 2.1 1993	Sulfate	50.9	mg/L	1.0	02/15/22 09:52	M1
92587091004	**GWA-2**					
	Performed by	CUSTOMER			02/09/22 12:39	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091004	**GWA-2**					
	pH	5.83	Std. Units		02/09/22 12:39	
EPA 6010D	Calcium	25.6	mg/L	1.0	02/23/22 21:31	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:59	B
EPA 6020B	Barium	0.037	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Cobalt	0.072	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Copper	0.0012J	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/23/22 19:59	
EPA 6020B	Nickel	0.017	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Zinc	0.014	mg/L	0.010	02/23/22 19:59	
SM 2540C-2015	Total Dissolved Solids	283	mg/L	10.0	02/15/22 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/15/22 10:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/15/22 10:34	
EPA 300.0 Rev 2.1 1993	Sulfate	107	mg/L	3.0	02/15/22 18:19	
92587091005	**UP-DUP-1**					
EPA 6010D	Calcium	25.6	mg/L	1.0	02/23/22 21:36	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/23/22 20:05	B
EPA 6020B	Barium	0.034	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Cobalt	0.055	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Copper	0.0012J	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Lithium	0.0027J	mg/L	0.030	02/23/22 20:05	
EPA 6020B	Nickel	0.014	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Zinc	0.012	mg/L	0.010	02/23/22 20:05	
SM 2540C-2015	Total Dissolved Solids	271	mg/L	10.0	02/15/22 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/15/22 10:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/15/22 10:48	
EPA 300.0 Rev 2.1 1993	Sulfate	102	mg/L	2.0	02/15/22 18:34	
92587091006	**YGWA-1I**					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	6.24	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	2.1	mg/L	1.0	02/23/22 21:50	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 20:23	B
EPA 6020B	Barium	0.0088	mg/L	0.0050	02/23/22 20:23	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	02/23/22 20:23	
EPA 6020B	Lithium	0.0027J	mg/L	0.030	02/23/22 20:23	
EPA 6020B	Molybdenum	0.0055J	mg/L	0.010	02/23/22 20:23	
SM 2540C-2015	Total Dissolved Solids	57.0	mg/L	10.0	02/15/22 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	02/16/22 13:32	
EPA 300.0 Rev 2.1 1993	Sulfate	5.1	mg/L	1.0	02/16/22 13:32	
92587091007	**YGWA-1D**					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	7.12	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	14.9	mg/L	1.0	02/23/22 21:55	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	02/23/22 20:41	B
EPA 6020B	Barium	0.0067	mg/L	0.0050	02/23/22 20:41	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091007	**YGWA-1D**					
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	02/23/22 20:41	
EPA 6020B	Lithium	0.013J	mg/L	0.030	02/23/22 20:41	
EPA 6020B	Molybdenum	0.0093J	mg/L	0.010	02/23/22 20:41	
SM 2540C-2015	Total Dissolved Solids	105	mg/L	10.0	02/15/22 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	02/16/22 13:46	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	02/16/22 13:46	M1
EPA 300.0 Rev 2.1 1993	Sulfate	9.3	mg/L	1.0	02/16/22 13:46	M1
92587091008	**YGWA-2I**					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	5.89	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	23.4	mg/L	1.0	02/23/22 21:59	
EPA 6020B	Arsenic	0.0037J	mg/L	0.0050	02/23/22 20:47	B
EPA 6020B	Barium	0.0029J	mg/L	0.0050	02/23/22 20:47	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/23/22 20:47	
EPA 6020B	Molybdenum	0.0057J	mg/L	0.010	02/23/22 20:47	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.0J	mg/L	1.0	02/16/22 14:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/16/22 14:28	
EPA 300.0 Rev 2.1 1993	Sulfate	18.0	mg/L	1.0	02/16/22 14:28	
92587091009	**YGWA-3I**					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	7.66	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	23.7	mg/L	1.0	02/23/22 22:42	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/24/22 17:09	B
EPA 6020B	Barium	0.0031J	mg/L	0.0050	02/24/22 17:09	
EPA 6020B	Lithium	0.021J	mg/L	0.030	02/24/22 17:09	
EPA 6020B	Molybdenum	0.0087J	mg/L	0.010	02/24/22 17:09	
SM 2540C-2015	Total Dissolved Solids	145	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/16/22 14:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.097J	mg/L	0.10	02/16/22 14:42	
EPA 300.0 Rev 2.1 1993	Sulfate	16.0	mg/L	1.0	02/16/22 14:42	
92587091010	**YGWA-3D**					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	7.97	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	30.3	mg/L	1.0	02/23/22 22:47	M1
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	02/24/22 17:33	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	02/24/22 17:33	B
EPA 6020B	Barium	0.0051	mg/L	0.0050	02/24/22 17:33	
EPA 6020B	Boron	0.010J	mg/L	0.040	02/24/22 17:33	
EPA 6020B	Lithium	0.026J	mg/L	0.030	02/24/22 17:33	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	02/24/22 17:33	
SM 2540C-2015	Total Dissolved Solids	154	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/16/22 14:55	

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091010	**YGWA-3D**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	02/16/22 14:55	
EPA 300.0 Rev 2.1 1993	Sulfate	7.2	mg/L	1.0	02/16/22 14:55	
92587091011	**UP-EB-1**					
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	02/24/22 17:39	B
92587091012	**UP-FB-1**					
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/24/22 17:45	B
92587091013	**YGWA-17S**					
	Performed by	CUSTOMER			02/11/22 10:08	
	pH	5.53	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	2.8	mg/L	1.0	02/23/22 23:25	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/24/22 17:51	B
EPA 6020B	Barium	0.017	mg/L	0.0050	02/24/22 17:51	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	02/24/22 17:51	
EPA 6020B	Boron	0.0098J	mg/L	0.040	02/24/22 17:51	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	10.9	mg/L	1.0	02/16/22 16:55	
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	02/16/22 16:55	
92587091014	**YGWA-18S**					
	Performed by	CUSTOMER			02/11/22 10:08	
	pH	5.28	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	0.87J	mg/L	1.0	02/23/22 23:30	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/24/22 18:09	B
EPA 6020B	Barium	0.014	mg/L	0.0050	02/24/22 18:09	
EPA 6020B	Beryllium	0.000089J	mg/L	0.00050	02/24/22 18:09	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	02/24/22 18:09	B
EPA 6020B	Lithium	0.0015J	mg/L	0.030	02/24/22 18:09	
SM 2540C-2015	Total Dissolved Solids	60.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	02/16/22 17:09	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	02/16/22 17:09	
92587091015	**YGWA-18I**					
	Performed by	CUSTOMER			02/11/22 10:08	
	pH	5.98	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	5.1	mg/L	1.0	02/23/22 23:35	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/24/22 18:15	B
EPA 6020B	Barium	0.021	mg/L	0.0050	02/24/22 18:15	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	02/24/22 18:15	
SM 2540C-2015	Total Dissolved Solids	103	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	02/16/22 17:22	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	02/16/22 17:22	
92587091016	**YGWA-20S**					
	Performed by	CUSTOMER			02/11/22 10:08	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091016	**YGWA-20S**					
	pH	5.91	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	2.3	mg/L	1.0	02/23/22 23:40	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/24/22 18:21	B
EPA 6020B	Barium	0.014	mg/L	0.0050	02/24/22 18:21	
EPA 6020B	Beryllium	0.000077J	mg/L	0.00050	02/24/22 18:21	
EPA 6020B	Lithium	0.00082J	mg/L	0.030	02/24/22 18:21	
SM 2540C-2015	Total Dissolved Solids	72.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	02/16/22 17:36	
92587091017	**YGWA-21I**					
	Performed by	CUSTOMER			02/11/22 10:08	
	pH	6.84	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	9.8	mg/L	1.0	02/23/22 23:44	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/24/22 18:27	B
EPA 6020B	Barium	0.011	mg/L	0.0050	02/24/22 18:27	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	02/24/22 18:27	
EPA 6020B	Lithium	0.0061J	mg/L	0.030	02/24/22 18:27	
SM 2540C-2015	Total Dissolved Solids	131	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.7	mg/L	1.0	02/17/22 02:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/17/22 02:57	
EPA 300.0 Rev 2.1 1993	Sulfate	3.9	mg/L	1.0	02/17/22 02:57	
92587091018	**YGWA-5I**					
	Performed by	CUSTOMER			02/14/22 11:36	
	pH	5.14	Std. Units		02/14/22 11:36	
EPA 6010D	Calcium	2.5	mg/L	1.0	02/23/22 23:49	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/24/22 18:33	B
EPA 6020B	Barium	0.020	mg/L	0.0050	02/24/22 18:33	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/24/22 18:33	
SM 2540C-2015	Total Dissolved Solids	77.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/19/22 13:40	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 13:40	
92587091019	**UP-DUP-3**					
EPA 6010D	Calcium	2.6	mg/L	1.0	02/23/22 23:54	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/24/22 18:39	B
EPA 6020B	Barium	0.020	mg/L	0.0050	02/24/22 18:39	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/24/22 18:39	
SM 2540C-2015	Total Dissolved Solids	67.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/19/22 14:20	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 14:20	
92587091020	**YGWA-14S**					
	Performed by	CUSTOMER			02/14/22 11:36	
	pH	4.50	Std. Units		02/14/22 11:36	
EPA 6010D	Calcium	1.3	mg/L	1.0	02/23/22 23:59	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/24/22 18:45	B

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091020	**YGWA-14S**					
EPA 6020B	Barium	0.0088	mg/L	0.0050	02/24/22 18:45	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	02/24/22 18:45	
EPA 6020B	Boron	0.020J	mg/L	0.040	02/24/22 18:45	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	02/24/22 18:45	
SM 2540C-2015	Total Dissolved Solids	56.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/19/22 14:34	
EPA 300.0 Rev 2.1 1993	Sulfate	6.2	mg/L	1.0	02/19/22 14:34	
92587091021	**UP-DUP-2**					
EPA 6010D	Calcium	1.2	mg/L	1.0	02/24/22 00:13	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	02/24/22 18:51	B
EPA 6020B	Barium	0.0084	mg/L	0.0050	02/24/22 18:51	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/24/22 18:51	
EPA 6020B	Boron	0.018J	mg/L	0.040	02/24/22 18:51	
SM 2540C-2015	Total Dissolved Solids	53.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/19/22 14:47	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	02/19/22 14:47	
92587091022	**YGWA-30I**					
	Performed by	CUSTOMER			02/14/22 11:37	
	pH	5.59	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	1.5	mg/L	1.0	02/24/22 00:18	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 18:57	B
EPA 6020B	Barium	0.0077	mg/L	0.0050	02/24/22 18:57	
EPA 6020B	Cobalt	0.0038J	mg/L	0.0050	02/24/22 18:57	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	02/24/22 18:57	
SM 2540C-2015	Total Dissolved Solids	66.0	mg/L	10.0	02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/19/22 15:01	
EPA 300.0 Rev 2.1 1993	Sulfate	2.8	mg/L	1.0	02/19/22 15:01	
92587091023	**YGWA-4I**					
	Performed by	CUSTOMER			02/14/22 11:37	
	pH	5.95	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	7.5	mg/L	1.0	02/24/22 00:23	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 19:03	B
EPA 6020B	Barium	0.013	mg/L	0.0050	02/24/22 19:03	
EPA 6020B	Lithium	0.012J	mg/L	0.030	02/24/22 19:03	
SM 2540C-2015	Total Dissolved Solids	102	mg/L	10.0	02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	02/19/22 15:14	
EPA 300.0 Rev 2.1 1993	Sulfate	7.7	mg/L	1.0	02/19/22 15:14	
92587091024	**YGWA-5D**					
	Performed by	CUSTOMER			02/14/22 11:37	
	pH	6.99	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	24.8	mg/L	1.0	02/24/22 00:27	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	02/24/22 19:20	B
EPA 6020B	Barium	0.0084	mg/L	0.0050	02/24/22 19:20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091024	**YGWA-5D**					
EPA 6020B	Boron	0.011J	mg/L	0.040	02/24/22 19:20	
EPA 6020B	Lithium	0.0076J	mg/L	0.030	02/24/22 19:20	
EPA 6020B	Molybdenum	0.00096J	mg/L	0.010	02/24/22 19:20	
SM 2540C-2015	Total Dissolved Solids	127	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/19/22 15:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/19/22 15:54	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	02/19/22 15:54	
92587091025	**UP-EB-2**					
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/24/22 19:32	B
92587091026	**UP-FB-2**					
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/24/22 19:38	B

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-39 **Lab ID: 92587091001** Collected: 02/08/22 14:55 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:38		
pH	**5.78**	Std. Units			1		02/09/22 12:38		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**15.2**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:07	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	0.00078	1	02/23/22 14:19	02/23/22 19:41	7440-36-0	
Arsenic	**0.0034J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:41	7440-38-2	B
Barium	**0.041**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:41	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/24/22 12:58	7440-42-8	
Cadmium	**0.00063**	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:41	7440-47-3	
Cobalt	**0.0012J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:41	7439-92-1	
Lithium	**0.0080J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:41	7439-93-2	
Molybdenum	**0.0035J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:41	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	02/16/22 08:00	02/16/22 15:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**248**	mg/L	10.0	10.0	1		02/14/22 15:20		
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		02/15/22 08:56	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		02/15/22 08:56	16984-48-8	
Sulfate	**14.6**	mg/L	1.0	0.50	1		02/15/22 08:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-40 **Lab ID: 92587091002** Collected: 02/08/22 13:22 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:38		
pH	**5.26**	Std. Units			1		02/09/22 12:38		
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	02/23/22 14:19	02/23/22 21:12	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	0.00078	1	02/23/22 14:19	02/23/22 19:47	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:47	7440-38-2	B
Barium	**0.039**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:47	7440-39-3	
Beryllium	**0.00028J**	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:47	7440-41-7	
Boron	**0.074**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/24/22 13:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:47	7439-92-1	
Lithium	**0.00076J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:47	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**93.0**	mg/L	10.0	10.0	1		02/14/22 15:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.2**	mg/L	1.0	0.60	1		02/15/22 09:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 09:10	16984-48-8	
Sulfate	**17.9**	mg/L	1.0	0.50	1		02/15/22 09:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-47 **Lab ID: 92587091003** Collected: 02/08/22 11:40 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:39		
pH	**5.40**	Std. Units			1		02/09/22 12:39		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.4**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:26	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	0.00078	1	02/23/22 14:19	02/23/22 19:53	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:53	7440-38-2	B
Barium	**0.030**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:53	7440-39-3	
Beryllium	**0.000056J**	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:53	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:53	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:53	7439-92-1	
Lithium	**0.0039J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:53	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	02/16/22 08:00	02/16/22 15:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**151**	mg/L	10.0	10.0	1		02/15/22 16:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		02/15/22 09:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 09:52	16984-48-8	M1
Sulfate	**50.9**	mg/L	1.0	0.50	1		02/15/22 09:52	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: GWA-2 **Lab ID: 92587091004** Collected: 02/08/22 11:50 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:39		
pH	**5.83**	Std. Units			1		02/09/22 12:39		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**25.6**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 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	0.00078	1	02/23/22 14:19	02/23/22 19:59	7440-36-0	
Arsenic	**0.0033J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:59	7440-38-2	B
Barium	**0.037**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:59	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:59	7440-47-3	
Cobalt	**0.072**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:59	7440-48-4	
Copper	**0.0012J**	mg/L	0.0050	0.00050	1	02/23/22 14:19	02/23/22 19:59	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:59	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:59	7439-98-7	
Nickel	**0.017**	mg/L	0.0050	0.00071	1	02/23/22 14:19	02/23/22 19:59	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:59	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/23/22 14:19	02/23/22 19:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/23/22 14:19	02/23/22 19:59	7440-62-2	
Zinc	**0.014**	mg/L	0.010	0.0070	1	02/23/22 14:19	02/23/22 19:59	7440-66-6	
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	02/16/22 08:00	02/16/22 16:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**283**	mg/L	10.0	10.0	1		02/15/22 16:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		02/15/22 10:34	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		02/15/22 10:34	16984-48-8	
Sulfate	**107**	mg/L	3.0	1.5	3		02/15/22 18:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-DUP-1 **Lab ID: 92587091005** Collected: 02/08/22 00:00 Received: 02/09/22 10:18 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	**25.6**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:36	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	0.00078	1	02/23/22 14:19	02/23/22 20:05	7440-36-0	
Arsenic	**0.0034J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:05	7440-38-2	B
Barium	**0.034**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:05	7440-47-3	
Cobalt	**0.055**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:05	7440-48-4	
Copper	**0.0012J**	mg/L	0.0050	0.00050	1	02/23/22 14:19	02/23/22 20:05	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:05	7439-92-1	
Lithium	**0.0027J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:05	7439-98-7	
Nickel	**0.014**	mg/L	0.0050	0.00071	1	02/23/22 14:19	02/23/22 20:05	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:05	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/23/22 14:19	02/23/22 20:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/23/22 14:19	02/23/22 20:05	7440-62-2	
Zinc	**0.012**	mg/L	0.010	0.0070	1	02/23/22 14:19	02/23/22 20:05	7440-66-6	
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	02/16/22 08:00	02/16/22 16:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**271**	mg/L	10.0	10.0	1		02/15/22 16:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		02/15/22 10:48	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		02/15/22 10:48	16984-48-8	
Sulfate	**102**	mg/L	2.0	1.0	2		02/15/22 18:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-1I **Lab ID: 92587091006** Collected: 02/09/22 13:45 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:07		
pH	**6.24**	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.1**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:50	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	0.00078	1	02/23/22 14:19	02/23/22 20:23	7440-36-0	
Arsenic	**0.0033J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:23	7440-38-2	B
Barium	**0.0088**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:23	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:23	7439-92-1	
Lithium	**0.0027J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:23	7439-93-2	
Molybdenum	**0.0055J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:23	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	02/16/22 08:00	02/16/22 16:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**57.0**	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		02/16/22 13:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 13:32	16984-48-8	
Sulfate	**5.1**	mg/L	1.0	0.50	1		02/16/22 13:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-1D **Lab ID: 92587091007** Collected: 02/09/22 14:45 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:07		
pH	**7.12**	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**14.9**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:55	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	0.00078	1	02/23/22 14:19	02/23/22 20:41	7440-36-0	
Arsenic	**0.0031J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:41	7440-38-2	B
Barium	**0.0067**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:41	7440-47-3	
Cobalt	**0.00072J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:41	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:41	7439-93-2	
Molybdenum	**0.0093J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:41	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	02/16/22 08:00	02/16/22 16:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**105**	mg/L	10.0	10.0	1		02/15/22 16:30		
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		02/16/22 13:46	16887-00-6	M1
Fluoride	**0.057J**	mg/L	0.10	0.050	1		02/16/22 13:46	16984-48-8	M1
Sulfate	**9.3**	mg/L	1.0	0.50	1		02/16/22 13:46	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-2I **Lab ID: 92587091008** Collected: 02/09/22 17:35 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:07		
pH	**5.89**	Std. Units			1		02/11/22 10:07		
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	02/23/22 14:19	02/23/22 21:59	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	0.00078	1	02/23/22 14:19	02/23/22 20:47	7440-36-0	
Arsenic	**0.0037J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:47	7440-38-2	B
Barium	**0.0029J**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:47	7439-92-1	
Lithium	**0.0060J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:47	7439-93-2	
Molybdenum	**0.0057J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:47	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	02/16/22 08:00	02/16/22 16:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**156**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.0J**	mg/L	1.0	0.60	1		02/16/22 14:28	16887-00-6	
Fluoride	**0.094J**	mg/L	0.10	0.050	1		02/16/22 14:28	16984-48-8	
Sulfate	**18.0**	mg/L	1.0	0.50	1		02/16/22 14:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-3I **Lab ID: 92587091009** Collected: 02/09/22 11:35 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:07		
pH	**7.66**	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**23.7**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 22:42	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	0.00078	1	02/23/22 14:12	02/24/22 17:09	7440-36-0	
Arsenic	**0.0018J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:09	7440-38-2	B
Barium	**0.0031J**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:09	7439-92-1	
Lithium	**0.021J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:09	7439-93-2	
Molybdenum	**0.0087J**	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:09	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	02/18/22 10:00	02/18/22 13:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**145**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/16/22 14:42	16887-00-6	
Fluoride	**0.097J**	mg/L	0.10	0.050	1		02/16/22 14:42	16984-48-8	
Sulfate	**16.0**	mg/L	1.0	0.50	1		02/16/22 14:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-3D **Lab ID: 92587091010** Collected: 02/09/22 10:20 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:07		
pH	**7.97**	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**30.3**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 22:47	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0018J**	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:33	7440-36-0	
Arsenic	**0.0020J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:33	7440-38-2	B
Barium	**0.0051**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:33	7440-41-7	
Boron	**0.010J**	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:33	7439-92-1	
Lithium	**0.026J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:33	7439-93-2	
Molybdenum	**0.013**	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 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	02/18/22 10:00	02/18/22 13:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**154**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/16/22 14:55	16887-00-6	
Fluoride	**0.43**	mg/L	0.10	0.050	1		02/16/22 14:55	16984-48-8	
Sulfate	**7.2**	mg/L	1.0	0.50	1		02/16/22 14:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-EB-1 **Lab ID: 92587091011** Collected: 02/09/22 13:06 Received: 02/10/22 17:00 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	02/23/22 14:15	02/23/22 23:06	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	0.00078	1	02/23/22 14:12	02/24/22 17:39	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:39	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:39	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	02/18/22 10:00	02/18/22 13:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 15:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 15:09	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 15:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-FB-1 **Lab ID: 92587091012** Collected: 02/09/22 10:47 Received: 02/10/22 17:00 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	02/23/22 14:15	02/23/22 23:20	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	0.00078	1	02/23/22 14:12	02/24/22 17:45	7440-36-0	
Arsenic	**0.0018J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:45	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:45	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	02/18/22 10:00	02/18/22 13:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 15:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 15:23	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 15:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-17S **Lab ID: 92587091013** Collected: 02/09/22 10:20 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:08		
pH	**5.53**	Std. Units			1		02/11/22 10:08		
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	02/23/22 14:15	02/23/22 23:25	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	0.00078	1	02/23/22 14:12	02/24/22 17:51	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:51	7440-38-2	B
Barium	**0.017**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:51	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:51	7440-41-7	
Boron	**0.0098J**	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:51	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	02/18/22 10:00	02/18/22 13:56	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	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.9**	mg/L	1.0	0.60	1		02/16/22 16:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 16:55	16984-48-8	
Sulfate	**4.8**	mg/L	1.0	0.50	1		02/16/22 16:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-18S **Lab ID: 92587091014** Collected: 02/09/22 12:24 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:08		
pH	**5.28**	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**0.87J**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:30	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	0.00078	1	02/23/22 14:12	02/24/22 18:09	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:09	7440-38-2	B
Barium	**0.014**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:09	7440-39-3	
Beryllium	**0.000089J**	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:09	7440-43-9	
Chromium	**0.0014J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:09	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:09	7439-92-1	
Lithium	**0.0015J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:09	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	02/18/22 10:00	02/18/22 13:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**60.0**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.0**	mg/L	1.0	0.60	1		02/16/22 17:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:09	16984-48-8	
Sulfate	**1.1**	mg/L	1.0	0.50	1		02/16/22 17:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-18I **Lab ID: 92587091015** Collected: 02/09/22 14:31 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:08		
pH	**5.98**	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.1**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:35	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	0.00078	1	02/23/22 14:12	02/24/22 18:15	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:15	7440-38-2	B
Barium	**0.021**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:15	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:15	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	02/18/22 10:00	02/18/22 14:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**103**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.5**	mg/L	1.0	0.60	1		02/16/22 17:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:22	16984-48-8	
Sulfate	**0.51J**	mg/L	1.0	0.50	1		02/16/22 17:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-20S **Lab ID: 92587091016** Collected: 02/09/22 16:19 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:08		
pH	**5.91**	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.3**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:40	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	0.00078	1	02/23/22 14:12	02/24/22 18:21	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:21	7440-38-2	B
Barium	**0.014**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:21	7440-39-3	
Beryllium	**0.000077J**	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:21	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:21	7439-92-1	
Lithium	**0.00082J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:21	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	02/18/22 10:00	02/18/22 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**72.0**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		02/16/22 17:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 17:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-21I **Lab ID: 92587091017** Collected: 02/09/22 17:40 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:08		
pH	**6.84**	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.8**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:44	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	0.00078	1	02/23/22 14:12	02/24/22 18:27	7440-36-0	
Arsenic	**0.0036J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:27	7440-38-2	B
Barium	**0.011**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:27	7440-47-3	
Cobalt	**0.0078**	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:27	7439-92-1	
Lithium	**0.0061J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:27	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	02/18/22 10:00	02/18/22 14:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**131**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.7**	mg/L	1.0	0.60	1		02/17/22 02:57	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/17/22 02:57	16984-48-8	
Sulfate	**3.9**	mg/L	1.0	0.50	1		02/17/22 02:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-5I **Lab ID: 92587091018** Collected: 02/10/22 17:27 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 11:36		
pH	**5.14**	Std. Units			1		02/14/22 11:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.5**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:49	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	0.00078	1	02/23/22 14:12	02/24/22 18:33	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:33	7440-38-2	B
Barium	**0.020**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:33	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:33	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	02/18/22 10:00	02/18/22 14:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**77.0**	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		02/19/22 13:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 13:40	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.50	1		02/19/22 13:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-DUP-3 **Lab ID: 92587091019** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.6**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:54	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	0.00078	1	02/23/22 14:12	02/24/22 18:39	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:39	7440-38-2	B
Barium	**0.020**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:39	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:39	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	02/18/22 10:00	02/18/22 14:17	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	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		02/19/22 14:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:20	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.50	1		02/19/22 14:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-14S **Lab ID: 92587091020** Collected: 02/10/22 16:20 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 11:36		
pH	**4.50**	Std. Units			1		02/14/22 11:36		
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	02/23/22 14:15	02/23/22 23:59	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	0.00078	1	02/23/22 14:12	02/24/22 18:45	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:45	7440-38-2	B
Barium	**0.0088**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:45	7440-39-3	
Beryllium	**0.00025J**	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:45	7440-41-7	
Boron	**0.020J**	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:45	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:45	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	02/21/22 14:45	02/22/22 10:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**56.0**	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.7**	mg/L	1.0	0.60	1		02/19/22 14:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:34	16984-48-8	
Sulfate	**6.2**	mg/L	1.0	0.50	1		02/19/22 14:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-DUP-2 **Lab ID: 92587091021** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 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	**1.2**	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:13	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	0.00078	1	02/23/22 14:12	02/24/22 18:51	7440-36-0	
Arsenic	**0.0015J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:51	7440-38-2	B
Barium	**0.0084**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:51	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:51	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:51	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	02/21/22 14:45	02/22/22 10:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**53.0**	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.7**	mg/L	1.0	0.60	1		02/19/22 14:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:47	16984-48-8	
Sulfate	**6.1**	mg/L	1.0	0.50	1		02/19/22 14:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-30I **Lab ID: 92587091022** Collected: 02/11/22 09:20 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 11:37		
pH	**5.59**	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.5**	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:18	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	0.00078	1	02/23/22 14:12	02/24/22 18:57	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:57	7440-38-2	B
Barium	**0.0077**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:57	7440-47-3	
Cobalt	**0.0038J**	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:57	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:57	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	02/21/22 14:45	02/22/22 10:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**66.0**	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		02/19/22 15:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 15:01	16984-48-8	
Sulfate	**2.8**	mg/L	1.0	0.50	1		02/19/22 15:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-4I **Lab ID: 92587091023** Collected: 02/11/22 10:40 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 11:37		
pH	**5.95**	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**7.5**	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:23	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	0.00078	1	02/23/22 14:12	02/24/22 19:03	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:03	7440-38-2	B
Barium	**0.013**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:03	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:03	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	02/21/22 14:45	02/22/22 11:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**102**	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.1**	mg/L	1.0	0.60	1		02/19/22 15:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 15:14	16984-48-8	
Sulfate	**7.7**	mg/L	1.0	0.50	1		02/19/22 15:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-5D **Lab ID: 92587091024** Collected: 02/10/22 17:46 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 11:37		
pH	**6.99**	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**24.8**	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:27	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	0.00078	1	02/23/22 14:12	02/24/22 19:20	7440-36-0	
Arsenic	**0.0040J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:20	7440-38-2	B
Barium	**0.0084**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:20	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:20	7439-92-1	
Lithium	**0.0076J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:20	7439-93-2	
Molybdenum	**0.00096J**	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:20	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	02/21/22 14:45	02/22/22 11:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**127**	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		02/19/22 15:54	16887-00-6	
Fluoride	**0.055J**	mg/L	0.10	0.050	1		02/19/22 15:54	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.50	1		02/19/22 15:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-EB-2 **Lab ID: 92587091025** Collected: 02/10/22 11:40 Received: 02/11/22 16:45 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	02/23/22 14:15	02/24/22 00:37	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	0.00078	1	02/23/22 14:12	02/24/22 19:32	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:32	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:32	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	02/21/22 14:45	02/22/22 11:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/19/22 16:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:08	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 16:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-FB-2 **Lab ID: 92587091026** Collected: 02/10/22 17:13 Received: 02/11/22 16:45 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	02/23/22 14:15	02/24/22 00:42	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	0.00078	1	02/23/22 14:12	02/24/22 19:38	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:38	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:38	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	02/21/22 14:45	02/22/22 11:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/19/22 16:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 16:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680120 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

METHOD BLANK: 3558408 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/23/22 19:59	

LABORATORY CONTROL SAMPLE: 3558409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558410 3558411

Parameter	Units	92587089004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	9.3	1	1	10.5	10.5	117	119	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680226 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3558817 — Matrix: Water
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/23/22 22:33	

LABORATORY CONTROL SAMPLE: 3558818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0J	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558819 3558820

Parameter	Units	92587091010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	30.3	1	1	30.2	29.9	-12	-45	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680115
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

METHOD BLANK: 3558393 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/23/22 18:18	
Arsenic	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Barium	mg/L	ND	0.0050	0.00067	02/23/22 18:18	
Beryllium	mg/L	ND	0.00050	0.000054	02/23/22 18:18	
Boron	mg/L	ND	0.040	0.0086	02/23/22 18:18	
Cadmium	mg/L	ND	0.00050	0.00011	02/23/22 18:18	
Chromium	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Cobalt	mg/L	ND	0.0050	0.00039	02/23/22 18:18	
Copper	mg/L	ND	0.0050	0.00050	02/23/22 18:18	
Lead	mg/L	ND	0.0010	0.00089	02/23/22 18:18	
Lithium	mg/L	ND	0.030	0.00073	02/23/22 18:18	
Molybdenum	mg/L	ND	0.010	0.00074	02/23/22 18:18	
Nickel	mg/L	ND	0.0050	0.00071	02/23/22 18:18	
Selenium	mg/L	ND	0.0050	0.0014	02/23/22 18:18	
Silver	mg/L	ND	0.0050	0.00044	02/23/22 18:18	
Thallium	mg/L	ND	0.0010	0.00018	02/23/22 18:18	
Vanadium	mg/L	ND	0.010	0.0019	02/23/22 18:18	
Zinc	mg/L	ND	0.010	0.0070	02/23/22 18:18	

LABORATORY CONTROL SAMPLE: 3558394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	106	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	104	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Nickel	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Silver	mg/L	0.1	0.10	104	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

LABORATORY CONTROL SAMPLE: 3558394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	101	80-120	
Vanadium	mg/L	0.1	0.11	107	80-120	
Zinc	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558395 3558396

Parameter	Units	92587089002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20	
Arsenic	mg/L	0.0021J	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Barium	mg/L	0.083	0.1	0.1	0.18	0.18	92	100	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Boron	mg/L	2.4	1	1	3.4	3.6	100	115	75-125	4	20	
Cadmium	mg/L	0.00033J	0.1	0.1	0.10	0.10	101	102	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Copper	mg/L	0.0016J	0.1	0.1	0.10	0.10	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Lithium	mg/L	0.0076J	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Molybdenum	mg/L	0.0011J	0.1	0.1	0.11	0.11	107	109	75-125	2	20	
Nickel	mg/L	0.0024J	0.1	0.1	0.11	0.11	104	104	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.097	97	97	75-125	1	20	
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	1	20	
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680225
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3558813
Matrix: Water
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/22 16:57	
Arsenic	mg/L	0.0015J	0.0050	0.0011	02/24/22 16:57	
Barium	mg/L	ND	0.0050	0.00067	02/24/22 16:57	
Beryllium	mg/L	ND	0.00050	0.000054	02/24/22 16:57	
Boron	mg/L	ND	0.040	0.0086	02/24/22 16:57	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/22 16:57	
Chromium	mg/L	0.0019J	0.0050	0.0011	02/24/22 16:57	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/22 16:57	
Lead	mg/L	ND	0.0010	0.00089	02/24/22 16:57	
Lithium	mg/L	ND	0.030	0.00073	02/24/22 16:57	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/22 16:57	
Selenium	mg/L	ND	0.0050	0.0014	02/24/22 16:57	
Thallium	mg/L	ND	0.0010	0.00018	02/24/22 16:57	

LABORATORY CONTROL SAMPLE: 3558814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	102	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	102	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558815 3558816

Parameter	Units	92587091009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	110	75-125	3	20	
Arsenic	mg/L	0.0018J	0.1	0.1	0.10	0.11	102	104	75-125	2	20	
Barium	mg/L	0.0031J	0.1	0.1	0.11	0.11	102	106	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	20	
Boron	mg/L	ND	1	1	1.1	1.1	109	106	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Lithium	mg/L	0.021J	0.1	0.1	0.13	0.13	114	113	75-125	1	20	
Molybdenum	mg/L	0.0087J	0.1	0.1	0.12	0.12	107	110	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.10	98	103	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678406
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

METHOD BLANK: 3550211 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/16/22 14:36	

LABORATORY CONTROL SAMPLE: 3550212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550213 3550214

Parameter	Units	92587089001 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	0.0019	0.0018	77	74	75-125	4	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678756
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019

METHOD BLANK: 3551942 Matrix: Water
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/18/22 13:04	

LABORATORY CONTROL SAMPLE: 3551943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551944 3551945

Parameter	Units	92588161001 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	0.0022	0.0022	88	87	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679675 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3556124 Matrix: Water
Associated Lab Samples: 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/22/22 10:33	

LABORATORY CONTROL SAMPLE: 3556125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556126 3556127

Parameter	Units	92587091020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0026	96	101	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678110
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091001, 92587091002

METHOD BLANK: 3548928 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/14/22 15:13	

LABORATORY CONTROL SAMPLE: 3548929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3548930

Parameter	Units	92587701001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	297	1	25	

SAMPLE DUPLICATE: 3548931

Parameter	Units	92587089005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678369
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091003, 92587091004, 92587091005

METHOD BLANK: 3550014 Matrix: Water
Associated Lab Samples: 92587091003, 92587091004, 92587091005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/15/22 16:02	

LABORATORY CONTROL SAMPLE: 3550015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3550016

Parameter	Units	92587091003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	151	152	1	25	

SAMPLE DUPLICATE: 3550017

Parameter	Units	92587322007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1160	1080	7	25	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678370 — 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: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017

METHOD BLANK: 3550019 — Matrix: Water
Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/15/22 16:29	

LABORATORY CONTROL SAMPLE: 3550020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 3550021

Parameter	Units	92587705001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	36.0	37.0	3	25	

SAMPLE DUPLICATE: 3550022

Parameter	Units	92587091011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679091 | 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: 92587091018, 92587091019, 92587091020, 92587091021, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3553375 Matrix: Water
Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/17/22 16:05	

LABORATORY CONTROL SAMPLE: 3553376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3553377

Parameter	Units	92587319023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	300	0	25	

SAMPLE DUPLICATE: 3553378

Parameter	Units	92587089012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	186	2	25	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679094
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091022, 92587091023

METHOD BLANK: 3553381 Matrix: Water
Associated Lab Samples: 92587091022, 92587091023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/17/22 17:00	

LABORATORY CONTROL SAMPLE: 3553382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	365	91	80-120	

SAMPLE DUPLICATE: 3553383

Parameter	Units	92587090008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	772	800	4	25	

SAMPLE DUPLICATE: 3553384

Parameter	Units	92587090019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48.0	58.0	19	25	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678235
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587091001, 92587091002

METHOD BLANK: 3549593 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 01:58	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 01:58	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 01:58	

LABORATORY CONTROL SAMPLE: 3549594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.8	104	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549595 3549596

Parameter	Units	92585602018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.2	50	50	64.0	63.6	108	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	105	90-110	1	10	
Sulfate	mg/L	20.0	50	50	73.7	73.7	107	107	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549597 3549598

Parameter	Units	92587089005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.3	53.6	105	107	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	3	10	
Sulfate	mg/L	ND	50	50	52.2	53.5	104	107	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678236
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587091003, 92587091004, 92587091005

METHOD BLANK: 3549599 Matrix: Water
Associated Lab Samples: 92587091003, 92587091004, 92587091005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 09:24	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 09:24	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 09:24	

LABORATORY CONTROL SAMPLE: 3549600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549601 3549602

Parameter	Units	92587091003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	56.7	57.6	107	109	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	110	112	90-110	2	10	M1
Sulfate	mg/L	50.9	50	50	87.2	88.3	73	75	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549603 3549604

Parameter	Units	92587240001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.5	50	50	2.9	2.9	-13	-13	90-110	1	10	M1
Fluoride	mg/L	0.29	2.5	2.5	0.11	0.11	-7	-7	90-110	2	10	M1
Sulfate	mg/L	1.5	50	50	2.4	2.3	2	2	90-110	2	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678537
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016

METHOD BLANK: 3551059 Matrix: Water
Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/16/22 09:35	
Fluoride	mg/L	ND	0.10	0.050	02/16/22 09:35	
Sulfate	mg/L	ND	1.0	0.50	02/16/22 09:35	

LABORATORY CONTROL SAMPLE: 3551060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551061 3551062

Parameter	Units	92585949014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	62.2	59.5	124	119	90-110	4	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.0	2.9	120	114	90-110	5	10	M1
Sulfate	mg/L	ND	50	50	62.0	59.6	124	119	90-110	4	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551063 3551064

Parameter	Units	92587091007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.0	50	50	63.8	61.5	126	121	90-110	4	10	M1
Fluoride	mg/L	0.057J	2.5	2.5	3.1	3.0	123	119	90-110	3	10	M1
Sulfate	mg/L	9.3	50	50	71.8	69.6	125	121	90-110	3	10	M1

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Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678877
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587091017

METHOD BLANK: 3552679 Matrix: Water
Associated Lab Samples: 92587091017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/17/22 01:57	
Fluoride	mg/L	ND	0.10	0.050	02/17/22 01:57	
Sulfate	mg/L	ND	1.0	0.50	02/17/22 01:57	

LABORATORY CONTROL SAMPLE: 3552680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	47.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552681 3552682

Parameter	Units	92587091017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.7	50	50	50.7	51.6	98	100	90-110	2	10	
Fluoride	mg/L	0.10	2.5	2.5	2.5	2.6	97	99	90-110	2	10	
Sulfate	mg/L	3.9	50	50	52.8	53.7	98	100	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552683 3552684

Parameter	Units	92587687006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.0	51.1	102	102	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	101	99	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.8	50.8	101	101	90-110	0	10	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679365
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3554816 Matrix: Water
Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/19/22 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/19/22 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/19/22 13:13	

LABORATORY CONTROL SAMPLE: 3554817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554818 3554819

Parameter	Units	92587091018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.4	50	50	54.8	55.6	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	106	90-110	2	10	
Sulfate	mg/L	2.4	50	50	52.5	53.6	100	102	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554820 3554821

Parameter	Units	92587090007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.2	50	50	55.9	56.1	103	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	3.0	3.1	121	123	90-110	1	10	M1
Sulfate	mg/L	452	50	50	488	491	73	78	90-110	1	10	M1

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

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: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091001	**YGWA-39**				
92587091002	**YGWA-40**				
92587091003	**YGWA-47**				
92587091004	**GWA-2**				
92587091006	**YGWA-1I**				
92587091007	**YGWA-1D**				
92587091008	**YGWA-2I**				
92587091009	**YGWA-3I**				
92587091010	**YGWA-3D**				
92587091013	**YGWA-17S**				
92587091014	**YGWA-18S**				
92587091015	**YGWA-18I**				
92587091016	**YGWA-20S**				
92587091017	**YGWA-21I**				
92587091018	**YGWA-5I**				
92587091020	**YGWA-14S**				
92587091022	**YGWA-30I**				
92587091023	**YGWA-4I**				
92587091024	**YGWA-5D**				
92587091001	**YGWA-39**	EPA 3010A	680120	EPA 6010D	680402
92587091002	**YGWA-40**	EPA 3010A	680120	EPA 6010D	680402
92587091003	**YGWA-47**	EPA 3010A	680120	EPA 6010D	680402
92587091004	**GWA-2**	EPA 3010A	680120	EPA 6010D	680402
92587091005	**UP-DUP-1**	EPA 3010A	680120	EPA 6010D	680402
92587091006	**YGWA-1I**	EPA 3010A	680120	EPA 6010D	680402
92587091007	**YGWA-1D**	EPA 3010A	680120	EPA 6010D	680402
92587091008	**YGWA-2I**	EPA 3010A	680120	EPA 6010D	680402
92587091009	**YGWA-3I**	EPA 3010A	680226	EPA 6010D	680419
92587091010	**YGWA-3D**	EPA 3010A	680226	EPA 6010D	680419
92587091011	**UP-EB-1**	EPA 3010A	680226	EPA 6010D	680419
92587091012	**UP-FB-1**	EPA 3010A	680226	EPA 6010D	680419
92587091013	**YGWA-17S**	EPA 3010A	680226	EPA 6010D	680419
92587091014	**YGWA-18S**	EPA 3010A	680226	EPA 6010D	680419
92587091015	**YGWA-18I**	EPA 3010A	680226	EPA 6010D	680419
92587091016	**YGWA-20S**	EPA 3010A	680226	EPA 6010D	680419
92587091017	**YGWA-21I**	EPA 3010A	680226	EPA 6010D	680419
92587091018	**YGWA-5I**	EPA 3010A	680226	EPA 6010D	680419
92587091019	**UP-DUP-3**	EPA 3010A	680226	EPA 6010D	680419
92587091020	**YGWA-14S**	EPA 3010A	680226	EPA 6010D	680419
92587091021	**UP-DUP-2**	EPA 3010A	680226	EPA 6010D	680419
92587091022	**YGWA-30I**	EPA 3010A	680226	EPA 6010D	680419
92587091023	**YGWA-4I**	EPA 3010A	680226	EPA 6010D	680419
92587091024	**YGWA-5D**	EPA 3010A	680226	EPA 6010D	680419
92587091025	**UP-EB-2**	EPA 3010A	680226	EPA 6010D	680419
92587091026	**UP-FB-2**	EPA 3010A	680226	EPA 6010D	680419
92587091001	**YGWA-39**	EPA 3005A	680115	EPA 6020B	680441
92587091002	**YGWA-40**	EPA 3005A	680115	EPA 6020B	680441

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091003	YGWA-47	EPA 3005A	680115	EPA 6020B	680441
92587091004	GWA-2	EPA 3005A	680115	EPA 6020B	680441
92587091005	UP-DUP-1	EPA 3005A	680115	EPA 6020B	680441
92587091006	YGWA-1I	EPA 3005A	680115	EPA 6020B	680441
92587091007	YGWA-1D	EPA 3005A	680115	EPA 6020B	680441
92587091008	YGWA-2I	EPA 3005A	680115	EPA 6020B	680441
92587091009	YGWA-3I	EPA 3005A	680225	EPA 6020B	680450
92587091010	YGWA-3D	EPA 3005A	680225	EPA 6020B	680450
92587091011	UP-EB-1	EPA 3005A	680225	EPA 6020B	680450
92587091012	UP-FB-1	EPA 3005A	680225	EPA 6020B	680450
92587091013	YGWA-17S	EPA 3005A	680225	EPA 6020B	680450
92587091014	YGWA-18S	EPA 3005A	680225	EPA 6020B	680450
92587091015	YGWA-18I	EPA 3005A	680225	EPA 6020B	680450
92587091016	YGWA-20S	EPA 3005A	680225	EPA 6020B	680450
92587091017	YGWA-21I	EPA 3005A	680225	EPA 6020B	680450
92587091018	YGWA-5I	EPA 3005A	680225	EPA 6020B	680450
92587091019	UP-DUP-3	EPA 3005A	680225	EPA 6020B	680450
92587091020	YGWA-14S	EPA 3005A	680225	EPA 6020B	680450
92587091021	UP-DUP-2	EPA 3005A	680225	EPA 6020B	680450
92587091022	YGWA-30I	EPA 3005A	680225	EPA 6020B	680450
92587091023	YGWA-4I	EPA 3005A	680225	EPA 6020B	680450
92587091024	YGWA-5D	EPA 3005A	680225	EPA 6020B	680450
92587091025	UP-EB-2	EPA 3005A	680225	EPA 6020B	680450
92587091026	UP-FB-2	EPA 3005A	680225	EPA 6020B	680450
92587091001	YGWA-39	EPA 7470A	678406	EPA 7470A	678665
92587091002	YGWA-40	EPA 7470A	678406	EPA 7470A	678665
92587091003	YGWA-47	EPA 7470A	678406	EPA 7470A	678665
92587091004	GWA-2	EPA 7470A	678406	EPA 7470A	678665
92587091005	UP-DUP-1	EPA 7470A	678406	EPA 7470A	678665
92587091006	YGWA-1I	EPA 7470A	678406	EPA 7470A	678665
92587091007	YGWA-1D	EPA 7470A	678406	EPA 7470A	678665
92587091008	YGWA-2I	EPA 7470A	678406	EPA 7470A	678665
92587091009	YGWA-3I	EPA 7470A	678756	EPA 7470A	679374
92587091010	YGWA-3D	EPA 7470A	678756	EPA 7470A	679374
92587091011	UP-EB-1	EPA 7470A	678756	EPA 7470A	679374
92587091012	UP-FB-1	EPA 7470A	678756	EPA 7470A	679374
92587091013	YGWA-17S	EPA 7470A	678756	EPA 7470A	679374
92587091014	YGWA-18S	EPA 7470A	678756	EPA 7470A	679374
92587091015	YGWA-18I	EPA 7470A	678756	EPA 7470A	679374
92587091016	YGWA-20S	EPA 7470A	678756	EPA 7470A	679374
92587091017	YGWA-21I	EPA 7470A	678756	EPA 7470A	679374
92587091018	YGWA-5I	EPA 7470A	678756	EPA 7470A	679374
92587091019	UP-DUP-3	EPA 7470A	678756	EPA 7470A	679374
92587091020	YGWA-14S	EPA 7470A	679675	EPA 7470A	679921
92587091021	UP-DUP-2	EPA 7470A	679675	EPA 7470A	679921
92587091022	YGWA-30I	EPA 7470A	679675	EPA 7470A	679921
92587091023	YGWA-4I	EPA 7470A	679675	EPA 7470A	679921

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091024	**YGWA-5D**	EPA 7470A	679675	EPA 7470A	679921
92587091025	**UP-EB-2**	EPA 7470A	679675	EPA 7470A	679921
92587091026	**UP-FB-2**	EPA 7470A	679675	EPA 7470A	679921
92587091001	**YGWA-39**	SM 2540C-2015	678110		
92587091002	**YGWA-40**	SM 2540C-2015	678110		
92587091003	**YGWA-47**	SM 2540C-2015	678369		
92587091004	**GWA-2**	SM 2540C-2015	678369		
92587091005	**UP-DUP-1**	SM 2540C-2015	678369		
92587091006	**YGWA-1I**	SM 2540C-2015	678370		
92587091007	**YGWA-1D**	SM 2540C-2015	678370		
92587091008	**YGWA-2I**	SM 2540C-2015	678370		
92587091009	**YGWA-3I**	SM 2540C-2015	678370		
92587091010	**YGWA-3D**	SM 2540C-2015	678370		
92587091011	**UP-EB-1**	SM 2540C-2015	678370		
92587091012	**UP-FB-1**	SM 2540C-2015	678370		
92587091013	**YGWA-17S**	SM 2540C-2015	678370		
92587091014	**YGWA-18S**	SM 2540C-2015	678370		
92587091015	**YGWA-18I**	SM 2540C-2015	678370		
92587091016	**YGWA-20S**	SM 2540C-2015	678370		
92587091017	**YGWA-21I**	SM 2540C-2015	678370		
92587091018	**YGWA-5I**	SM 2540C-2015	679091		
92587091019	**UP-DUP-3**	SM 2540C-2015	679091		
92587091020	**YGWA-14S**	SM 2540C-2015	679091		
92587091021	**UP-DUP-2**	SM 2540C-2015	679091		
92587091022	**YGWA-30I**	SM 2540C-2015	679094		
92587091023	**YGWA-4I**	SM 2540C-2015	679094		
92587091024	**YGWA-5D**	SM 2540C-2015	679091		
92587091025	**UP-EB-2**	SM 2540C-2015	679091		
92587091026	**UP-FB-2**	SM 2540C-2015	679091		
92587091001	**YGWA-39**	EPA 300.0 Rev 2.1 1993	678235		
92587091002	**YGWA-40**	EPA 300.0 Rev 2.1 1993	678235		
92587091003	**YGWA-47**	EPA 300.0 Rev 2.1 1993	678236		
92587091004	**GWA-2**	EPA 300.0 Rev 2.1 1993	678236		
92587091005	**UP-DUP-1**	EPA 300.0 Rev 2.1 1993	678236		
92587091006	**YGWA-1I**	EPA 300.0 Rev 2.1 1993	678537		
92587091007	**YGWA-1D**	EPA 300.0 Rev 2.1 1993	678537		
92587091008	**YGWA-2I**	EPA 300.0 Rev 2.1 1993	678537		
92587091009	**YGWA-3I**	EPA 300.0 Rev 2.1 1993	678537		
92587091010	**YGWA-3D**	EPA 300.0 Rev 2.1 1993	678537		
92587091011	**UP-EB-1**	EPA 300.0 Rev 2.1 1993	678537		
92587091012	**UP-FB-1**	EPA 300.0 Rev 2.1 1993	678537		
92587091013	**YGWA-17S**	EPA 300.0 Rev 2.1 1993	678537		
92587091014	**YGWA-18S**	EPA 300.0 Rev 2.1 1993	678537		
92587091015	**YGWA-18I**	EPA 300.0 Rev 2.1 1993	678537		

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Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091016	**YGWA-20S**	EPA 300.0 Rev 2.1 1993	678537		
92587091017	**YGWA-21I**	EPA 300.0 Rev 2.1 1993	678877		
92587091018	**YGWA-5I**	EPA 300.0 Rev 2.1 1993	679365		
92587091019	**UP-DUP-3**	EPA 300.0 Rev 2.1 1993	679365		
92587091020	**YGWA-14S**	EPA 300.0 Rev 2.1 1993	679365		
92587091021	**UP-DUP-2**	EPA 300.0 Rev 2.1 1993	679365		
92587091022	**YGWA-30I**	EPA 300.0 Rev 2.1 1993	679365		
92587091023	**YGWA-4I**	EPA 300.0 Rev 2.1 1993	679365		
92587091024	**YGWA-5D**	EPA 300.0 Rev 2.1 1993	679365		
92587091025	**UP-EB-2**	EPA 300.0 Rev 2.1 1993	679365		
92587091026	**UP-FB-2**	EPA 300.0 Rev 2.1 1993	679365		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92587091

92587091

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/22

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

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

Thermometer: ☑ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.3 **Correction Factor:** Add/Subtract (°C) +0.2

Cooler Temp Corrected (°C): 2.5

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

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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

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

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

Project #

WO# : 92587091

PM: NMG Due Date: 02/23/22

CLIENT: GA-GA Power

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)	AG3A(DG3A)-250 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)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (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)	BP1N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2					
2		1	1			1																		2					
3		1	1			1																		2					
4		1	1			1																		2					
5		1	1			1																		2					
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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WT	G	2/8/22	1455	–	–		5	2	3							X	X	X	X			pH: 5.78
2	YGWA-40	WT	G	2/8/22	1522	–	–		5	2	3							X	X	X	X			pH: 5.26
3	~~YGWA-1I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
4	~~YGWA-1D~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
5	~~YGWA-2I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
6	~~YGWA-3I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
7	~~YGWA-3D~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
8	~~YGWA-14S~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
9	~~UP-DUP-2~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
10	~~YGWA-30I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
11	~~UP-EB-1~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
12	~~UP-FB-1~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kurt Lapszynski

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App IV (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G	2/8/22	1140	–	–		5	2		3							X	X	X	X			pH: 5.70
2	~~GWA-2~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X	X		pH:
3	~~UP-DUP-1~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X	X		pH:
4	~~YGWA-4I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
5	~~YGWA-5I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X				pH:
6	~~UP-DUP-3~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
7	~~YGWA-5D~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
8	~~YGWA-17S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
9	~~UGWA-18S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
10	~~YGWA-18I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
11	~~YGWA-20S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
12	~~YGWA-21I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chestnut

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~YGWA-1I~~	WT	G						5	2		3						X	X	X	X			pH:
2	GWA-2	WT	G		1045	02-08	1150		5	2		3						X	X	X	X	X		pH: 5.83
3	UP-DUP-1	WT	G	02-08		–	–		5	2		3						X	X	X	X	X		pH:
4	~~YGWA-1I~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
5	~~YGWA-5I~~	WT	G			–	–		5	2		3						X	X	X	·			pH:
6	~~UP-DUP-3~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
7	~~YGWA-5D~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
8	~~YGWA-17S~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
9	UGWA-18S	WT	G			–	–		5	2		3						X	X	X	X			pH:
10	~~YGWA-18I~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
11	~~YGWA-20S~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
12	~~YGWA-21I~~	WT	G			–	–		5	2		3						X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	2/9/22	0840		2/9/22	0840	
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: DATE Signed: 02-09-22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Georgia Power Co. – Plant Yates

Data Review Report

Radium Analyses

SDG #92587080

Analyses Performed By:
Pace Analytical Services – Greensburg, Pennsylvania

Report #45261R
Review Level: Tier II
Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587080 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
YGWC-49	92587080001	Water	2/8/2022		X		
YGWC-41	92587080002	Water	2/8/2022		X		
AMA-DUP-2	92587080003	Water	2/8/2022	YGWC-41	X		
YGWC-43	92587080004	Water	2/8/2022		X		
AMA-EB-1	92587080005	Water	2/8/2022		X		
YAMW-5	92587080006	Water	2/10/2022		X		
PZ-37	92587080007	Water	2/10/2022		X		
AMA-DUP-4	92587080008	Water	2/10/2022	PZ-37	X		
PZ-51	92587080009	Water	2/10/2022		X		
YAMW-1	92587080010	Water	2/10/2022		X		
PZ-35	92587080011	Water	2/10/2022		X		
YAMW-4	92587080012	Water	2/10/2022		X		
YGWC-23S	92587080013	Water	2/10/2022		X		
YGWC-38	92587080014	Water	2/10/2022		X		
YGWC-42	92587080015	Water	2/10/2022		X		
YGWC-24SA	92587080016	Water	2/10/2022		X		
AMA-DUP-1	92587080017	Water	2/10/2022	YGWC-24SA	X		
YGWC-36A	92587080018	Water	2/11/2022		X		
YAMW-2	92587080019	Water	2/10/2022		X		

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAMW-3	92587080020	Water	2/10/2022		X		
AMA-EB-2	92587080021	Water	2/10/2022		X		
AMA-FB-1	92587080022	Water	2/10/2022		X		
AMA-FB-2	92587080023	Water	2/10/2022		X		
PZ-37D	92587080024	Water	2/11/2022		X		
PZ-52D	92587080025	Water	2/11/2022		X		

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 9315 and 9320. 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), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot

be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

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 (MCD).

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

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

Radium-228, Radium-226, and total Radium were detected in the method blanks, and equipment blank AMA-EB-2, and field blank AMA-FB-2, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

Radium-226 was detected in equipment blank AMA-EB-1 at an activity above the MDC. The associated field sample results were either less than the MDC or had a NAD greater than 2.58, hence, no qualification of the results was required.

Radium-228 was detected in field blank AMA-FB-1 at an activity above the MDC. The associated field sample results were less than the MDC, hence, no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

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

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

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

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

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

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

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

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

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

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

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

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

The laboratory duplicate analysis performed on sample location PZ-52D in association with SW-846 9315 analysis exhibited acceptable difference between the results.

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-41 / AMA-DUP-2	Radium-226	0.0438 ± 0.104	0.187 ± 0.143	AC
	Radium-228	0.550 ± 0.383	-0.113 ± 0.387	
	Total Radium	0.594 ± 0.487	0.187 ± 0.530	
PZ-37 / AMA-DUP-4	Radium-226	0.430 ± 0.179	0.583 ± 0.199	AC
	Radium-228	0.380 ± 0.569	-0.213 ± 0.705	
	Total Radium	0.810 ± 0.748	0.583 ± 0.904	
YGWC-24SA / AMA-DUP-1	Radium-226	0.0181 ± 0.0599	0.0380 ± 0.0672	AC
	Radium-228	0.828 ± 0.513	-0.0252 ± 0.520	
	Total Radium	0.846 ± 0.573	0.0380 ± 0.587	

Note:
AC = Acceptable

The differences in the results between the parent sample YGWC-41 and field duplicate sample AMA-DUP-2 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample PZ-37 and field duplicate sample AMA-DUP-4 were acceptable. It was noted that the Radium-228 and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWC-24SA and field duplicate sample AMA-DUP-1 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

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 should be considered non-detect as follows:

- YGWC-49, YGWC-41, AMA-DUP-2, YAMW-4, YGWC-23S, YGWC-38, YGWC-24SA, AMA-DUP-1, YGWC-36A, and YAMW-2 – Radium-226, Radium-228, and total Radium
- YAMW-5, PZ-37, AMA-DUP-4, PZ-51, YAMW-1, PZ-35, YGWC-42, YAMW-3, and PZ-37D – Radium-228 and total Radium

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

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

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: April 26, 2022

PEER REVIEW: Dennis Capria

DATE: April 27, 2022

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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Company:	GA Power
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Project Number:	

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Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: | State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~YGWC-23S~~	WT	G	~~2/1/22~~	~~1030~~	–	–		5	2		3						X	X	X	X			
2	~~YGWC-24SA~~	WT	G				–		5	2		3						X	X	X	X			
3	~~AMA-DUP-1~~	WT	G			–	–		5	2		3						X	X	X	X			
4	~~YGWC-36A~~	WT	G						5	2		3						X	X	X	X			
5	YGWC-49	WT	G	2/8/22	1800	–	–		5	2		3						X	X	X	X			pH: 5.79
6	~~YGWC-38~~	WT	G			–	–		5	2		3						X	X	X	X			
7	YGWC-41	WT	G	2/8/22	1620	–	–		5	2		3						X	X	X	X			pH: 5.07
8	AMA-DUP-2	WT	G	2/8/22	—	–	–		5	2		3						X	X	X	X			pH: —
9	~~YGWC-42~~	WT	G			–	–		5	2		3						X	X	X	X			
10	~~YGWC-43~~	WT	G	~~2/1/22~~	~~1000~~ (R2)		–		5	2		3						X	X	X	X			
11	YAMW-2	WT	G			–	–		5	2		3						X	X	X	X			
12	~~YAMW-3~~	WT	G			–	–		5	2		3						X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: | DATE Signed: 2/9/22

TEMP In C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : | Of

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency:

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWC-23S~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
2	~~YGWC-24SA~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
3	~~AMA-DUP-1~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
4	~~YGWC-36A~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
5	~~YGWC-49~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
6	~~YGWC-38~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
7	~~YGWC-4T~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
8	~~AMA-DUP-2~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
9	~~YGWC-42~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
10	YGWC-43	WT	G	2/8/22	10:20	–	–		5	2		3							X	X	X	X		pH: 5.82
11	~~YAMW-2~~	WT	G			–	–		5	2		3							X	X	X	X		pH:
12	~~YAMW-3~~	WT	G			–	–		5	2		3							X	X	X	X		pH:

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/9/22	0827		2/9/22	0827	
App III Metals: Boron 6020B, Ca 6010D		2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware — DATE Signed: 2/9/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	
Pace Profile #:	10840

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Regulatory Agency:

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	AMA-EB-1	WT	G	2/8/22	1530	–	–		5	2		3						X	X	X	X	
2	~~AMA-EB-2~~	WT	G			–	–		5	2		3						X	X	X	X	
3	~~AMA-FB-1~~	WT	G			–	–		5	2		3						X	X	X	X	
4	~~AMA-FB-2~~	WT	G						5	2		3						X	X	X	X	
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lipszynski /Arcadis	2/9/22	0825	Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D	TArcadis	2/9/22	0918		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lipszynski

SIGNATURE of SAMPLER:

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YAMW-4	WT	G	2/10/22	1130	--	--		5	2		3						X	X	X	X		pH: 5.22
2	~~YAMW-5~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
3	PZ-37	WT	G	2/10/22	1305	--	--		5	2		3						X	X	X	X		pH: 4.93
4	AMA-DUP-4	WT	G	2/10/22	—	--	--		5	2		3						X	X	X	X		pH: —
5	~~PZ-37D~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
6	PZ-51	WT	G	2/10/22	1810	--	--		5	2		3						X	X	X	X		pH: 11.06
7	~~PZ-52D~~	WT	G						5	2		3						X	X	X	X		pH:
8	~~YAMW-1~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
9	~~PZ-35~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
10						--	--																
11						--	--																
12						--	--																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Kharill Carson	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Kharill Carson /Arcadis	2/11/22	1645		2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: DATE Signed: 2/11/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 4

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~YAMW-4~~	~~WT~~	~~G~~			–	–		~~5~~	2		3						X	X	X	X		pH:
2	YAMW-5	~~WT~~	~~G~~			–	–		~~5~~	2		3						X	X	X	X		pH:
3	PZ-37	~~WT~~	~~G~~			–	–		5	2		3						X	X	X	X		pH:
4	~~AMA-DUP-4~~	~~WT~~	~~G~~			–	–		~~5~~	2		3						X	X	X	X		pH:
5	~~PZ-37D~~	~~WT~~	~~G~~			–	–		~~5~~	2		3						X	X	X	X		pH:
6	~~PZ-51~~	~~WT~~	~~G~~			–	–		~~5~~	2		3						X	X	X	X		pH:
7	~~PZ-52D~~	~~WT~~	~~G~~			–	–		~~5~~	2		3						X	X	X	X		pH:
8	YAMW-1	WT	G	2/1/22	1155	–	–		5	2		3						X	X	X	X		pH: 5.80
9	PZ-35	WT	G	2/1/22	1437	–	–		5	2		3						X	X	X	X		pH: 5.35
10						–	–																
11						–	–																
12						–	–																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/1/22	1745	/Arcadis	2/1/22	1445	
App III Metals: Boron 6020B, Ca 6010D		2/1/22	1645		2/1/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chester

SIGNATURE of SAMPLER: DATE Signed: 2/1/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: | State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YAMW-4	WT	G	2/10/22	1200	--	--		5	2		3							X	X	X	X		pH: 6.10
2	~~YAMW-5~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
3	~~PZ-37~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
4	~~AMA-DUP-4~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
5	~~PZ-37D~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
6	~~PZ-51~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
7	~~PZ-52D~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
8	YAMW-1	WT	G			--	--		5	2		3							X	X	X	X		pH:
9	~~PZ-35~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
10						--	--																	
11						--	--																	
12						--	--																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/11/22	1445	Khalil Carson	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Khalil Carson	2/11/22	1645	[illegible]	2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/10/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.	
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:		
				Address:		Regulatory Agency
Email To:		Purchase Order #:		Pace Quote:		
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Nicole D'Oleo	State / Location
Requested Due Date:		Project Number:		Pace Profile #:	10840	Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Requested Analysis Filtered (Y/N)						
1	YGWC-23S	WT	G	2/10/22	1510	--	--		5	2		3						X	X	X	X			pH: 5.51
2	~~YGWC-24SA~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
3	~~AMA-DUP-1~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
4	~~YGWC-36A~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
5	~~YGWC-49~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
6	YGWC-38	WT	G	2/10/22	0950	--	--		5	2		3						X	X	X	X			pH: 4.85
7	~~YGWC-41~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
8	~~AMA-DUP-2~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
9	YGWC-42	WT	G	2/10/22	1635	--	--		5	2		3						X	X	X	X			pH: 5.57
10	~~YGWC-43~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
11	~~YAMW-2~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
12	~~YAMW-3~~	WT	G			--	--		5	2		3						X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Khalil Carter	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Khalil Carter/Arcadis	2/11/22	1645		2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/11/22				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 3 5

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location: Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWC-23S~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
2	YGWC-24SA	WT	G	02/10/22	1440	--	--		5	2		3						X	X	X	X		pH: 4.66
3	AMA-DUP-1	WT	G	02/11/22		--	--		5	2		3						X	X	X	X		pH:
4	~~YGWC-36A~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
5	~~YGWC-49~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
6	~~YGWC-38~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
7	~~YGWC-41~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
8	~~AMA-DUP-2~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
9	~~YGWC-42~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
10	~~YGWC-43~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
11	~~YAMW-2~~	WT	G			--	--		5	2		3						X	X	X	X		pH:
12	~~YAMW-3~~	WT	G			--	--		5	2		3						X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter Arcadis	2/11/21	1645		2/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Khalil Carter					
SIGNATURE of SAMPLER:		DATE Signed: 02/10/22				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	pH
1	~~YGWC-23S~~	WT	G			--	--		5	2		3						X	X	X	X			
2	~~YGWC-24SA~~	WT	G			--	--		5	2		3						X	X	X	X			
3	~~AMA-DUP-1~~	WT	G			--	--		5	2		3						X	X	X	X			
4	YGWC-36A	WT	G	2/11/22	1119	--	--		5	2		3						X	X	X	X			pH: 5.58
5	~~YGWC-49~~	WT	G			--	--		5	2		3						X	X	X	X			
6	~~YGWC-38~~	WT	G			--	--		5	2		3						X	X	X	X			
7	YGWC-41	WT	G			--	--		5	2		3						X	X	X	X			
8	~~AMA-DUP-2~~	WT	G			--	--		5	2		3						X	X	X	X			
9	~~YGWC-42~~	WT	G			--	--		5	2		3						X	X	X	X			
10	~~YGWC-43~~	WT	G			--	--		5	2		3						X	X	X	X			
11	YAMW-2	WT	G	2/10/22	0945	--	--		5	2		3						X	X	X	X			pH: 5.64
12	~~YAMW-3~~	WT	G	2/10/22	1535	--	--		5	2		3						X	X	X	X			pH: 5.93

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica deWare /Arcadis	2/11/22	1445	Michael Carson/Arcadis	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Michael Carson	2/11/22	1445	Joan Rose	2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:	Jessica Ware	DATE Signed: 2/10/22				

Page: 3 of 4

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:
		Address:
Email To:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: Plant Yates AMA-R6	Pace Project Manager:
Requested Due Date:	Project Number:	Pace Profile #: 10840

Regulatory Agency
State / Location
Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~AMA-EB-1~~	~~WT~~	~~G~~			–	–		5	2		3						X	X	X	X		
2	AMA-EB-2	WT	G	2/10/22	1246	–	–		5	2		3						X	X	X	X		MC
3	AMA-FB-1	WT	G	2/10/22	1502	–	–		5	2		3						X	X	X	X		KL
4	AMA-FB-2	WT	G	2/10/22	1600	–	–		5	2		3						X	X	X	X		MC
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Rhett Carson	2/11/22	1448	
App III Metals: Boron 6020B, Ca 6010D	Rhett Carson	2/11/22	1644		2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chester

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/11/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water CODE DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																							
1	~~YAMW-4~~	WT	G			--	--		~~5~~ 2			~~3~~						X	X	X	X		pH:
2	~~YAMW-5~~	WT	G			--	--		~~5~~ 2			~~3~~						X	X	X	X		pH:
3	~~PZ-37~~	WT	G			--	--		~~5~~ 2			~~3~~						X	X	X	X		pH:
4	~~AMA-DUP-4~~	WT	G			--	--		~~5~~ 2			~~3~~						X	X	X	X		pH:
5	PZ-37D	WT	G	2/11/22	1635	--	--		5	2		3						X	X	X	X		pH: 7.84
6	~~PZ-51~~	WT	G			--	--		~~5~~ 2			~~3~~						X	X	X	X		pH:
7	~~PZ-52D~~	WT	G			--	--		~~5~~ 2			~~3~~						X	X	X	X		pH:
8	~~YAMW-1~~	WT	G			--	--		~~5~~ 2			~~3~~						X	X	X	X		pH:
9	~~PZ-35~~	WT	G			--	--		~~5~~ 2			3						X	X	X	X		pH:
10						--	--																
11						--	--																
12						--	--																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/14/22	1325	Charles Parker	2/14/22	1324	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:	Jessica Ware	DATE Signed: 2/11/22				

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Page : Of

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Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~YAMW-4~~	WT	G			--	--		~~5~~		~~2~~	~~3~~							X	X	X	X	pH:
2	~~YAMW-5~~	WT	G			--	--		~~5~~		~~2~~	~~3~~							X	X	X	X	pH:
3	~~PZ-37~~	WT	G			--	--		~~5~~		~~2~~	~~3~~							X	X	X	X	pH:
4	~~AMA-DUP-4~~	WT	G			--	--		~~5~~		~~2~~	~~3~~							X	X	X	X	pH:
5	~~PZ-37D~~	WT	G			--	--		5		2	3							X	X	X	X	pH:
6	~~PZ-51~~	WT	G			--	--		~~5~~		2	3							X	X	X	X	pH:
7	PZ-52D	WT	G	2/11/22	1400	--	--		5		2	3							X	X	X	X	pH: 6.40
8	~~YAMW-1~~	WT	G			--	--		~~5~~		~~2~~	~~3~~							X	X	X	X	pH:
9	PZ-35	WT	G			--	--		~~5~~		~~2~~	~~6~~							X	X	X	X	pH:
10						--	--																
11						--	--																
12						--	--																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1314	/Arcadis	2/11/22	1314	
App III Metals: Boron 6020B, Ca 6010D		2/14/22	1325		2/11/22	1325	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapczynski

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/11/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587080	No qualifiers assigned						

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

April 12, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 14, 2022. 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,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Becky Steever, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587080001	YGWC-49	Water	02/08/22 18:00	02/09/22 10:18
92587080002	YGWC-41	Water	02/08/22 16:20	02/09/22 10:18
92587080003	AMA-DUP-2	Water	02/08/22 00:00	02/09/22 10:18
92587080004	YGWC-43	Water	02/08/22 10:20	02/09/22 10:18
92587080005	AMA-EB-1	Water	02/08/22 18:36	02/09/22 10:18
92587080006	YAMW-5	Water	02/10/22 11:30	02/11/22 16:45
92587080007	PZ-37	Water	02/10/22 13:05	02/11/22 16:45
92587080008	AMA-DUP-4	Water	02/10/22 00:00	02/11/22 16:45
92587080009	PZ-51	Water	02/10/22 18:10	02/11/22 16:45
92587080010	YAMW-1	Water	02/10/22 11:55	02/11/22 16:45
92587080011	PZ-35	Water	02/10/22 14:37	02/11/22 16:45
92587080012	YAMW-4	Water	02/10/22 12:00	02/11/22 16:45
92587080013	YGWC-23S	Water	02/10/22 15:10	02/11/22 16:45
92587080014	YGWC-38	Water	02/10/22 09:50	02/11/22 16:45
92587080015	YGWC-42	Water	02/10/22 16:35	02/11/22 16:45
92587080016	YGWC-24SA	Water	02/10/22 14:40	02/11/22 16:45
92587080017	AMA-DUP-1	Water	02/10/22 00:00	02/11/22 16:45
92587080018	YGWC-36A	Water	02/11/22 11:19	02/11/22 16:45
92587080019	YAMW-2	Water	02/10/22 09:45	02/11/22 16:45
92587080020	YAMW-3	Water	02/10/22 15:35	02/11/22 16:45
92587080021	AMA-EB-2	Water	02/10/22 12:46	02/11/22 16:45
92587080022	AMA-FB-1	Water	02/10/22 15:02	02/11/22 16:45
92587080023	AMA-FB-2	Water	02/10/22 16:00	02/11/22 16:45
92587080024	PZ-37D	Water	02/11/22 16:35	02/14/22 13:25
92587080025	PZ-52D	Water	02/11/22 14:00	02/14/22 13:25

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587080001	**YGWC-49**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080002	**YGWC-41**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080003	**AMA-DUP-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080004	**YGWC-43**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080005	**AMA-EB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080006	**YAMW-5**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080007	**PZ-37**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080008	**AMA-DUP-4**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080009	**PZ-51**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080010	**YAMW-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080011	**PZ-35**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080012	**YAMW-4**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080013	**YGWC-23S**	EPA 9315	JC2	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080014	**YGWC-38**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080015	**YGWC-42**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080016	**YGWC-24SA**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080017	**AMA-DUP-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080018	**YGWC-36A**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080019	**YAMW-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080020	**YAMW-3**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080021	**AMA-EB-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080022	**AMA-FB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080023	**AMA-FB-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080024	**PZ-37D**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080025	**PZ-52D**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080001	**YGWC-49**					
EPA 9315	Radium-226	0.201 ± 0.151 (0.252) C:93% T:NA	pCi/L		02/28/22 07:44	
EPA 9320	Radium-228	-0.0391 ± 0.363 (0.851) C:79% T:80%	pCi/L		02/25/22 15:02	
Total Radium Calculation	Total Radium	0.201 ± 0.514 (1.10)	pCi/L		02/28/22 18:24	
92587080002	**YGWC-41**					
EPA 9315	Radium-226	0.0438 ± 0.104 (0.247) C:99% T:NA	pCi/L		02/28/22 07:44	
EPA 9320	Radium-228	0.550 ± 0.383 (0.742) C:82% T:85%	pCi/L		02/25/22 15:02	
Total Radium Calculation	Total Radium	0.594 ± 0.487 (0.989)	pCi/L		02/28/22 18:24	
92587080003	**AMA-DUP-2**					
EPA 9315	Radium-226	0.187 ± 0.143 (0.250) C:102% T:NA	pCi/L		02/28/22 07:44	
EPA 9320	Radium-228	-0.113 ± 0.387 (0.928) C:67% T:78%	pCi/L		02/25/22 15:02	
Total Radium Calculation	Total Radium	0.187 ± 0.530 (1.18)	pCi/L		02/28/22 18:24	
92587080004	**YGWC-43**					
EPA 9315	Radium-226	2.34 ± 0.506 (0.185) C:101% T:NA	pCi/L		02/28/22 07:45	
EPA 9320	Radium-228	0.771 ± 0.380 (0.655) C:84% T:85%	pCi/L		02/25/22 15:02	
Total Radium Calculation	Total Radium	3.11 ± 0.886 (0.840)	pCi/L		02/28/22 18:24	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080005	**AMA-EB-1**					
EPA 9315	Radium-226	0.255 ± 0.151 (0.222) C:100% T:NA	pCi/L		02/28/22 07:45	
EPA 9320	Radium-228	0.400 ± 0.404 (0.841) C:85% T:88%	pCi/L		02/25/22 15:03	
Total Radium Calculation	Total Radium	0.655 ± 0.555 (1.06)	pCi/L		02/28/22 18:24	
92587080006	**YAMW-5**					
EPA 9315	Radium-226	0.552 ± 0.189 (0.174) C:92% T:NA	pCi/L		03/21/22 12:32	
EPA 9320	Radium-228	0.698 ± 0.586 (1.17) C:65% T:83%	pCi/L		03/14/22 19:44	
Total Radium Calculation	Total Radium	1.25 ± 0.775 (1.34)	pCi/L		03/22/22 15:20	
92587080007	**PZ-37**					
EPA 9315	Radium-226	0.430 ± 0.179 (0.231) C:94% T:NA	pCi/L		03/21/22 12:38	
EPA 9320	Radium-228	0.380 ± 0.569 (1.23) C:63% T:83%	pCi/L		03/14/22 19:44	
Total Radium Calculation	Total Radium	0.810 ± 0.748 (1.46)	pCi/L		03/22/22 15:20	
92587080008	**AMA-DUP-4**					
EPA 9315	Radium-226	0.583 ± 0.199 (0.179) C:93% T:NA	pCi/L		03/21/22 12:38	
EPA 9320	Radium-228	-0.213 ± 0.705 (1.70) C:60% T:68%	pCi/L		03/14/22 19:44	
Total Radium Calculation	Total Radium	0.583 ± 0.904 (1.88)	pCi/L		03/22/22 15:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080009	**PZ-51**					
EPA 9315	Radium-226	0.193 ± 0.116 (0.173) C:93% T:NA	pCi/L		03/21/22 12:38	
EPA 9320	Radium-228	0.771 ± 0.736 (1.50) C:60% T:73%	pCi/L		03/14/22 19:45	
Total Radium Calculation	Total Radium	0.964 ± 0.852 (1.67)	pCi/L		03/22/22 15:20	
92587080010	**YAMW-1**					
EPA 9315	Radium-226	0.233 ± 0.120 (0.138) C:89% T:NA	pCi/L		03/21/22 12:38	
EPA 9320	Radium-228	-0.364 ± 0.681 (1.68) C:65% T:70%	pCi/L		03/14/22 19:42	
Total Radium Calculation	Total Radium	0.233 ± 0.801 (1.82)	pCi/L		03/22/22 15:20	
92587080011	**PZ-35**					
EPA 9315	Radium-226	0.287 ± 0.180 (0.256) C:91% T:NA	pCi/L		03/21/22 12:38	
EPA 9320	Radium-228	0.966 ± 0.945 (1.93) C:58% T:71%	pCi/L		03/14/22 19:42	
Total Radium Calculation	Total Radium	1.25 ± 1.13 (2.19)	pCi/L		03/22/22 15:20	
92587080012	**YAMW-4**					
EPA 9315	Radium-226	0.0674 ± 0.0836 (0.170) C:84% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	0.635 ± 0.627 (1.28) C:66% T:78%	pCi/L		03/14/22 19:42	
Total Radium Calculation	Total Radium	0.702 ± 0.711 (1.45)	pCi/L		03/22/22 15:20	

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SUMMARY OF DETECTION

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080013	**YGWC-23S**					
EPA 9315	Radium-226	0.0552 ± 0.0696 (0.137) C:79% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	0.142 ± 0.492 (1.17) C:75% T:81%	pCi/L		03/15/22 12:07	
Total Radium Calculation	Total Radium	0.197 ± 0.562 (1.31)	pCi/L		03/22/22 15:20	
92587080014	**YGWC-38**					
EPA 9315	Radium-226	0.150 ± 0.102 (0.152) C:89% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	0.641 ± 0.476 (0.924) C:73% T:93%	pCi/L		03/15/22 12:07	
Total Radium Calculation	Total Radium	0.791 ± 0.578 (1.08)	pCi/L		03/22/22 15:20	
92587080015	**YGWC-42**					
EPA 9315	Radium-226	0.241 ± 0.126 (0.155) C:87% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	0.0659 ± 0.434 (0.983) C:75% T:88%	pCi/L		03/15/22 12:09	
Total Radium Calculation	Total Radium	0.307 ± 0.560 (1.14)	pCi/L		03/22/22 15:20	
92587080016	**YGWC-24SA**					
EPA 9315	Radium-226	0.0181 ± 0.0599 (0.152) C:89% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	0.828 ± 0.513 (0.988) C:78% T:84%	pCi/L		03/15/22 12:09	
Total Radium Calculation	Total Radium	0.846 ± 0.573 (1.14)	pCi/L		03/22/22 15:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080017	**AMA-DUP-1**					
EPA 9315	Radium-226	0.0380 ± 0.0672 (0.151) C:94% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	-0.0252 ± 0.520 (1.19) C:74% T:81%	pCi/L		03/15/22 12:09	
Total Radium Calculation	Total Radium	0.0380 ± 0.587 (1.34)	pCi/L		03/22/22 15:20	
92587080018	**YGWC-36A**					
EPA 9315	Radium-226	0.110 ± 0.113 (0.226) C:82% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	0.285 ± 0.511 (1.12) C:77% T:89%	pCi/L		03/15/22 15:08	
Total Radium Calculation	Total Radium	0.395 ± 0.624 (1.35)	pCi/L		03/22/22 15:20	
92587080019	**YAMW-2**					
EPA 9315	Radium-226	-0.00134 ± 0.0863 (0.237) C:97% T:NA	pCi/L		03/17/22 09:25	
EPA 9320	Radium-228	-0.135 ± 0.470 (1.12) C:75% T:85%	pCi/L		03/15/22 15:08	
Total Radium Calculation	Total Radium	0.000 ± 0.556 (1.36)	pCi/L		03/22/22 15:27	
92587080020	**YAMW-3**					
EPA 9315	Radium-226	0.609 ± 0.220 (0.222) C:103% T:NA	pCi/L		03/17/22 09:25	
EPA 9320	Radium-228	0.379 ± 0.508 (1.09) C:77% T:87%	pCi/L		03/15/22 15:09	
Total Radium Calculation	Total Radium	0.988 ± 0.728 (1.31)	pCi/L		03/22/22 15:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080021	**AMA-EB-2**					
EPA 9315	Radium-226	-0.00805 ± 0.0688 (0.204) C:97% T:NA	pCi/L		03/17/22 09:25	
EPA 9320	Radium-228	0.505 ± 0.551 (1.15) C:79% T:86%	pCi/L		03/15/22 15:09	
Total Radium Calculation	Total Radium	0.505 ± 0.620 (1.35)	pCi/L		03/22/22 15:27	
92587080022	**AMA-FB-1**					
EPA 9315	Radium-226	0.0556 ± 0.100 (0.228) C:96% T:NA	pCi/L		03/17/22 09:25	
EPA 9320	Radium-228	0.847 ± 0.456 (0.828) C:78% T:86%	pCi/L		03/15/22 15:40	
Total Radium Calculation	Total Radium	0.903 ± 0.556 (1.06)	pCi/L		03/22/22 15:27	
92587080023	**AMA-FB-2**					
EPA 9315	Radium-226	0.00412 ± 0.0936 (0.251) C:95% T:NA	pCi/L		03/17/22 09:25	
EPA 9320	Radium-228	-0.303 ± 0.308 (0.782) C:78% T:86%	pCi/L		03/15/22 15:40	
Total Radium Calculation	Total Radium	0.00412 ± 0.402 (1.03)	pCi/L		03/22/22 15:27	
92587080024	**PZ-37D**					
EPA 9315	Radium-226	0.728 ± 0.228 (0.164) C:96% T:NA	pCi/L		03/08/22 08:28	
EPA 9320	Radium-228	0.0872 ± 0.415 (0.945) C:85% T:88%	pCi/L		03/07/22 18:23	
Total Radium Calculation	Total Radium	0.815 ± 0.643 (1.11)	pCi/L		03/21/22 17:19	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080025	**PZ-52D**					
EPA 9315	Radium-226	0.708 ± 0.235 (0.211) C:91% T:NA	pCi/L		03/08/22 08:28	
EPA 9320	Radium-228	0.807 ± 0.421 (0.710) C:88% T:89%	pCi/L		03/07/22 18:22	
Total Radium Calculation	Total Radium	1.52 ± 0.656 (0.921)	pCi/L		03/21/22 17:19	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YGWC-49 **Lab ID: 92587080001** Collected: 02/08/22 18:00 Received: 02/09/22 10:18 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	**0.201 ± 0.151 (0.252) C:93% T:NA**	pCi/L	02/28/22 07:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0391 ± 0.363 (0.851) C:79% T:80%**	pCi/L	02/25/22 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.201 ± 0.514 (1.10)**	pCi/L	02/28/22 18:24	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YGWC-41 **Lab ID: 92587080002** Collected: 02/08/22 16:20 Received: 02/09/22 10:18 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	**0.0438 ± 0.104 (0.247) C:99% T:NA**	pCi/L	02/28/22 07:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.550 ± 0.383 (0.742) C:82% T:85%**	pCi/L	02/25/22 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.594 ± 0.487 (0.989)**	pCi/L	02/28/22 18:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: AMA-DUP-2 **Lab ID: 92587080003** Collected: 02/08/22 00:00 Received: 02/09/22 10:18 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	**0.187 ± 0.143 (0.250) C:102% T:NA**	pCi/L	02/28/22 07:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.113 ± 0.387 (0.928) C:67% T:78%**	pCi/L	02/25/22 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.187 ± 0.530 (1.18)**	pCi/L	02/28/22 18:24	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YGWC-43 **Lab ID: 92587080004** Collected: 02/08/22 10:20 Received: 02/09/22 10:18 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	**2.34 ± 0.506 (0.185) C:101% T:NA**	pCi/L	02/28/22 07:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.771 ± 0.380 (0.655) C:84% T:85%**	pCi/L	02/25/22 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.11 ± 0.886 (0.840)**	pCi/L	02/28/22 18:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: AMA-EB-1 **Lab ID: 92587080005** Collected: 02/08/22 18:36 Received: 02/09/22 10:18 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	**0.255 ± 0.151 (0.222) C:100% T:NA**	pCi/L	02/28/22 07:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.400 ± 0.404 (0.841) C:85% T:88%**	pCi/L	02/25/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.655 ± 0.555 (1.06)**	pCi/L	02/28/22 18:24	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YAMW-5 **Lab ID: 92587080006** Collected: 02/10/22 11:30 Received: 02/11/22 16:45 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	**0.552 ± 0.189 (0.174) C:92% T:NA**	pCi/L	03/21/22 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.698 ± 0.586 (1.17) C:65% T:83%**	pCi/L	03/14/22 19:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.25 ± 0.775 (1.34)**	pCi/L	03/22/22 15:20	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: PZ-37 **Lab ID: 92587080007** Collected: 02/10/22 13:05 Received: 02/11/22 16:45 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	**0.430 ± 0.179 (0.231) C:94% T:NA**	pCi/L	03/21/22 12:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.380 ± 0.569 (1.23) C:63% T:83%**	pCi/L	03/14/22 19:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.810 ± 0.748 (1.46)**	pCi/L	03/22/22 15:20	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: AMA-DUP-4 **Lab ID: 92587080008** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 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	**0.583 ± 0.199 (0.179) C:93% T:NA**	pCi/L	03/21/22 12:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.213 ± 0.705 (1.70) C:60% T:68%**	pCi/L	03/14/22 19:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.583 ± 0.904 (1.88)**	pCi/L	03/22/22 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: PZ-51 **Lab ID: 92587080009** Collected: 02/10/22 18:10 Received: 02/11/22 16:45 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	**0.193 ± 0.116 (0.173) C:93% T:NA**	pCi/L	03/21/22 12:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.771 ± 0.736 (1.50) C:60% T:73%**	pCi/L	03/14/22 19:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.964 ± 0.852 (1.67)**	pCi/L	03/22/22 15:20	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YAMW-1 **Lab ID: 92587080010** Collected: 02/10/22 11:55 Received: 02/11/22 16:45 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	**0.233 ± 0.120 (0.138) C:89% T:NA**	pCi/L	03/21/22 12:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.364 ± 0.681 (1.68) C:65% T:70%**	pCi/L	03/14/22 19:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.233 ± 0.801 (1.82)**	pCi/L	03/22/22 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: PZ-35 **Lab ID: 92587080011** Collected: 02/10/22 14:37 Received: 02/11/22 16:45 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	**0.287 ± 0.180 (0.256) C:91% T:NA**	pCi/L	03/21/22 12:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.966 ± 0.945 (1.93) C:58% T:71%**	pCi/L	03/14/22 19:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.25 ± 1.13 (2.19)**	pCi/L	03/22/22 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YAMW-4 **Lab ID: 92587080012** Collected: 02/10/22 12:00 Received: 02/11/22 16:45 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	**0.0674 ± 0.0836 (0.170) C:84% T:NA**	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.635 ± 0.627 (1.28) C:66% T:78%**	pCi/L	03/14/22 19:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.702 ± 0.711 (1.45)**	pCi/L	03/22/22 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YGWC-23S **Lab ID: 92587080013** Collected: 02/10/22 15:10 Received: 02/11/22 16:45 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	**0.0552 ± 0.0696 (0.137) C:79% T:NA**	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.142 ± 0.492 (1.17) C:75% T:81%**	pCi/L	03/15/22 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.197 ± 0.562 (1.31)**	pCi/L	03/22/22 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YGWC-38 **Lab ID: 92587080014** Collected: 02/10/22 09:50 Received: 02/11/22 16:45 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	**0.150 ± 0.102 (0.152) C:89% T:NA**	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.641 ± 0.476 (0.924) C:73% T:93%**	pCi/L	03/15/22 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.791 ± 0.578 (1.08)**	pCi/L	03/22/22 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YGWC-42 **Lab ID: 92587080015** Collected: 02/10/22 16:35 Received: 02/11/22 16:45 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	**0.241 ± 0.126 (0.155) C:87% T:NA**	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0659 ± 0.434 (0.983) C:75% T:88%**	pCi/L	03/15/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.307 ± 0.560 (1.14)**	pCi/L	03/22/22 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YGWC-24SA **Lab ID: 92587080016** Collected: 02/10/22 14:40 Received: 02/11/22 16:45 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	**0.0181 ± 0.0599 (0.152) C:89% T:NA**	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.828 ± 0.513 (0.988) C:78% T:84%**	pCi/L	03/15/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.846 ± 0.573 (1.14)**	pCi/L	03/22/22 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: AMA-DUP-1 **Lab ID: 92587080017** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 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	**0.0380 ± 0.0672 (0.151) C:94% T:NA**	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0252 ± 0.520 (1.19) C:74% T:81%**	pCi/L	03/15/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0380 ± 0.587 (1.34)**	pCi/L	03/22/22 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YGWC-36A **Lab ID: 92587080018** Collected: 02/11/22 11:19 Received: 02/11/22 16:45 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	**0.110 ± 0.113 (0.226) C:82% T:NA**	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.285 ± 0.511 (1.12) C:77% T:89%**	pCi/L	03/15/22 15:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.395 ± 0.624 (1.35)**	pCi/L	03/22/22 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YAMW-2 **Lab ID: 92587080019** Collected: 02/10/22 09:45 Received: 02/11/22 16:45 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	**-0.00134 ± 0.0863 (0.237) C:97% T:NA**	pCi/L	03/17/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.135 ± 0.470 (1.12) C:75% T:85%**	pCi/L	03/15/22 15:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000 ± 0.556 (1.36)**	pCi/L	03/22/22 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: YAMW-3 **Lab ID: 92587080020** Collected: 02/10/22 15:35 Received: 02/11/22 16:45 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	**0.609 ± 0.220 (0.222) C:103% T:NA**	pCi/L	03/17/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.379 ± 0.508 (1.09) C:77% T:87%**	pCi/L	03/15/22 15:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.988 ± 0.728 (1.31)**	pCi/L	03/22/22 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: AMA-EB-2 **Lab ID: 92587080021** Collected: 02/10/22 12:46 Received: 02/11/22 16:45 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	**-0.00805 ± 0.0688 (0.204) C:97% T:NA**	pCi/L	03/17/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.505 ± 0.551 (1.15) C:79% T:86%**	pCi/L	03/15/22 15:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.505 ± 0.620 (1.35)**	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: AMA-FB-1 **Lab ID: 92587080022** Collected: 02/10/22 15:02 Received: 02/11/22 16:45 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	**0.0556 ± 0.100 (0.228) C:96% T:NA**	pCi/L	03/17/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.847 ± 0.456 (0.828) C:78% T:86%**	pCi/L	03/15/22 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.903 ± 0.556 (1.06)**	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: AMA-FB-2 **Lab ID: 92587080023** Collected: 02/10/22 16:00 Received: 02/11/22 16:45 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	**0.00412 ± 0.0936 (0.251) C:95% T:NA**	pCi/L	03/17/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.303 ± 0.308 (0.782) C:78% T:86%**	pCi/L	03/15/22 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.00412 ± 0.402 (1.03)**	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: PZ-37D **Lab ID: 92587080024** Collected: 02/11/22 16:35 Received: 02/14/22 13:25 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	**0.728 ± 0.228 (0.164) C:96% T:NA**	pCi/L	03/08/22 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0872 ± 0.415 (0.945) C:85% T:88%**	pCi/L	03/07/22 18:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.815 ± 0.643 (1.11)**	pCi/L	03/21/22 17:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Sample: PZ-52D **Lab ID: 92587080025** Collected: 02/11/22 14:00 Received: 02/14/22 13:25 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	**0.708 ± 0.235 (0.211) C:91% T:NA**	pCi/L	03/08/22 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.807 ± 0.421 (0.710) C:88% T:89%**	pCi/L	03/07/22 18:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.52 ± 0.656 (0.921)**	pCi/L	03/21/22 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

QC Batch: 488843
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587080019, 92587080020, 92587080021, 92587080022, 92587080023

METHOD BLANK: 2364144 Matrix: Water
Associated Lab Samples: 92587080019, 92587080020, 92587080021, 92587080022, 92587080023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00836 ± 0.0708 (0.195) C:93% T:NA	pCi/L	03/17/22 09:25	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

QC Batch: 487660
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587080006, 92587080007, 92587080008, 92587080009, 92587080010, 92587080011, 92587080012, 92587080013, 92587080014, 92587080015, 92587080016, 92587080017, 92587080018

METHOD BLANK: 2358737
Matrix: Water
Associated Lab Samples: 92587080006, 92587080007, 92587080008, 92587080009, 92587080010, 92587080011, 92587080012, 92587080013, 92587080014, 92587080015, 92587080016, 92587080017, 92587080018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0164 ± 0.0604 (0.155) C:93% T:NA	pCi/L	03/21/22 12:32	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

QC Batch: 484773 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587080001, 92587080002, 92587080003, 92587080004, 92587080005

METHOD BLANK: 2344489 Matrix: Water
Associated Lab Samples: 92587080001, 92587080002, 92587080003, 92587080004, 92587080005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0146 ± 0.0739 (0.197) C:93% T:NA	pCi/L	02/28/22 08:20	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

QC Batch: 488360
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587080013, 92587080014, 92587080015, 92587080016, 92587080017, 92587080018, 92587080019, 92587080020, 92587080021, 92587080022, 92587080023

METHOD BLANK: 2362221
Matrix: Water
Associated Lab Samples: 92587080013, 92587080014, 92587080015, 92587080016, 92587080017, 92587080018, 92587080019, 92587080020, 92587080021, 92587080022, 92587080023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.179 ± 0.381 (0.881) C:76% T:93%	pCi/L	03/15/22 12:07	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

QC Batch: 488359
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587080006, 92587080007, 92587080008, 92587080009, 92587080010, 92587080011, 92587080012

METHOD BLANK: 2362220
Matrix: Water
Associated Lab Samples: 92587080006, 92587080007, 92587080008, 92587080009, 92587080010, 92587080011, 92587080012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0558 ± 0.266 (0.648) C:66% T:95%	pCi/L	03/14/22 16:43	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

QC Batch: 486611
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587080024, 92587080025

METHOD BLANK: 2353259 Matrix: Water
Associated Lab Samples: 92587080024, 92587080025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0325 ± 0.0552 (0.191) C:101% T:NA	pCi/L	03/08/22 08:21	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

QC Batch: 484772 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587080001, 92587080002, 92587080003, 92587080004, 92587080005

METHOD BLANK: 2344487 Matrix: Water
Associated Lab Samples: 92587080001, 92587080002, 92587080003, 92587080004, 92587080005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0606 ± 0.318 (0.753) C:83% T:82%	pCi/L	02/25/22 15:04	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

QC Batch: 486658
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587080024, 92587080025

METHOD BLANK: 2353494 Matrix: Water
Associated Lab Samples: 92587080024, 92587080025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.240 ± 0.292 (0.616) C:84% T:82%	pCi/L	03/07/22 15:13	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587080001	YGWC-49	EPA 9315	484773		
92587080002	YGWC-41	EPA 9315	484773		
92587080003	AMA-DUP-2	EPA 9315	484773		
92587080004	YGWC-43	EPA 9315	484773		
92587080005	AMA-EB-1	EPA 9315	484773		
92587080006	YAMW-5	EPA 9315	487660		
92587080007	PZ-37	EPA 9315	487660		
92587080008	AMA-DUP-4	EPA 9315	487660		
92587080009	PZ-51	EPA 9315	487660		
92587080010	YAMW-1	EPA 9315	487660		
92587080011	PZ-35	EPA 9315	487660		
92587080012	YAMW-4	EPA 9315	487660		
92587080013	YGWC-23S	EPA 9315	487660		
92587080014	YGWC-38	EPA 9315	487660		
92587080015	YGWC-42	EPA 9315	487660		
92587080016	YGWC-24SA	EPA 9315	487660		
92587080017	AMA-DUP-1	EPA 9315	487660		
92587080018	YGWC-36A	EPA 9315	487660		
92587080019	YAMW-2	EPA 9315	488843		
92587080020	YAMW-3	EPA 9315	488843		
92587080021	AMA-EB-2	EPA 9315	488843		
92587080022	AMA-FB-1	EPA 9315	488843		
92587080023	AMA-FB-2	EPA 9315	488843		
92587080024	PZ-37D	EPA 9315	486611		
92587080025	PZ-52D	EPA 9315	486611		
92587080001	YGWC-49	EPA 9320	484772		
92587080002	YGWC-41	EPA 9320	484772		
92587080003	AMA-DUP-2	EPA 9320	484772		
92587080004	YGWC-43	EPA 9320	484772		
92587080005	AMA-EB-1	EPA 9320	484772		
92587080006	YAMW-5	EPA 9320	488359		
92587080007	PZ-37	EPA 9320	488359		
92587080008	AMA-DUP-4	EPA 9320	488359		
92587080009	PZ-51	EPA 9320	488359		
92587080010	YAMW-1	EPA 9320	488359		
92587080011	PZ-35	EPA 9320	488359		
92587080012	YAMW-4	EPA 9320	488359		
92587080013	YGWC-23S	EPA 9320	488360		
92587080014	YGWC-38	EPA 9320	488360		
92587080015	YGWC-42	EPA 9320	488360		
92587080016	YGWC-24SA	EPA 9320	488360		
92587080017	AMA-DUP-1	EPA 9320	488360		
92587080018	YGWC-36A	EPA 9320	488360		
92587080019	YAMW-2	EPA 9320	488360		
92587080020	YAMW-3	EPA 9320	488360		
92587080021	AMA-EB-2	EPA 9320	488360		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA-R6 RAD
Pace Project No.: 92587080

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587080022	**AMA-FB-1**	EPA 9320	488360		
92587080023	**AMA-FB-2**	EPA 9320	488360		
92587080024	**PZ-37D**	EPA 9320	486658		
92587080025	**PZ-52D**	EPA 9320	486658		
92587080001	**YGWC-49**	Total Radium Calculation	487027		
92587080002	**YGWC-41**	Total Radium Calculation	487027		
92587080003	**AMA-DUP-2**	Total Radium Calculation	487027		
92587080004	**YGWC-43**	Total Radium Calculation	487027		
92587080005	**AMA-EB-1**	Total Radium Calculation	487027		
92587080006	**YAMW-5**	Total Radium Calculation	492139		
92587080007	**PZ-37**	Total Radium Calculation	492139		
92587080008	**AMA-DUP-4**	Total Radium Calculation	492139		
92587080009	**PZ-51**	Total Radium Calculation	492139		
92587080010	**YAMW-1**	Total Radium Calculation	492139		
92587080011	**PZ-35**	Total Radium Calculation	492139		
92587080012	**YAMW-4**	Total Radium Calculation	492139		
92587080013	**YGWC-23S**	Total Radium Calculation	492139		
92587080014	**YGWC-38**	Total Radium Calculation	492139		
92587080015	**YGWC-42**	Total Radium Calculation	492139		
92587080016	**YGWC-24SA**	Total Radium Calculation	492139		
92587080017	**AMA-DUP-1**	Total Radium Calculation	492139		
92587080018	**YGWC-36A**	Total Radium Calculation	492139		
92587080019	**YAMW-2**	Total Radium Calculation	492151		
92587080020	**YAMW-3**	Total Radium Calculation	492151		
92587080021	**AMA-EB-2**	Total Radium Calculation	492151		
92587080022	**AMA-FB-1**	Total Radium Calculation	492151		
92587080023	**AMA-FB-2**	Total Radium Calculation	492151		
92587080024	**PZ-37D**	Total Radium Calculation	491869		
92587080025	**PZ-52D**	Total Radium Calculation	491869		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

Sample Condition Upon Receipt

Client Name: GA Power **Project #:**

WO# : 92587090

92587090

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/22

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

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

Thermometer: ☑ IR Gun ID: 083 ☑ Wet ☐ Blue ☐ None **Type of Ice:**

Cooler Temp: 2.3 **Correction Factor:** Add/Subtract (°C) +0.2

Cooler Temp Corrected (°C): 2.5

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

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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

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

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

Project # **WO# : 92587090**

PM: NMG Due Date: 02/23/22

CLIENT: GA-GA Power

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)	AG3A(DG3A)-250 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)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2					
2		1	1			1																		2					
3		1	1			1																		2					
4		1	1			1																		2					
5		1	1			1																		2					
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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : | Of |

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: | State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~YGWC-23S~~	WT	G	~~2/1/22~~	~~1030~~	–	–		5	2		3						X	X	X	X		pH:
2	~~YGWC-24SA~~	WT	G				–		5	2		3						X	X	X	X		pH:
3	~~AMA-DUP-1~~	WT	G			–	–		5	2		3						X	X	X	X		pH:
4	~~YGWC-36A~~	WT	G						5	2		3						X	X	X	X		pH:
5	YGWC-49	WT	G	2/8/22	1800	–	–		5	2		3						X	X	X	X		pH: 5.79
6	~~YGWC-38~~	WT	G			–	–		5	2		3						X	X	X	X		pH:
7	YGWC-41	WT	G	2/8/22	1620	–	–		5	2		3						X	X	X	X		pH: 5.07
8	AMA-DUP-2	WT	G	2/8/22	—	–	–		5	2		3						X	X	X	X		pH: —
9	~~YGWC-42~~	WT	G			–	–		5	2		3						X	X	X	X		pH:
10	~~YGWC-43~~	WT	G	~~2/1/22~~	~~1000~~ (R2)		–		5	2		3						X	X	X	X		pH:
11	YAMW-2	WT	G			–	–		5	2		3						X	X	X	X		pH:
12	~~YAMW-3~~	WT	G			–	–		5	2		3						X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2/9/22

TEMP In C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : | Of

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency:

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWC-23S~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:
2	~~YGWC-24SA~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:
3	~~AMA-DUP-1~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:
4	~~YGWC-36A~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:
5	~~YGWC-49~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:
6	~~YGWC-38~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:
7	~~YGWC-4T~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:
8	~~AMA-DUP-2~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:
9	~~YGWC-42~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:
10	YGWC-43	WT	G	2/8/22	10:20	–	–		5	2		3							X	X	X	X		pH: 5.82
11	~~YAMW-2~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:
12	~~YAMW-3~~	WT	G			–	–		5	2		3							~~X~~	~~X~~	~~X~~	~~X~~		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/9/22	0827		2/9/22	0827	
App III Metals: Boron 6020B, Ca 6010D		2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware — DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	
Pace Profile #:	10840

Page : 1 Of 1

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	AMA-EB-1	WT	G	2/9/22	1536	–	–		5	2		3							X	X	X	X	
2	~~AMA-EB-2~~	WT	G			–	–		5	2		3							X	X	X	X	
3	~~AMA-FB-1~~	WT	G			–	–		5	2		3							X	X	X	X	
4	~~AMA-FB-2~~	WT	G						5	2		3							X	X	X	X	
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D	Arcadis	2/9/22	0918		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim LaDuzynski

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.08**	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: JRE 2/12/22

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

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

Thermometer: ☐ IR Gun ID: 214 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) +.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.2

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

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☐ Yes	☑ No	☐ N/A	5. missing ~~☐~~ YA MW-4 2/10/22 @1113
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YAMW-4	WT	G	2/10/22	1130	--	--		5	2		3							X	X	X	X		pH: 5.22
2	~~YAMW-5~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
3	PZ-37	WT	G	2/10/22	1305	--	--		5	2		3							X	X	X	X		pH: 4.93
4	AMA-DUP-4	WT	G	2/10/22	—	--	--		5	2		3							X	X	X	X		pH: —
5	~~PZ-37D~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
6	PZ-51	WT	G	2/10/22	1810	--	--		5	2		3							X	X	X	X		pH: 11.06
7	~~PZ-52D~~	WT	G						5	2		3							X	X	X	X		pH:
8	~~YAMW-1~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
9	~~PZ-35~~	WT	G			--	--		5	2		3							X	X	X	X		pH:
10						--	--																	
11						--	--																	
12						--	--																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Kharill Carson	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Kharill Carson /Arcadis	2/11/22	1645		2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: DATE Signed: 2/11/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 4

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Requested Analysis Filtered (Y/N)					
1	~~YAMW-4~~	~~WT~~	~~G~~			--	--		~~5~~	2		3							X	X	X	X	
2	YAMW-5	~~WT~~	G			--	--		~~5~~	2		3							X	X	X	X	
3	PZ-37	~~WT~~	G			--	--		5	2		3							X	X	X	X	
4	~~AMA-DUP-4~~	~~WT~~	G			--	--		~~5~~	2		3							X	X	X	X	
5	~~PZ-37D~~	~~WT~~	G			--	--		~~5~~	2		3							X	X	X	X	
6	~~PZ-51~~	~~WT~~	G			--	--		~~5~~	2		3							X	X	X	X	
7	~~PZ-52D~~	~~WT~~	G			--	--		~~5~~	2		3							X	X	X	X	
8	YAMW-1	WT	G	2/10/22	1155	--	--		5	2		3							X	X	X	X	pH: 5.80
9	PZ-35	WT	G	2/10/22	1437	--	--		5	2		3							X	X	X	X	pH: 5.35
10						--	--																pH:
11						--	--																pH:
12						--	--																pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1745	Whalt Carson Arcadis	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Whalt Carson	2/11/22	1645	Joann	2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Mark Clevenger					
SIGNATURE of SAMPLER:		DATE Signed: 2/11/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: | State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YAMW-4	WT	G	2/10/22	1200	--	--		5	2		3						X	X	X	X			pH: 6.10
2	~~YAMW-5~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
3	~~PZ-37~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
4	~~AMA-DUP-4~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
5	~~PZ-37D~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
6	~~PZ-51~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
7	~~PZ-52D~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
8	YAMW-1	WT	G			--	--		5	2		3						X	X	X	X			pH:
9	~~PZ-35~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
10						--	--																	
11						--	--																	
12						--	--																	

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/11/22	1445	Khalil Carson	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Khalil Carson	2/11/22	1645	[illegible]	2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/10/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

~~CHAIN-OF-CUSTODY / Analytical Request Document~~

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Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	pH
1	YGWC-23S	WT	G	2/10/22	1510	--	--		5	2		3						X	X	X	X			5.51
2	~~YGWC-24SA~~	WT	G			--	--		5	2		3						X	X	X	X			
3	~~AMA-DUP-1~~	WT	G			--	--		5	2		3						X	X	X	X			
4	~~YGWC-36A~~	WT	G			--	--		5	2		3						X	X	X	X			
5	~~YGWC-49~~	WT	G			--	--		5	2		3						X	X	X	X			
6	YGWC-38	WT	G	2/10/22	0950	--	--		5	2		3						X	X	X	X			4.85
7	~~YGWC-41~~	WT	G			--	--		5	2		3						X	X	X	X			
8	~~AMA-DUP-2~~	WT	G			--	--		5	2		3						X	X	X	X			
9	YGWC-42	WT	G	2/10/22	1635	--	--		5	2		3						X	X	X	X			5.57
10	~~YGWC-43~~	WT	G			--	--		5	2		3						X	X	X	X			
11	~~YAMW-2~~	WT	G			--	--		5	2		3						X	X	X	X			
12	~~YAMW-3~~	WT	G			--	--		5	2		3						X	X	X	X			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Khalil Carter	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Khalil Carter/Arcadis	2/11/22	1645		2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/11/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 3 5

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Requested Analysis Filtered (Y/N)						
1	~~YGWC-23S~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
2	YGWC-24SA	WT	G	02/10/22	1440	--	--		5	2		3						X	X	X	X			pH: 4.66
3	AMA-DUP-1	WT	G	02/10/22		--	--		5	2		3						X	X	X	X			pH:
4	~~YGWC-36A~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
5	~~YGWC-49~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
6	~~YGWC-38~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
7	~~YGWC-41~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
8	~~AMA-DUP-2~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
9	~~YGWC-42~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
10	~~YGWC-43~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
11	~~YAMW-2~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
12	~~YAMW-3~~	WT	G			--	--		5	2		3						X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter Arcadis	2/11/21	1645		2/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER:

DATE Signed: 02/10/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A – Required Client Information:	Section B – Required Project Information:	Section C – Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:
		Address:
Email To:	Purchase Order #:	Pace Quote:
Phone: Fax	Project Name: Plant Yates AMA-R6	Pace Project Manager: Nicole D'Oleo
Requested Due Date:	Project Number:	Pace Profile #: 10840

Regulatory Agency:

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWC-23S~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
2	~~YGWC-24SA~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
3	~~AMA-DUP-1~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
4	YGWC-36A	WT	G	2/11/22	1119	--	--		5	2		3							X	X	X	X			pH: 5.58
5	~~YGWC-49~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
6	~~YGWC-38~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
7	~~YGWC-41~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
8	~~AMA-DUP-2~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
9	~~YGWC-42~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
10	~~YGWC-43~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
11	YAMW-2	WT	G	2/10/22	0945	--	--		5	2		3							X	X	X	X			pH: 5.64
12	~~YAMW-3~~	WT	G	2/10/22	1535	--	--		5	2		3							X	X	X	X			pH: 5.93

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica deWare /Arcadis	2/11/22	1445	Michael Carson/Arcadis	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D	Michael Carson	2/11/22	1645	Joan Rose	2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware DATE Signed: 2/10/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Page: 3 of 4

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~AMA-EB-1~~	~~WT~~	~~G~~			–	–		5	2		3						X	X	X	X		
2	AMA-EB-2	WT	G	2/10/22	1246	–	–		5	2		3						X	X	X	X		MC
3	AMA-FB-1	WT	G	2/10/22	1502	–	–		5	2		3						X	X	X	X		KL
4	AMA-FB-2	WT	G	2/10/22	1600	–	–		5	2		3						X	X	X	X		MC
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Rhett Carson	2/11/22	1448	
App III Metals: Boron 6020B, Ca 6010D	Rhett Carson	2/11/22	1644		2/11/22	1645	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Mark Chester			
SIGNATURE of SAMPLER:		DATE Signed:	2/11/22	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 09/14/22

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: 0.7 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 0.8

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

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	YAMW-4	WT	G			--	--		5	2		3						X	X	X	X		pH:
2	YAMW-5	WT	G			--	--		5	2		3						X	X	X	X		pH:
3	PZ-37	WT	G			--	--		5	2		3						X	X	X	X		pH:
4	AMA-DUP-4	WT	G			--	--		5	2		3						X	X	X	X		pH:
5	PZ-37D	WT	G	2/11/22	1635	--	--		5	2		3						X	X	X	X		pH: 7.84
6	PZ-51	WT	G			--	--		5	2		3						X	X	X	X		pH:
7	PZ-52D	WT	G			--	--		5	2		3						X	X	X	X		pH:
8	YAMW-1	WT	G			--	--		5	2		3						X	X	X	X		pH:
9	PZ-35	WT	G			--	--		5	2		3						X	X	X	X		pH:
10						--	--																
11						--	--																
12						--	--																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/14/22	1325	Charles Parker	2/14/22	1324	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware DATE Signed: 2/11/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~YAMW-4~~	WT	G			--	--		~~5~~	~~2~~		~~3~~							X	X	X	X	pH:
2	~~YAMW-5~~	WT	G			--	--		~~5~~	~~2~~		~~3~~							X	X	X	X	pH:
3	~~PZ-37~~	WT	G			--	--		~~5~~	~~2~~		~~3~~							X	X	X	X	pH:
4	~~AMA-DUP-4~~	WT	G			--	--		~~5~~	~~2~~		~~3~~							X	X	X	X	pH:
5	~~PZ-37D~~	WT	G			--	--		5	2		3							X	X	X	X	pH:
6	~~PZ-51~~	WT	G			--	--		~~5~~	2		3							X	X	X	X	pH:
7	PZ-52D	WT	G	2/11/22	1400	--	--		5	2		3							X	X	X	X	pH: 6.40
8	~~YAMW-1~~	WT	G			--	--		~~5~~	~~2~~		~~3~~							X	X	X	X	pH:
9	PZ-35	WT	G			--	--		~~5~~	~~2~~		~~6~~							X	X	X	X	pH:
10						--	--																
11						--	--																
12						--	--																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1314	/Arcadis	2/11/22	1314	
App III Metals: Boron 6020B, Ca 6010D		2/14/22	1325		2/11/22	1325	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapczynski

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2/11/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Georgia Power Co. – Plant Yates

Data Review Report

Radium Analyses

SDG #92587081

Analyses Performed By:
Pace Analytical Services – Greensburg, Pennsylvania

Report #45262R
Review Level: Tier II
Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587081 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
YGWA-39	92587081001	Water	2/8/2022		X		
YGWA-40	92587081002	Water	2/8/2022		X		
YGWA-47	92587081003	Water	2/8/2022		X		
GWA-2	92587081004	Water	2/8/2022		X		
UP-DUP-1	92587081005	Water	2/8/2022	GWA-2	X		
YGWA-1I	92587081006	Water	2/9/2022		X		
YGWA-1D	92587081007	Water	2/9/2022		X		
YGWA-2I	92587081008	Water	2/9/2022		X		
YGWA-3I	92587081009	Water	2/9/2022		X		
YGWA-3D	92587081010	Water	2/9/2022		X		
UP-EB-1	92587081011	Water	2/9/2022		X		
UP-FB-1	92587081012	Water	2/9/2022		X		
YGWA-17S	92587081013	Water	2/9/2022		X		
YGWA-18S	92587081014	Water	2/9/2022		X		
YGWA-18I	92587081015	Water	2/9/2022		X		
YGWA-20S	92587081016	Water	2/9/2022		X		
YGWA-21I	92587081017	Water	2/9/2022		X		
YGWA-5I	92587081018	Water	2/10/2022		X		
UP-DUP-3	92587081019	Water	2/10/2022	YGWA-5I	X		

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-14S	92587081020	Water	2/10/2022		X		
UP-DUP-2	92587081021	Water	2/10/2022	YGWA-14S	X		
YGWA-30I	92587081022	Water	2/11/2022		X		
YGWA-4I	92587081023	Water	2/11/2022		X		
YGWA-5D	92587081024	Water	2/10/2022		X		
UP-EB-2	92587081025	Water	2/10/2022		X		
UP-FB-2	92587081026	Water	2/10/2022		X		

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 9315 and 9320. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

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

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 (MCD).

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

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

Radium-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

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

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

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

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

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

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

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

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

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

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

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

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

The laboratory duplicate analysis performed on sample location YGWA-39 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

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
GWA-2 / UP-DUP-1	Radium-226	0.151 ± 0.105	0.138 ± 0.115	AC
	Radium-228	0.311 ± 0.281	0.617 ± 0.346	
	Total Radium	0.462 ± 0.386	0.755 ± 0.461	
YGWA-5I / UP-DUP-3	Radium-226	0.0387 ± 0.0686	0.183 ± 0.111	AC
	Radium-228	0.336 ± 0.397	-0.150 ± 0.507	
	Total Radium	0.375 ± 0.466	0.183 ± 0.618	
YGWA-14S / UP-DUP-2	Radium-226	-0.0197 ± 0.0632	0.0406 ± 0.0923	AC
	Radium-228	-0.199 ± 0.449	-0.195 ± 0.313	
	Total Radium	0.000 ± 0.512	0.0406 ± 0.405	

Note:
AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWA-5I and field duplicate sample UP-DUP-3 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

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 should be considered non-detect as follows:

- YGWA-39, YGWA-1D, and YGWA-4I – Radium-228
- GWA-2, UP-DUP-1, YGWA-18S, YGWA-18I, YGWA-20S, YGWA-5I, YGWA-14S, UP-DUP-2, and YGWA-30I – Radium-226, Radium-228, and total Radium
- YGWA-40, YGWA-47, YGWA-1I, YGWA-2I, YGWA-17S, and UP-DUP-3 – Radium-228 and total Radium

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

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

Notes:
%R Percent recovery
RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: April 26, 2022

PEER REVIEW: Dennis Capria

DATE: April 27, 2022

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WT	G	2/8/22	1455	-	-		5	2		3							X	X	X	X				pH: 5.78
2	YGWA-40	WT	G	2/8/22	1522	-	-		5	2		3							X	X	X	X				pH: 5.26
3	~~YGWA-11~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X				pH:
4	~~YGWA-1D~~	WT	G			-	-		5	2		3							X	X	X	X				pH:
5	~~YGWA-2I~~	WT	G			-	-		5	2		3							X	X	X	X				pH:
6	~~YGWA-3I~~	WT	G			-	-		5	2		3							X	X	X	X				pH:
7	~~YGWA-3D~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X				pH:
8	~~YGWA-14S~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X				pH:
9	~~UP-DUP-2~~	WT	G			-	-		5	2		3							X	X	X	X				pH:
10	~~YGWA-30I~~	WT	G			-	-		5	2		3							X	X	X	X				pH:
11	~~UP-EB-1~~	WT	G			-	-		5	2		3							X	X	X	X				
12	~~UP-FB-1~~	WT	G			-	-		5	2		3							X	X	X	X				

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lipszynski

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	pH
1	YGWA-47	WT	G	2/8/22	1140	–	–		5	2		3						X	X	X	X				pH 5.to
2	~~GWA-2~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X	X			pH:
3	~~UP-DUP-1~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X	X			pH:
4	~~YGWA-41~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
5	~~YGWA-51~~	WT	G			–	–		~~3~~	~~2~~		~~3~~						X	X	X	-				pH:
6	~~UP-DUP-3~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
7	~~YGWA-50~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
8	~~YGWA-17S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
9	~~UGWA-18S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
10	~~YGWA-18I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
11	~~YGWA-20S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
12	~~YGWA-21I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se); 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825
/Arcadis	2/9/22	1018	/	2/9	1018

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesh

SIGNATURE of SAMPLER:

DATE Signed: 2/9/22

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Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	~~YGWA-4T~~	WT	G	[illegible]	[illegible]	[illegible]	[illegible]		5	2		3							X	X	X	X			pH:
2	GWA-2	WT	G	[illegible]	1045	12-08	11:50		5	2		3							X	X	X	X	X		pH: 5.83
3	UP-DUP-1	WT	G	12-08	[illegible]	"	"		5	2		3							X	X	X	X	X		pH: [illegible]
4	~~YGWA-11~~	WT	G			"	"		5	2		3							X	X	X	X			pH:
5	~~YGWA-5I~~	WT	G			"	"		5	2		3							X	X	X	'			pH:
6	~~UP-DUP-3~~	WT	G			"	"		5	2		3							X	X	X	X			pH:
7	~~YGWA-5D~~	WT	G			"	"		5	2		3							X	X	X	X			pH:
8	~~YGWA-17S~~	WT	G			"	"		5	2		3							X	X	X	X			pH:
9	UGWA-18S	WT	G			"	"		5	2		3							X	X	X	X			pH:
10	YGWA-18I	WT	G			"	"		5	2		3							X	X	X	X			pH:
11	~~YGWA-20S~~	WT	G			"	"		5	2		3							X	X	X	X			pH:
12	~~YGWA-21I~~	WT	G			"	"		5	2		3							X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	2/9/22	0840	[signature]	2/9/22	0840	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/9/22	1018	[signature]	2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Khalil Carter					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 02-09-22				

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Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	~~YGWA-39~~	WT	G						5	2		3							X	X	X	X			
2	~~YGWA-40~~	WT	G						5	2		3							X	X	X	X			
3	YGWA-1I	WT	G	2/9/22	1345	--	--		5	2		3							X	X	X	X			pH:
4	YGWA-1D	WT	G	2/9/22	1445	--	--		5	2		3							X	X	X	X			pH: 6.24
5	YGWA-2I	WT	G	2/9/22	1735	--	--		5	2		3							X	X	X	X			pH: 7.12
6	YGWA-3I	WT	G	2/9/22	1135	--	--		5	2		3							X	X	X	X			pH: 5.89
7	YGWA-3D	WT	G	2/9/22	1020	--	--		5	2		3							X	X	X	X			pH: 7.66
8	~~YGWA-14S~~	WT	G			--	--		5	2		3							X	X	X	X			pH: 7.07
9	~~UP-DUP-2~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
10	~~YGWA-30I~~	WT	G			--	--		6	2		3							X	X	X	X			pH:
11	~~UP-EB-1~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
12	~~UP-FB-1~~	WT	G			--	--		3	2		3							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/10/22	1435		2/10/22	1433	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	/Arcadis	2/10/22	1700		2/10/22	1700	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: DATE Signed: 2/10/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

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1	YGWA-6S	WT	G						5	2		3						X	X	X	X			pH:
2	YGWA-4D	WT	G						5	2		3						X	X	X	X			pH:
3	YGWA-1I	WT	G						5	2		3						X	X	X	X			pH:
4	YGWA-1D	WT	G			–	–		5	2		3						X	X	X	X			pH:
5	YGWA-2I	WT	G						5	2		3						X	X	X	X			pH:
6	YGWA-3I	WT	G						5	2		3						X	X	X	X			pH:
7	YGWA-3D	WT	G						5	2		3						X	X	X	X			pH:
8	YGWA-14S	WT	G						5	2		3						X	X	X	X			pH:
9	UP-DUP-2	WT	G						5	2		3						X	X	X	X			pH:
10	YGWA-30I	WT	G			–	–		5	2		3						X	X	X	X			pH:
11	UP-EB-1	WT	G	2/9/22	1304	–	–		5	2		3						X	X	X	X			
12	UP-FB-1	WT	G	2/9/22	1047	–	–		5	2		3						X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/10/22	1435		2/10/22	1435	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	2/10/22	1700		2/10	1700	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To:
Phone: Fax
Requested Due Date:

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~YGWA-47~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~ 25
2	~~GWA-2~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~ 25
3	~~UP-DUP-1~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~ 25
4	~~YGWA-4I~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~ 25
5	~~MGWA-5I~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~ 25
6	~~UP-DUP-3~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~ 25
7	~~YGWA-5D~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~ 25
8	YGWA-17S	WT	G	2/9/22	1020	–	–		5	2		3						Y	X	X	X	X		pH: 5.53
9	UGWA-18S	WT	G	2/9/22	1224	–	–		5	2		3						Y	X	X	X	X		pH: 5.28
10	YGWA-18I	WT	G	2/9/22	1431	–	–		5	2		3						Y	X	X	X	X		pH: 5.98
11	YGWA-20S	WT	G	2/9/22	1619	–	–		5	2		3						Y	X	X	X	X		pH: 5.91
12	YGWA-21I	WT	G	2/9/22	1740	–	–		5	2		3						Y	X	X	X	X		pH: 6.84

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/10/22	1435	/ Arcadis	2/10/22	1435	
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Ni, V	/ Arcadis	2/10/22	1700		2/10	1700	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 4

Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To:
Phone: Fax
Requested Due Date:

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I /II (gypsum only)	Residual Chlorine (Y/N)
1	YGWA-4T	WT	G						5	2		3						Y	X	X	X	X		pH:
2	GWA-2	WT	G			-	-		5	2		3						Y	X	X	X	X	X	pH:
3	UP-DUP-1	WT	G			-			5	2		3						Y	X	X	X	X	X	pH:
4	YGWA-4I	WT	G			-	-		5	2		3						Y	X	X	X	X		pH:
5	YGWA-5I	WT	G	2/10/22	1727	-	-		5	2		3						Y	X	X	X	-		pH: 5.14
6	UP-DUP-3	WT	G	2/10/22	-	-	-		5	2		3						Y	X	X	X	X		pH:
7	YGWA-5D	WT	G						5	2		3						Y	X	X	X	X		pH:
8	YGWA-17S	WT	G						5	2		3						Y	X	X	X	X		pH:
9	UGWA-18S	WT	G						5	2		3						Y	X	X	X	X		pH:
10	YGWA-18I	WT	G			-	-		5	2		3						Y	X	X	X	X		pH:
11	YGWA-20S	WT	G			-	-		5	2		3						Y	X	X	X	X		pH:
12	YGWA-21I	WT	G			-	-		5	2		3						Y	X	X	X	X		pH:

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/11/22	1445	Khalil Carson/Arcadis	2/11/22	1445
Khalil Carson	2/11/22	1645		2/11/22	1695

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesk
SIGNATURE of SAMPLER:
DATE Signed: 2/11/22

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WT	G			–	–		5	2		3							X	X	X	X			pH
2	YGWA-40	WT	G			–	–		5	2		3							X	X	X	X			pH
3	YGWA-1I	WT	G			–	–		5	2		3							X	X	X	X			pH
4	YGWA-1D	WT	G			–	–		5	2		3							X	X	X	X			pH
5	YGWA-2I	WT	G			–	–		5	2		3							X	X	X	X			pH
6	YGWA-3I	WT	G			–	–		5	2		3							X	X	X	X			pH
7	YGWA-3D	WT	G			–	–		5	2		3							X	X	X	X			pH
8	YGWA-14S	WT	G	02/10/22	1620	–	–		5	2		3							X	X	X	X			pH 4.50
9	UP-DUP-2	WT	G	02/10/22		–	–		5	2		3							X	X	X	X			pH
10	YGWA-30I	WT	G	02/11/22	0920	–	–		5	2		3							X	X	X	X			pH 5.59
11	UP-EB-1	WT	G			–	–		5	2		3							X	X	X	X			
12	UP-FB-1	WT	G			–	–		5	2		3							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson /Arcadis	02/11/22	1645	[illegible]	2/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 02/10/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 4 Of 4

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (gpysum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G			–	–		5	2		3							X	X	X	X				pH:
2	GWA-2	WT	G			–	–		5	2		3							X	X	X	X		X		pH:
3	UP-DUP-1	WT	G			–	–		5	2		3							X	X	X	X		X		pH:
4	YGWA-4I	WT	G	2/11	1040	–	–		5	2		3							X	X	X	X				pH: 5.95
5	YGWA-5I	WT	G			–	–		5	2		3							X	X	X					pH:
6	UP-DUP-3	WT	G			–	–		5	2		3							X	X	X	X				pH:
7	YGWA-5D	WT	G	2/10	1746	–	–		5	2		3							X	X	X	X				pH: 6.99
8	YGWA-17S	WT	G			–	–		5	2		3							X	X	X	X				pH:
9	UGWA-18S	WT	G			–	–		5	2		3							X	X	X	X				pH:
10	YGWA-18I	WT	G			–	–		5	2		3							X	X	X	X				pH:
11	YGWA-20S	WT	G			–	–		5	2		3							X	X	X	X				pH:
12	YGWA-21I	WT	G			–	–		5	2		3							X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson Arcadis	02-11-45	1645	Ocann Pace	4/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature] DATE Signed: 02/10/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 5 Of 5

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	UP-EB-2	WT	G	[illegible]	1140	–	–		5	2		3							X	X	X	X			pH
2	UP-FB-2	WT	G			–	–		5	2		3							X	X	X	X			pH
3						–	–																		
4						–	–																		
5						–	–																		
6						–	–																		
7						–	–																		
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	04/11/22	1645	Joann Faull	4/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 4 Of 4

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
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Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

SAMPLE ID
One Character per box. (A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~UP-EB-2~~	~~WT~~	~~G~~						5	2		3							X	X	X	X		
2	UP-FB-2	WT	G	2/10/2013		–	–		5	2		3							X	X	X	X			pH:
3						–	–																		pH:
4						–	–																		
5						–	–																		
6						–	–																		
7						–	–																		
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Khalil Carson	2/11/22	1445
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Khalil Carson	2/11/22	1645		2/11/22	1645
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)						

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed: 2/11/22

SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587081	No qualifiers assigned						

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

April 11, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. 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,

Tyler Forney for
Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Becky Steever, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587081001	**YGWA-39**	Water	02/08/22 14:55	02/09/22 10:18
92587081002	**YGWA-40**	Water	02/08/22 13:22	02/09/22 10:18
92587081003	**YGWA-47**	Water	02/08/22 11:40	02/09/22 10:18
92587081004	**GWA-2**	Water	02/08/22 11:50	02/09/22 10:18
92587081005	**UP-DUP-1**	Water	02/08/22 00:00	02/09/22 10:18
92587081006	**YGWA-1I**	Water	02/09/22 13:45	02/10/22 17:00
92587081007	**YGWA-1D**	Water	02/09/22 14:45	02/10/22 17:00
92587081008	**YGWA-2I**	Water	02/09/22 17:35	02/10/22 17:00
92587081009	**YGWA-3I**	Water	02/09/22 11:35	02/10/22 17:00
92587081010	**YGWA-3D**	Water	02/09/22 10:20	02/10/22 17:00
92587081011	**UP-EB-1**	Water	02/09/22 13:06	02/10/22 17:00
92587081012	**UP-FB-1**	Water	02/09/22 10:47	02/10/22 17:00
92587081013	**YGWA-17S**	Water	02/09/22 10:20	02/10/22 17:00
92587081014	**YGWA-18S**	Water	02/09/22 12:24	02/10/22 17:00
92587081015	**YGWA-18I**	Water	02/09/22 14:31	02/10/22 17:00
92587081016	**YGWA-20S**	Water	02/09/22 16:19	02/10/22 17:00
92587081017	**YGWA-21I**	Water	02/09/22 17:40	02/10/22 17:00
92587081018	**YGWA-5I**	Water	02/10/22 17:27	02/11/22 16:45
92587081019	**UP-DUP-3**	Water	02/10/22 00:00	02/11/22 16:45
92587081020	**YGWA-14S**	Water	02/10/22 16:20	02/11/22 16:45
92587081021	**UP-DUP-2**	Water	02/10/22 00:00	02/11/22 16:45
92587081022	**YGWA-30I**	Water	02/10/22 09:20	02/11/22 16:45
92587081023	**YGWA-4I**	Water	02/11/22 10:40	02/11/22 16:45
92587081024	**YGWA-5D**	Water	02/10/22 17:46	02/11/22 16:45
92587081025	**UP-EB-2**	Water	02/10/22 11:40	02/11/22 16:45
92587081026	**UP-FB-2**	Water	02/10/22 17:13	02/11/22 16:45

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587081001	**YGWA-39**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081002	**YGWA-40**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081003	**YGWA-47**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081004	**GWA-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081005	**UP-DUP-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081006	**YGWA-1I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081007	**YGWA-1D**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081008	**YGWA-2I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081009	**YGWA-3I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081010	**YGWA-3D**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081011	**UP-EB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081012	**UP-FB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081013	**YGWA-17S**	EPA 9315	JC2	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081014	**YGWA-18S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081015	**YGWA-18I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081016	**YGWA-20S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081017	**YGWA-21I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081018	**YGWA-5I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081019	**UP-DUP-3**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081020	**YGWA-14S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081021	**UP-DUP-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081022	**YGWA-30I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081023	**YGWA-4I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081024	**YGWA-5D**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081025	**UP-EB-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA
92587081026	**UP-FB-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081001	**YGWA-39**					
EPA 9315	Radium-226	0.621 ± 0.193 (0.145) C:97% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.213 ± 0.292 (0.626) C:86% T:87%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.834 ± 0.485 (0.771)	pCi/L		03/14/22 21:59	
92587081002	**YGWA-40**					
EPA 9315	Radium-226	0.390 ± 0.164 (0.197) C:87% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.144 ± 0.283 (0.623) C:84% T:90%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.534 ± 0.447 (0.820)	pCi/L		03/14/22 21:59	
92587081003	**YGWA-47**					
EPA 9315	Radium-226	0.241 ± 0.130 (0.183) C:91% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.159 ± 0.245 (0.528) C:84% T:90%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.400 ± 0.375 (0.711)	pCi/L		03/14/22 21:59	
92587081004	**GWA-2**					
EPA 9315	Radium-226	0.151 ± 0.105 (0.166) C:89% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.311 ± 0.281 (0.568) C:87% T:90%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.462 ± 0.386 (0.734)	pCi/L		03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081005	**UP-DUP-1**					
EPA 9315	Radium-226	0.138 ± 0.115 (0.208) C:75% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.617 ± 0.346 (0.625) C:86% T:88%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	0.755 ± 0.461 (0.833)	pCi/L		03/14/22 21:59	
92587081006	**YGWA-1I**					
EPA 9315	Radium-226	0.211 ± 0.123 (0.190) C:95% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.211 ± 0.575 (1.28) C:78% T:88%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	0.422 ± 0.698 (1.47)	pCi/L		03/14/22 21:59	
92587081007	**YGWA-1D**					
EPA 9315	Radium-226	0.294 ± 0.135 (0.159) C:93% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.893 ± 0.529 (0.973) C:78% T:89%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	1.19 ± 0.664 (1.13)	pCi/L		03/14/22 21:59	
92587081008	**YGWA-2I**					
EPA 9315	Radium-226	0.205 ± 0.114 (0.150) C:91% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.689 ± 0.535 (1.05) C:77% T:90%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	0.894 ± 0.649 (1.20)	pCi/L		03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081009	**YGWA-3I**					
EPA 9315	Radium-226	0.817 ± 0.240 (0.170) C:83% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	1.09 ± 0.451 (0.731) C:81% T:89%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	1.91 ± 0.691 (0.901)	pCi/L		03/14/22 21:59	
92587081010	**YGWA-3D**					
EPA 9315	Radium-226	1.41 ± 0.334 (0.200) C:96% T:NA	pCi/L		03/14/22 08:18	
EPA 9320	Radium-228	1.87 ± 0.560 (0.704) C:82% T:90%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	3.28 ± 0.894 (0.904)	pCi/L		03/14/22 21:59	
92587081011	**UP-EB-1**					
EPA 9315	Radium-226	0.0487 ± 0.0838 (0.189) C:97% T:NA	pCi/L		03/14/22 08:18	
EPA 9320	Radium-228	0.387 ± 0.291 (0.568) C:83% T:97%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	0.436 ± 0.375 (0.757)	pCi/L		03/14/22 21:59	
92587081012	**UP-FB-1**					
EPA 9315	Radium-226	0.0259 ± 0.0622 (0.149) C:95% T:NA	pCi/L		03/14/22 08:18	
EPA 9320	Radium-228	0.546 ± 0.343 (0.645) C:81% T:93%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	0.572 ± 0.405 (0.794)	pCi/L		03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081013	**YGWA-17S**					
EPA 9315	Radium-226	0.131 ± 0.0871 (0.122) C:95% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	0.00169 ± 0.325 (0.756) C:78% T:89%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	0.133 ± 0.412 (0.878)	pCi/L		03/14/22 21:59	
92587081014	**YGWA-18S**					
EPA 9315	Radium-226	0.0618 ± 0.0753 (0.152) C:93% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	-0.0652 ± 0.340 (0.796) C:81% T:91%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	0.0618 ± 0.415 (0.948)	pCi/L		03/14/22 21:59	
92587081015	**YGWA-18I**					
EPA 9315	Radium-226	0.107 ± 0.0873 (0.149) C:94% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	0.464 ± 0.334 (0.645) C:76% T:92%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	0.571 ± 0.421 (0.794)	pCi/L		03/14/22 21:59	
92587081016	**YGWA-20S**					
EPA 9315	Radium-226	0.0382 ± 0.0564 (0.120) C:92% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	0.466 ± 0.326 (0.625) C:78% T:93%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	0.504 ± 0.382 (0.745)	pCi/L		03/14/22 21:59	

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081017	**YGWA-21I**					
EPA 9315	Radium-226	0.790 ± 0.237 (0.195) C:86% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	1.15 ± 0.478 (0.782) C:81% T:88%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	1.94 ± 0.715 (0.977)	pCi/L		03/14/22 21:59	
92587081018	**YGWA-5I**					
EPA 9315	Radium-226	0.0387 ± 0.0686 (0.155) C:92% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.336 ± 0.397 (0.841) C:85% T:89%	pCi/L		03/04/22 12:18	
Total Radium Calculation	Total Radium	0.375 ± 0.466 (0.996)	pCi/L		03/21/22 15:36	
92587081019	**UP-DUP-3**					
EPA 9315	Radium-226	0.183 ± 0.111 (0.169) C:95% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	-0.150 ± 0.507 (1.19) C:69% T:82%	pCi/L		03/04/22 12:18	
Total Radium Calculation	Total Radium	0.183 ± 0.618 (1.36)	pCi/L		03/21/22 15:36	
92587081020	**YGWA-14S**					
EPA 9315	Radium-226	-0.0197 ± 0.0632 (0.190) C:92% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	-0.199 ± 0.449 (1.06) C:75% T:89%	pCi/L		03/04/22 12:18	
Total Radium Calculation	Total Radium	0.000 ± 0.512 (1.25)	pCi/L		03/21/22 15:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081021	**UP-DUP-2**					
EPA 9315	Radium-226	0.0406 ± 0.0923 (0.219) C:63% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	-0.195 ± 0.313 (0.784) C:91% T:90%	pCi/L		03/04/22 18:26	
Total Radium Calculation	Total Radium	0.0406 ± 0.405 (1.00)	pCi/L		03/21/22 15:36	
92587081022	**YGWA-30I**					
EPA 9315	Radium-226	0.0634 ± 0.0744 (0.148) C:89% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.205 ± 0.331 (0.718) C:68% T:87%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.268 ± 0.405 (0.866)	pCi/L		03/21/22 15:36	
92587081023	**YGWA-4I**					
EPA 9315	Radium-226	0.501 ± 0.174 (0.154) C:90% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.495 ± 0.381 (0.744) C:69% T:88%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.996 ± 0.555 (0.898)	pCi/L		03/21/22 15:36	
92587081024	**YGWA-5D**					
EPA 9315	Radium-226	2.47 ± 0.487 (0.124) C:87% T:NA	pCi/L		03/18/22 10:23	
EPA 9320	Radium-228	0.856 ± 0.428 (0.737) C:69% T:93%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	3.33 ± 0.915 (0.861)	pCi/L		03/21/22 15:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081025	**UP-EB-2**					
EPA 9315	Radium-226	0.0353 ± 0.0661 (0.151) C:97% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.133 ± 0.314 (0.699) C:75% T:90%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.168 ± 0.380 (0.850)	pCi/L		03/22/22 15:27	
92587081026	**UP-FB-2**					
EPA 9315	Radium-226	0.0543 ± 0.0745 (0.158) C:98% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.148 ± 0.542 (1.23) C:72% T:89%	pCi/L		03/08/22 18:43	
Total Radium Calculation	Total Radium	0.202 ± 0.617 (1.39)	pCi/L		03/22/22 15:27	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-39 **Lab ID: 92587081001** Collected: 02/08/22 14:55 Received: 02/09/22 10:18 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	**0.621 ± 0.193 (0.145) C:97% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.213 ± 0.292 (0.626) C:86% T:87%**	pCi/L	03/04/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.834 ± 0.485 (0.771)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-40 **Lab ID: 92587081002** Collected: 02/08/22 13:22 Received: 02/09/22 10:18 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	**0.390 ± 0.164 (0.197) C:87% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.144 ± 0.283 (0.623) C:84% T:90%**	pCi/L	03/04/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.534 ± 0.447 (0.820)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-47 **Lab ID: 92587081003** Collected: 02/08/22 11:40 Received: 02/09/22 10:18 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	**0.241 ± 0.130 (0.183) C:91% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.159 ± 0.245 (0.528) C:84% T:90%**	pCi/L	03/04/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.400 ± 0.375 (0.711)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: GWA-2 **Lab ID: 92587081004** Collected: 02/08/22 11:50 Received: 02/09/22 10:18 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	**0.151 ± 0.105 (0.166) C:89% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.311 ± 0.281 (0.568) C:87% T:90%**	pCi/L	03/04/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.462 ± 0.386 (0.734)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-DUP-1 **Lab ID: 92587081005** Collected: 02/08/22 00:00 Received: 02/09/22 10:18 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	**0.138 ± 0.115 (0.208) C:75% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.617 ± 0.346 (0.625) C:86% T:88%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.755 ± 0.461 (0.833)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-1I **Lab ID: 92587081006** Collected: 02/09/22 13:45 Received: 02/10/22 17:00 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	**0.211 ± 0.123 (0.190) C:95% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.211 ± 0.575 (1.28) C:78% T:88%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.422 ± 0.698 (1.47)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-1D **Lab ID: 92587081007** Collected: 02/09/22 14:45 Received: 02/10/22 17:00 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	**0.294 ± 0.135 (0.159) C:93% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.893 ± 0.529 (0.973) C:78% T:89%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19 ± 0.664 (1.13)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-2I **Lab ID: 92587081008** Collected: 02/09/22 17:35 Received: 02/10/22 17:00 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	**0.205 ± 0.114 (0.150) C:91% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.689 ± 0.535 (1.05) C:77% T:90%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.894 ± 0.649 (1.20)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-3I **Lab ID: 92587081009** Collected: 02/09/22 11:35 Received: 02/10/22 17:00 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	**0.817 ± 0.240 (0.170) C:83% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.09 ± 0.451 (0.731) C:81% T:89%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.91 ± 0.691 (0.901)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-3D **Lab ID: 92587081010** Collected: 02/09/22 10:20 Received: 02/10/22 17:00 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	**1.41 ± 0.334 (0.200) C:96% T:NA**	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.87 ± 0.560 (0.704) C:82% T:90%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.28 ± 0.894 (0.904)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-EB-1 **Lab ID: 92587081011** Collected: 02/09/22 13:06 Received: 02/10/22 17:00 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	**0.0487 ± 0.0838 (0.189) C:97% T:NA**	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.387 ± 0.291 (0.568) C:83% T:97%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.436 ± 0.375 (0.757)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-FB-1 **Lab ID: 92587081012** Collected: 02/09/22 10:47 Received: 02/10/22 17:00 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	**0.0259 ± 0.0622 (0.149) C:95% T:NA**	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.546 ± 0.343 (0.645) C:81% T:93%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.572 ± 0.405 (0.794)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-17S **Lab ID: 92587081013** Collected: 02/09/22 10:20 Received: 02/10/22 17:00 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	**0.131 ± 0.0871 (0.122) C:95% T:NA**	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.00169 ± 0.325 (0.756) C:78% T:89%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.133 ± 0.412 (0.878)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-18S **Lab ID: 92587081014** Collected: 02/09/22 12:24 Received: 02/10/22 17:00 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	**0.0618 ± 0.0753 (0.152) C:93% T:NA**	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0652 ± 0.340 (0.796) C:81% T:91%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0618 ± 0.415 (0.948)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-18I **Lab ID: 92587081015** Collected: 02/09/22 14:31 Received: 02/10/22 17:00 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	**0.107 ± 0.0873 (0.149) C:94% T:NA**	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.464 ± 0.334 (0.645) C:76% T:92%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.571 ± 0.421 (0.794)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-20S **Lab ID: 92587081016** Collected: 02/09/22 16:19 Received: 02/10/22 17:00 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	**0.0382 ± 0.0564 (0.120) C:92% T:NA**	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.466 ± 0.326 (0.625) C:78% T:93%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.504 ± 0.382 (0.745)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-21I **Lab ID: 92587081017** Collected: 02/09/22 17:40 Received: 02/10/22 17:00 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	**0.790 ± 0.237 (0.195) C:86% T:NA**	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.15 ± 0.478 (0.782) C:81% T:88%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.94 ± 0.715 (0.977)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-5I **Lab ID: 92587081018** Collected: 02/10/22 17:27 Received: 02/11/22 16:45 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	**0.0387 ± 0.0686 (0.155) C:92% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.336 ± 0.397 (0.841) C:85% T:89%**	pCi/L	03/04/22 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.375 ± 0.466 (0.996)**	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-DUP-3 **Lab ID: 92587081019** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 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	**0.183 ± 0.111 (0.169) C:95% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.150 ± 0.507 (1.19) C:69% T:82%**	pCi/L	03/04/22 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.183 ± 0.618 (1.36)**	pCi/L	03/21/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-14S **Lab ID: 92587081020** Collected: 02/10/22 16:20 Received: 02/11/22 16:45 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	**-0.0197 ± 0.0632 (0.190) C:92% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.199 ± 0.449 (1.06) C:75% T:89%**	pCi/L	03/04/22 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000 ± 0.512 (1.25)**	pCi/L	03/21/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-DUP-2 **Lab ID: 92587081021** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 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	**0.0406 ± 0.0923 (0.219) C:63% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.195 ± 0.313 (0.784) C:91% T:90%**	pCi/L	03/04/22 18:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0406 ± 0.405 (1.00)**	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-30I **Lab ID: 92587081022** Collected: 02/10/22 09:20 Received: 02/11/22 16:45 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	**0.0634 ± 0.0744 (0.148) C:89% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.205 ± 0.331 (0.718) C:68% T:87%**	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.268 ± 0.405 (0.866)**	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-4I **Lab ID: 92587081023** Collected: 02/11/22 10:40 Received: 02/11/22 16:45 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	**0.501 ± 0.174 (0.154) C:90% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.495 ± 0.381 (0.744) C:69% T:88%**	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.996 ± 0.555 (0.898)**	pCi/L	03/21/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-5D **Lab ID: 92587081024** Collected: 02/10/22 17:46 Received: 02/11/22 16:45 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	**2.47 ± 0.487 (0.124) C:87% T:NA**	pCi/L	03/18/22 10:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.856 ± 0.428 (0.737) C:69% T:93%**	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.33 ± 0.915 (0.861)**	pCi/L	03/21/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-EB-2 **Lab ID: 92587081025** Collected: 02/10/22 11:40 Received: 02/11/22 16:45 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	**0.0353 ± 0.0661 (0.151) C:97% T:NA**	pCi/L	03/22/22 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.133 ± 0.314 (0.699) C:75% T:90%**	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.168 ± 0.380 (0.850)**	pCi/L	03/22/22 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-FB-2 **Lab ID: 92587081026** Collected: 02/10/22 17:13 Received: 02/11/22 16:45 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	**0.0543 ± 0.0745 (0.158) C:98% T:NA**	pCi/L	03/22/22 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.148 ± 0.542 (1.23) C:72% T:89%**	pCi/L	03/08/22 18:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.202 ± 0.617 (1.39)**	pCi/L	03/22/22 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486614
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081018, 92587081019, 92587081020, 92587081021, 92587081022, 92587081023, 92587081024

METHOD BLANK: 2353261
Matrix: Water
Associated Lab Samples: 92587081018, 92587081019, 92587081020, 92587081021, 92587081022, 92587081023, 92587081024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0547 ± 0.0680 (0.137) C:95% T:NA	pCi/L	03/18/22 09:04	

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

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486659
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081021

METHOD BLANK: 2353495 Matrix: Water
Associated Lab Samples: 92587081021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.115 ± 0.191 (0.414) C:101% T:93%	pCi/L	03/04/22 12:08	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486616
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081025, 92587081026

METHOD BLANK: 2353263 Matrix: Water
Associated Lab Samples: 92587081025, 92587081026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00708 ± 0.0659 (0.175) C:97% T:NA	pCi/L	03/22/22 09:52	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 485944
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017

METHOD BLANK: 2349863
Matrix: Water
Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0634 ± 0.0745 (0.148) C:93% T:NA	pCi/L	03/14/22 08:22	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486657
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017, 92587081018, 92587081019, 92587081020

METHOD BLANK: 2353492
Matrix: Water
Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017, 92587081018, 92587081019, 92587081020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.110 ± 0.223 (0.492) C:84% T:94%	pCi/L	03/04/22 12:08	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486660
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081022, 92587081023, 92587081024, 92587081025, 92587081026

METHOD BLANK: 2353496 Matrix: Water
Associated Lab Samples: 92587081022, 92587081023, 92587081024, 92587081025, 92587081026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0198 ± 0.286 (0.668) C:70% T:93%	pCi/L	03/08/22 15:19	

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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(770)734-4200

QUALIFIERS

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

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.

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587081001	YGWA-39	EPA 9315	485944		
92587081002	YGWA-40	EPA 9315	485944		
92587081003	YGWA-47	EPA 9315	485944		
92587081004	GWA-2	EPA 9315	485944		
92587081005	UP-DUP-1	EPA 9315	485944		
92587081006	YGWA-1I	EPA 9315	485944		
92587081007	YGWA-1D	EPA 9315	485944		
92587081008	YGWA-2I	EPA 9315	485944		
92587081009	YGWA-3I	EPA 9315	485944		
92587081010	YGWA-3D	EPA 9315	485944		
92587081011	UP-EB-1	EPA 9315	485944		
92587081012	UP-FB-1	EPA 9315	485944		
92587081013	YGWA-17S	EPA 9315	485944		
92587081014	YGWA-18S	EPA 9315	485944		
92587081015	YGWA-18I	EPA 9315	485944		
92587081016	YGWA-20S	EPA 9315	485944		
92587081017	YGWA-21I	EPA 9315	485944		
92587081018	YGWA-5I	EPA 9315	486614		
92587081019	UP-DUP-3	EPA 9315	486614		
92587081020	YGWA-14S	EPA 9315	486614		
92587081021	UP-DUP-2	EPA 9315	486614		
92587081022	YGWA-30I	EPA 9315	486614		
92587081023	YGWA-4I	EPA 9315	486614		
92587081024	YGWA-5D	EPA 9315	486614		
92587081025	UP-EB-2	EPA 9315	486616		
92587081026	UP-FB-2	EPA 9315	486616		
92587081001	YGWA-39	EPA 9320	486657		
92587081002	YGWA-40	EPA 9320	486657		
92587081003	YGWA-47	EPA 9320	486657		
92587081004	GWA-2	EPA 9320	486657		
92587081005	UP-DUP-1	EPA 9320	486657		
92587081006	YGWA-1I	EPA 9320	486657		
92587081007	YGWA-1D	EPA 9320	486657		
92587081008	YGWA-2I	EPA 9320	486657		
92587081009	YGWA-3I	EPA 9320	486657		
92587081010	YGWA-3D	EPA 9320	486657		
92587081011	UP-EB-1	EPA 9320	486657		
92587081012	UP-FB-1	EPA 9320	486657		
92587081013	YGWA-17S	EPA 9320	486657		
92587081014	YGWA-18S	EPA 9320	486657		
92587081015	YGWA-18I	EPA 9320	486657		
92587081016	YGWA-20S	EPA 9320	486657		
92587081017	YGWA-21I	EPA 9320	486657		
92587081018	YGWA-5I	EPA 9320	486657		
92587081019	UP-DUP-3	EPA 9320	486657		
92587081020	YGWA-14S	EPA 9320	486657		
92587081021	UP-DUP-2	EPA 9320	486659		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587081022	**YGWA-30I**	EPA 9320	486660		
92587081023	**YGWA-4I**	EPA 9320	486660		
92587081024	**YGWA-5D**	EPA 9320	486660		
92587081025	**UP-EB-2**	EPA 9320	486660		
92587081026	**UP-FB-2**	EPA 9320	486660		
92587081001	**YGWA-39**	Total Radium Calculation	490241		
92587081002	**YGWA-40**	Total Radium Calculation	490241		
92587081003	**YGWA-47**	Total Radium Calculation	490241		
92587081004	**GWA-2**	Total Radium Calculation	490241		
92587081005	**UP-DUP-1**	Total Radium Calculation	490241		
92587081006	**YGWA-1I**	Total Radium Calculation	490241		
92587081007	**YGWA-1D**	Total Radium Calculation	490241		
92587081008	**YGWA-2I**	Total Radium Calculation	490241		
92587081009	**YGWA-3I**	Total Radium Calculation	490241		
92587081010	**YGWA-3D**	Total Radium Calculation	490241		
92587081011	**UP-EB-1**	Total Radium Calculation	490241		
92587081012	**UP-FB-1**	Total Radium Calculation	490241		
92587081013	**YGWA-17S**	Total Radium Calculation	490241		
92587081014	**YGWA-18S**	Total Radium Calculation	490241		
92587081015	**YGWA-18I**	Total Radium Calculation	490241		
92587081016	**YGWA-20S**	Total Radium Calculation	490241		
92587081017	**YGWA-21I**	Total Radium Calculation	490241		
92587081018	**YGWA-5I**	Total Radium Calculation	491834		
92587081019	**UP-DUP-3**	Total Radium Calculation	491834		
92587081020	**YGWA-14S**	Total Radium Calculation	491834		
92587081021	**UP-DUP-2**	Total Radium Calculation	491834		
92587081022	**YGWA-30I**	Total Radium Calculation	491834		
92587081023	**YGWA-4I**	Total Radium Calculation	491834		
92587081024	**YGWA-5D**	Total Radium Calculation	491834		
92587081025	**UP-EB-2**	Total Radium Calculation	492151		
92587081026	**UP-FB-2**	Total Radium Calculation	492151		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92587091

92587091

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/22

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

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

Thermometer: ☑ IR Gun ID: 083 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 2.3 **Correction Factor:** Add/Subtract (°C) +0.2

Cooler Temp Corrected (°C): 2.5

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

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

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

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

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:** _____

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To:
Phone: Fax
Requested Due Date:

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	YGWA-39	WT	G	2/8/22	1455	-	-		5	2		3							X	X	X	X			pH: 5.78
2	YGWA-40	WT	G	2/8/22	1522	-	-		5	2		3							X	X	X	X			pH: 5.26
3	~~YGWA-11~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X			pH:
4	~~YGWA-1D~~	WT	G			-	-		5	2		3							X	X	X	X			pH:
5	~~YGWA-2I~~	WT	G			-	-		5	2		3							X	X	X	X			pH:
6	~~YGWA-3I~~	WT	G			-	-		5	2		3							X	X	X	X			pH:
7	~~YGWA-3D~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X			pH:
8	~~YGWA-14S~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X			pH:
9	UP-DUP-2	WT	G			-	-		5	2		3							X	X	X	X			pH:
10	YGWA-30I	WT	G			-	-		5	2		3							X	X	X	X			pH:
11	UP-EB-1	WT	G			-	-		5	2		3							X	X	X	X			
12	UP-FB-1	WT	G			-	-		5	2		3							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018	/Arcadis	2/9	1018
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)						

SAMPLE CONDITIONS: TEMP in C; Received on Ice (Y/N); Custody Sealed Cooler (Y/N); Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lipszynski
SIGNATURE of SAMPLER:
DATE Signed: 2/9/22

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To:
Phone: Fax
Requested Due Date:

Section B — Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G	2/8/22	1140	–	–		5	2		3						Y	Y	Y	Y	Y			pH: 5.to
2	~~GWA-2~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y	Y			pH:
3	~~UP-DUP-1~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y	Y			pH:
4	~~YGWA-41~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y	Y			pH:
5	~~YGWA-51~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
6	~~UP-DUP-3~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
7	~~YGWA-50~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
8	~~YGWA-175~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
9	~~UGWA-185~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
10	~~YGWA-181~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
11	~~YGWA-205~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
12	~~YGWA-211~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se); 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825
/Arcadis	2/9/22	1018	/	2/9	1018

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesh

SIGNATURE of SAMPLER:

DATE Signed: 2/9/22

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

State / Location

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~YGWA-4I~~	WT	G						5	2		3						X	X	X	X			pH:
2	GWA-2	WT	G						5	2		3						X	X	X	X	X		pH: 5.83
3	UP-DUP-1	WT	G			--	--		5	2		3						X	X	X	X	X		pH: ~~6.08~~
4	~~YGWA-II~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
5	~~YGWA-5I~~	WT	G			--	--		5	2		3						X	X	X	-			pH:
6	~~UP-DUP-3~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
7	~~YGWA-5D~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
8	~~YGWA-17S~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
9	UGWA-18S	WT	G			--	--		5	2		3						X	X	X	X			pH:
10	YGWA-18I	WT	G			--	--		5	2		3						X	X	X	X			pH:
11	~~YGWA-20S~~	WT	G			--	--		5	2		3						X	X	X	X			pH:
12	~~YGWA-21I~~	WT	G			--	--		5	2		3						X	X	X	X			pH:

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	2/9/22	0840		2/9/22	0840	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: DATE Signed: 02-09-22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92587091

PM: NMG Due Date: 02/23/22

CLIENT: GA-GA Power

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/10/22 CM

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

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

Thermometer: ☑ IR Gun ID: 214 ☐ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.4 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 3.5

Temp should be above freezing to 6°C

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

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

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

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

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

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:** _____

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~YGWA-39~~	WT	G						5	2		3						Requested Analysis Filtered (Y/N)	X	X	X	X		
2	~~YGWA-40~~	WT	G						5	2		3							X	X	X	X		
3	YGWA-1I	WT	G	2/9/22	1345	--	--		5	2		3							X	X	X	X		
4	YGWA-1D	WT	G	2/9/22	1445	--	--		5	2		3							X	X	X	X		
5	YGWA-2I	WT	G	2/9/22	1355	--	--		5	2		3							X	X	X	X		
6	YGWA-3I	WT	G	2/9/22	1135	--	--		5	2		3							X	X	X	X		
7	YGWA-3D	WT	G	2/9/22	1020	--	--		5	2		3							X	X	X	X		
8	~~YGWA-14S~~	WT	G			--	--		5	2		3							X	X	X	X		
9	~~UP-DUP-2~~	WT	G			--	--		5	2		3							X	X	X	X		
10	~~YGWA-30I~~	WT	G			--	--		5	2		3							X	X	X	X		
11	~~UP-EB-1~~	WT	G			--	--		5	2		3							X	X	X	X		
12	~~UP-FB-1~~	WT	G			--	--		3	2		3							X	X	X	X		

Residual Chlorine (Y/N): pH: ; pH: ; pH: 6.24; pH: 7.12; pH: 5.89; pH: 7.66; pH: 7.07; pH: ; pH: ; pH: ; pH: ;

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suits 300.0 (Cl, F, Sulfate)	/Arcadis	2/10/22	1435		2/10/22	1435
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	2/10/22	1700		2/10/22	1700
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)						

SAMPLE CONDITIONS: TEMP in C; Received on Ice (Y/N); Custody Sealed Cooler (Y/N); Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2/10/22

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	YGWA-6S	WT	G						5	2		3						X	X	X	X			pH:
2	YGWA-4D	WT	G						5	2		3						X	X	X	X			pH:
3	YGWA-1I	WT	G						5	2		3						X	X	X	X			pH:
4	YGWA-1D	WT	G			–	–		5	2		3						X	X	X	X			pH:
5	YGWA-2I	WT	G						5	2		3						X	X	X	X			pH:
6	YGWA-3I	WT	G						5	2		3						X	X	X	X			pH:
7	YGWA-3D	WT	G						5	2		3						X	X	X	X			pH:
8	YGWA-14S	WT	G						5	2		3						X	X	X	X			pH:
9	UP-DUP-2	WT	G						5	2		3						X	X	X	X			pH:
10	YGWA-30I	WT	G			–	–		5	2		3						X	X	X	X			pH:
11	UP-EB-1	WT	G	2/9/22	1304	–	–		5	2		3						X	X	X	X			
12	UP-FB-1	WT	G	2/9/22	1047	–	–		5	2		3						X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/10/22	1435		2/10/22	1435	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	2/10/22	1700		2/10	1700	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To:
Phone: Fax
Requested Due Date:

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~YGWA-47~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~
2	~~GWA-2~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~
3	~~UP-DUP-1~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~
4	~~YGWA-4I~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~
5	~~MOWA-5I~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~
6	~~UP-DUP-3~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~
7	~~YGWA-5D~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~
8	YGWA-17S	WT	G	2/9/22	1020	–	–		5	2		3						Y	X	X	X	X		pH: 5.53
9	UGWA-18S	WT	G	2/9/22	1224	–	–		5	2		3						Y	X	X	X	X		pH: 5.28
10	YGWA-18I	WT	G	2/9/22	1431	–	–		5	2		3						Y	X	X	X	X		pH: 5.98
11	YGWA-20S	WT	G	2/9/22	1619	–	–		5	2		3						Y	X	X	X	X		pH: 5.91
12	YGWA-21I	WT	G	2/9/22	1740	–	–		5	2		3						Y	X	X	X	X		pH: 6.84

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/10/22	1435	/ Arcadis	2/10/22	1435	
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Ni, V	/ Arcadis	2/10/22	1700		2/10	1700	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92587091

PM: NTC **Due Date:** 02/23/22

CLIENT: GA-GA Power

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: JAE 2/11/22

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

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

Thermometer: ☐ IR Gun ID: 214 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) +.1

Cooler Temp Corrected (°C): 4.2

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

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

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

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

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:** _____

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 4

Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To:
Phone: Fax
Requested Due Date:

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I /II (gypsum only)	Residual Chlorine (Y/N)	pH
1	YGWA-4?	WT	G						5	2		3							X	X	X	X			
2	GWA-2	WT	G			-	-		5	2		3							X	X	X	X	X		
3	UP-DUP-1	WT	G			-			5	2		3							X	X	X	X	X		
4	YGWA-4I	WT	G			-	-		5	2		3							X	X	X	X			
5	YGWA-5I	WT	G	2/10/22	1727	-	-		5	2		3							X	X	X	-			5.14
6	UP-DUP-3	WT	G	2/10/22	-	-	-		5	2		3							X	X	X	X			
7	YGWA-5D	WT	G						5	2		3							X	X	X	X			
8	YGWA-17S	WT	G						5	2		3							X	X	X	X			
9	UGWA-10S	WT	G						5	2		3							X	X	X	X			
10	YGWA-10I	WT	G			-	-		5	2		3							X	X	X	X			
11	YGWA-20S	WT	G			-	-		5	2		3							X	X	X	X			
12	YGWA-21I	WT	G			-	-		5	2		3							X	X	X	X			

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/11/22	1445	Khalil Carson/Arcadis	2/11/22	1445
Khalil Carson	2/11/22	1645		2/11/22	1695

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesk
SIGNATURE of SAMPLER:
DATE Signed: 2/11/22

SAMPLE CONDITIONS

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WT	G			--	--		5	2		3							X	X	X	X			pH
2	YGWA-40	WT	G			--	--		5	2		3							X	X	X	X			pH
3	YGWA-1I	WT	G			--	--		5	2		3							X	X	X	X			pH
4	YGWA-1D	WT	G			--	--		5	2		3							X	X	X	X			pH
5	YGWA-2I	WT	G			--	--		5	2		3							X	X	X	X			pH
6	YGWA-3I	WT	G			--	--		5	2		3							X	X	X	X			pH
7	YGWA-3D	WT	G			--	--		5	2		3							X	X	X	X			pH
8	YGWA-14S	WT	G	02/16/22	Hold	--	--		5	2		3							X	X	X	X			pH
9	UP-DUP-2	WT	G	02/16/22		--	--		5	2		3							X	X	X	X			pH 4.50
10	YGWA-30I	WT	G	02/17/22	0920	--	--		5	2		3							X	X	X	X			pH 5.59
11	UP-EB-1	WT	G			--	--		5	2		3							X	X	X	X			pH
12	UP-FB-1	WT	G			--	--		5	2		3							X	X	X	X			pH

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	02/11/22	1645	Joan T	2/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLE CONDITIONS: TEMP in C; Received on Ice (Y/N); Custody Sealed Cooler (Y/N); Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: [signature] DATE Signed: 02/11/22

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 Of 4

Section A
Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To:
Phone: Fax
Requested Due Date:

Section B
Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C
Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency
State / Location: Georgia

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gpysum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G			–	–		5	2		3							X	X	X	X			pH:
2	GWA-2	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
3	UP-DUP-1	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
4	YGWA-4I	WT	G	2/11	1040	–	–		5	2		3							X	X	X	X			pH: 5.95
5	YGWA-5I	WT	G			–	–		5	2		3							X	X	X	.			pH:
6	UP-DUP-3	WT	G			–	–		5	2		3							X	X	X	X			pH:
7	YGWA-5D	WT	G	2/10	1746	–	–		5	2		3							X	X	X	X			pH: 6.99
8	YGWA-17S	WT	G			–	–		5	2		3							X	X	X	X			pH:
9	UGWA-18S	WT	G			–	–		5	2		3							X	X	X	X			pH:
10	YGWA-18I	WT	G			–	–		5	2		3							X	X	X	X			pH:
11	YGWA-20S	WT	G			–	–		5	2		3							X	X	X	X			pH:
12	YGWA-21I	WT	G			–	–		5	2		3							X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson / Arcadis	02-11-45	1645	Joann Paulk	4/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 02/10/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 5 Of 5

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gpysum only)	Residual Chlorine (Y/N)	
1	UP-EB-2	WT	G	[illegible]	1140	–	–		5	2		3							X	X	X	X			pH
2	UP-FB-2	WT	G			–	–		5	2		3							X	X	X	X			pH
3						–	–																		
4						–	–																		
5						–	–																		
6						–	–																		
7						–	–																		
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	04/11/22	[illegible]	Joann Faull	4/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 4 Of 4

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~UP-EB-2~~	WT	G						5	2		3							X	X	X	X		
2	UP-FB-2	WT	G	2/10/2013		–	–		5	2		3							X	X	X	X			pH:
3						–	–																		pH:
4						–	–																		
5						–	–																		
6						–	–																		
7						–	–																		
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Khalil Carson	2/11/22	1445
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Khalil Carson	2/11/22	1645		2/11/22	1645
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)						

SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Mark Elsner
SIGNATURE of SAMPLER:
DATE Signed: 2/11/22

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	2/27/2022
Worklist:	65255
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2349863
MB concentration:	0.063
M/B Counting Uncertainty:	0.074
MB MDC:	0.148
MB Numerical Performance Indicator:	1.68
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65255	LCSD65255
Count Date:	3/14/2022	3/14/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.500
Target Conc. (pCi/L, g, F):	4.727	4.804
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	4.451	5.230
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.439	0.486
Numerical Performance Indicator:	-1.22	1.71
Percent Recovery:	94.16%	108.86%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS65255	92587081001
Duplicate Sample I.D.	LCSD65255	92587081001DUP
Sample Result (pCi/L, g, F):	4.451	0.621
Sample Result Counting Uncertainty (pCi/L, g, F):	0.439	0.171
Sample Duplicate Result (pCi/L, g, F):	5.230	0.589
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.486	0.174
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-2.332	0.257
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	14.47%	5.30%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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:

3/14/22

LAM 3/14/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	2/27/2022
Worklist:	65254
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2349823
MB concentration:	0.023
M/B Counting Uncertainty:	0.071
MB MDC:	0.175
MB Numerical Performance Indicator:	0.65
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65254	LCSD65254
Count Date:	3/11/2022	3/11/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.503
Target Conc. (pCi/L, g, F):	4.753	4.772
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.401	4.767
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.497	0.465
Numerical Performance Indicator:	2.54	-0.02
Percent Recovery:	113.63%	99.89%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS65254	92587078001
Duplicate Sample I.D.	LCSD65254	92587078001DUP
Sample Result (pCi/L, g, F):	5.401	0.273
Sample Result Counting Uncertainty (pCi/L, g, F):	0.497	0.136
Sample Duplicate Result (pCi/L, g, F):	4.767	0.177
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.465	0.106
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.824	1.094
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.87%	42.81%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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:

~~***Batch must be re-prepped due to unacceptable precision.***~~ N/A

UAM 3/14/22

3/14/22

UAM 3/14/22

Appendix D

Statistical Analysis

GROUNDWATER STATS CONSULTING

August 31, 2022

Southern Company Services
Attn: Ms. Lauren Coker
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, GA 30308-3374

Re: Plant Yates Ash Management Area (AMA) and R6 CCR Landfill
February 2022 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2022 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals 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, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV 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-23S, YGWC-24SA, YGWC-36A, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-49
- **Delineation wells:** YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, PZ-35, PZ-37, and PZ-52D

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. When a minimum of 4 samples is available, delineation wells are evaluated using confidence intervals for the Appendix IV constituents.

Well YGWC-24SA was installed in June 2020 as a replacement well for YGWC-24S and well YGWC-36A was installed in September 2020 as a replacement well for YGWC-36 to supplement existing data for each respective well. In all cases, concentrations from both wells are below established MCLs. When a minimum of 8 samples have been collected from new well YGWC-36A, the Mann-Whitney test of medians will be used to evaluate whether the medians of data from both wells are statistically similar. In cases where there are statistically significant differences, the historical record will be truncated so that only data from new well YGWC-36A are evaluated in the confidence interval comparisons to respective Groundwater Protection Standards. Throughout this report, well YGWC-24SA refers to the combined data from both wells YGWC-24S and YGWC-24SA and well YGWC-36A refers to data from both wells YGWC-36 and YGWC-36A.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed Kristina Rayner, Founder and Senior Statistician to 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 and delineation well/constituent pairs with 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. The absence of samples from upgradient wells will affect the sample size of the combined background data set that is used for interwell limits among all units at Plant Yates; however, the calculated limits are not affected greatly.

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. In time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports.

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 on downgradient well data compared against Ground Water Protection Standards (GWPS) for each Appendix IV constituent

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 limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The 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 in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are 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 Conducted in April 2019

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.

Using the Tukey box plot method, several outliers were identified. When the most recent value is identified as an outlier, values are not flagged in the database at this time as they 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.

During the time of the screening, none of the outliers identified by Tukey's method were flagged in the database as all values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. Subsequently, when all upgradient wells were pooled to construct statistical limits, one detected value of 6.3 s.u. for pH at well YGWA-47 (an upgradient well from AP-1) was flagged as an outlier because it was unusually high during a single event compared to all other values at neighboring wells. When any values are flagged in the database as outliers, they 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 may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends and the results of those findings were submitted with the screening. 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 parameters. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only two years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. 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 are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified variation among upgradient well data for all Appendix III parameters. These constituents were further evaluated during the screening for the appropriateness of intrawell or interwell methods for each constituent. However, interwell

methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – February 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2022 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 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 and, 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 (Figure D). Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, and YGWC-43
- Calcium: YGWC-38 and YGWC-42
- Sulfate: YGWC-38 and YGWC-42
- TDS: YGWC-38, YGWC-41, YGWC-42, and YGWC-43

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient

wells are included in the trend analyses 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 natural variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: YGWC-43
- Calcium: GWA-2, YGWA-1D, YGWA-17S, and YGWA-21I (all upgradient)
- pH: YGWA-21I (upgradient)
- Sulfate: GWA-2, YGWA-1D, YGWA-3D, YGWA-3I, and YGWA-5I (all upgradient)
- TDS: GWA-2 (upgradient) and YGWC-43

Decreasing:

- Boron: YGWA-40 (upgradient), YGWC-38, YGWC-41, and YGWC-42
- Calcium: YGWA-1I (upgradient), YGWA-5D (upgradient), YGWA-18S (upgradient), YGWA-47 (upgradient), YGWC-38, and YGWC-42
- Sulfate: YGWA-5D (upgradient), YGWA-18I (upgradient), YGWA-39 (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, and YGWC-42
- TDS: YGWA-5D (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, YGWC-41, and YGWC-42

Statistical Analysis of Appendix IV Parameters – February 2022

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis.

A high value of 0.072 mg/L for cobalt at upgradient well GWA-2 from the February 2022 sample event was flagged in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. The reported measurements since August 2020 were previously flagged as these measurements were up to two orders of magnitude higher than remaining measurements at this well. If further studies indicate these measurements represent natural variation in groundwater quality, the values will be included in construction of interwell prediction limits. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2022 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level (or false positive rate) for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level (or false positive rate) is too small to display in the results table.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the state requirements in each downgradient well (Figure H). Delineation wells were included when a minimum of 4 samples were available.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Confidence intervals were compared to the GWPS prepared as described above. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals follows this letter. When the entire records were evaluated, exceedances were noted for the following well/constituent pairs:

- Beryllium: YGWC-38
- Selenium: YGWC-38 and PZ-37

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). 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 trends, it is an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends:
- Selenium: YGWA-17S (upgradient)

Decreasing trends:
- Beryllium: YGWA-20S (upgradient) and YGWC-38
- Selenium: YGWC-38

Note that for beryllium at downgradient well YGWC-38, the more recent concentrations are lower than historical concentrations and do not exceed the GWPS. Therefore, a confidence interval for this well/constituent pair was constructed using the 8 most recent observations (August 2019 – February 2022) to further demonstrate the decrease in concentrations and compliance with the respective GWPS (Figure J). No confidence interval exceedance was identified for beryllium at this well.

Addendum Report - Cobalt YGWC-33S

Downgradient well YGWC-33S was abandoned in June 2020 and exhibited an exceedance at that time of the GWPS for cobalt, which was based on the wells immediately upgradient of this unit. During this analysis, this well/constituent pair was re-evaluated using the

current method of establishing an upper tolerance limit from the pooled upgradient well data through March 2020 from across all Yates sites rather than only the wells immediately upgradient of Yates AMA-R6 (Figure K). Additionally, the resultant upper tolerance limit for cobalt was compared to the CCR-Rule specified level (as mentioned above) to determine the GWPS (Figure L). A confidence interval was then constructed and compared against the GWPS (Figure M). No exceedance was identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. 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

100% Non-Detects: Appendix IV Downgradient & Delineation

Analysis Run 4/19/2022 5:35 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Antimony (mg/L)
YAMW-2, YAMW-3

Arsenic (mg/L)
YAMW-2

Beryllium (mg/L)
YAMW-4

Cadmium (mg/L)
YAMW-2, YAMW-3, YAMW-4, YGWC-43

Cobalt (mg/L)
YGWC-23S, YGWC-38

Fluoride (mg/L)
YAMW-1, YAMW-2, YAMW-3, YAMW-5

Lead (mg/L)
YAMW-3

Lithium (mg/L)
YAMW-2

Mercury (mg/L)
YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5

Molybdenum (mg/L)
YAMW-2, YAMW-5, YGWC-23S, YGWC-38, YGWC-41

Selenium (mg/L)
YAMW-2, YAMW-3, YGWC-43

Thallium (mg/L)
YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43

Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-23S	0.16	n/a	2/10/2022	1.5	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	2/10/2022	5.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/8/2022	4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/10/2022	14.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/8/2022	2.3	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/10/2022	68.9	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/10/2022	74.4	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	2/10/2022	290	Yes	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	2/10/2022	485	Yes	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	223.8	n/a	2/10/2022	541	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	223.8	n/a	2/8/2022	226	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	223.8	n/a	2/10/2022	882	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	223.8	n/a	2/8/2022	294	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/10/2022**	**1.5**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/10/2022**	**5.4**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/8/2022**	**4**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/10/2022**	**14.4**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/8/2022**	**2.3**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	2/8/2022	0.04ND	No	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SA	0.16	n/a	2/10/2022	0.04ND	No	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/11/2022	0.019J	No	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/10/2022	11.8	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/10/2022**	**68.9**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	2/8/2022	15	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/10/2022**	**74.4**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	2/8/2022	9.9	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/8/2022	12.7	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SA	37	n/a	2/10/2022	2.2	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/11/2022	4.6	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	10.9	n/a	2/10/2022	1.9	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	10.9	n/a	2/10/2022	4	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	10.9	n/a	2/8/2022	3.5	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	10.9	n/a	2/10/2022	3.3	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	10.9	n/a	2/8/2022	2.1	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	10.9	n/a	2/8/2022	4.2	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	10.9	n/a	2/10/2022	8.7	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	10.9	n/a	2/11/2022	6.6	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/8/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/8/2022	0.066J	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/8/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SA	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	2/11/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	2/10/2022	5.51	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.4	2/10/2022	4.85	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	2/8/2022	5.07	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	2/10/2022	5.57	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	2/8/2022	5.82	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/8/2022	5.79	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SA	8.39	4.4	2/10/2022	4.66	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	2/11/2022	5.58	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/10/2022	78.7	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**2/10/2022**	**290**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-41	160	n/a	2/8/2022	109	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/10/2022**	**485**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-43	160	n/a	2/8/2022	133	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	2/8/2022	73.9	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SA	160	n/a	2/10/2022	0.5ND	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/11/2022	16.4	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	223.8	n/a	2/10/2022	180	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-38**	**223.8**	**n/a**	**2/10/2022**	**541**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-41**	**223.8**	**n/a**	**2/8/2022**	**226**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**223.8**	**n/a**	**2/10/2022**	**882**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**223.8**	**n/a**	**2/8/2022**	**294**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-49	223.8	n/a	2/8/2022	164	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SA	223.8	n/a	2/10/2022	78	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	223.8	n/a	2/11/2022	81	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.924	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.621	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.573	-62	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.6123	69	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1305	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07569	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.174	97	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.819	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-29.53	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.96	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.677	-83	-53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.816	78	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7001	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.0958	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1558	-69	-68	Yes	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.833	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-9.797	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.238	-119	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0955	100	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-157.5	-94	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-111.1	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-19.14	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	18.82	81	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4345	86	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.183	74	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-13.89	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-15.08	-97	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-210	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-119.1	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-162.2	-79	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	86.07	65	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-13.78	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	24.56	61	58	Yes	16	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.00005921	8	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-26	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0001172	14	68	No	18	22.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-11	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-46	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.007949	41	53	No	15	6.667	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01631**	**-64**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	-5	-68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	26	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-32	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	-0.03367	-16	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-3.924**	**-83**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-2.621**	**-68**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-42**	**-1.573**	**-62**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.6123**	**69**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0007235	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0004307	-27	-68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0003452	22	68	No	18	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-10	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-22	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-19	-68	No	18	88.89	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1305**	**91**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.02072	10	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07569**	**-96**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.04138	51	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**1.174**	**97**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-39 (bg)	0.9186	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.7684	-45	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.009311	4	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.819**	**-87**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-5I (bg)	0.06854	66	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWC-38**	**-29.53**	**-91**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-42**	**-11.96**	**-71**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.677**	**-83**	**-53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**3.816**	**78**	**58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	-0.00868	-30	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-1D (bg)**	**0.7001**	**77**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.0958**	**-81**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.08578	11	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.006518	17	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5552	59	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.6025	52	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.07043	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1558**	**-69**	**-68**	**Yes**	**18**	**22.22**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1518	-54	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	36	68	No	18	66.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2086	-31	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.833**	**-59**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-9.797**	**-77**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.0866	30	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.238**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.0955**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**YGWC-38**	**-157.5**	**-94**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-42**	**-111.1**	**-76**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-19.14**	**-92**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**18.82**	**81**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	0.04468	14	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9733**	**103**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.1386	-20	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.7686	44	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03944	-14	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4345**	**86**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**1.183**	**74**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	4.594	38	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-0.8196	-15	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.4481	12	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.147	36	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	12.83	63	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	28.42	53	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-40 (bg)**	**-13.89**	**-55**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.5267	6	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-5D (bg)**	**-15.08**	**-97**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	0	-4	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWC-38**	**-210**	**-75**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-41**	**-119.1**	**-83**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-42**	**-162.2**	**-79**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-43**	**86.07**	**65**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-13.78**	**-75**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GWA-2 (bg)**	**24.56**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.8555	20	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	0.2702	7	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-2.568	-31	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-2.032	-29	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	2.779	37	68	No	18	11.11	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	1.473	15	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	1.513	13	68	No	18	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a	353	n/a	n/a	87.25	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	401	n/a	n/a	75.06	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	401	n/a	n/a	2.743	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	385	n/a	n/a	80.26	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a	385	n/a	n/a	95.58	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a	353	n/a	n/a	79.6	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	396	n/a	n/a	69.19	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a	380	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	400	n/a	n/a	67.5	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	355	n/a	n/a	84.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	380	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	309	n/a	n/a	93.2	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	344	n/a	n/a	60.17	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	383	n/a	n/a	91.91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	319	n/a	n/a	96.87	n/a	n/a	NaN	NP Inter(NDs)

YATES AMA-R6 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		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	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		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	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 Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**YGWC-38**	**0.005381**	**0.004128**	**0.004**	**Yes**	**16**	**0.004494**	**0.001209**	**0**	**None**	**x^4**	**0.01**	**Param.**
Selenium (mg/L)	**YGWC-38**	**0.249**	**0.073**	**0.05**	**Yes**	**16**	**0.1613**	**0.07941**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Selenium (mg/L)	**PZ-37**	**0.2916**	**0.2149**	**0.05**	**Yes**	**13**	**0.2532**	**0.05155**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	7	0.005681	0.008573	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	YAMW-4	0.001179	0.0004933	0.006	No	5	0.001674	0.001225	40	Kaplan-Meier	ln(x)	0.01	Param.
Antimony (mg/L)	YAMW-5	0.003	0.00033	0.006	No	5	0.002466	0.001194	80	Kaplan-Meier	No	0.031	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	18	0.002592	0.0009432	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.00063	0.006	No	15	0.002403	0.001051	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	15	0.002893	0.0004131	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	15	0.002835	0.0006378	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	15	0.002821	0.0006946	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	15	0.002709	0.0007763	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	7	0.002627	0.0009865	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	13	0.002673	0.0008263	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SA	0.003	0.0009	0.006	No	18	0.002883	0.000495	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0014	0.006	No	18	0.004	0.006144	44.44	None	No	0.01	NP (normality)
Arsenic (mg/L)	YAMW-1	0.005	0.0023	0.01	No	8	0.004662	0.0009546	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.002818	0.0001089	0.01	No	5	0.002878	0.00206	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YAMW-5	0.002618	0.0006151	0.01	No	5	0.00297	0.001924	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	20	0.004685	0.0009922	90	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.002013	0.000835	0.01	No	16	0.001654	0.001397	12.5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.00062	0.01	No	16	0.002964	0.002135	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.002976	0.00149	0.01	No	16	0.002311	0.001241	12.5	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.00099	0.01	No	16	0.004025	0.001777	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	15	0.004164	0.001732	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00069	0.01	No	8	0.003556	0.002016	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0008	0.01	No	13	0.002357	0.001857	30.77	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-24SA	0.005	0.0024	0.01	No	20	0.004695	0.0009501	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0014	0.01	No	20	0.003957	0.00186	75	None	No	0.01	NP (NDs)
Barium (mg/L)	YAMW-1	0.0704	0.0286	2	No	8	0.0495	0.01972	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-2	0.009472	0.006728	2	No	5	0.0081	0.0008185	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.0286	0.0005986	2	No	5	0.01086	0.008882	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YAMW-5	0.05689	0.02631	2	No	5	0.0416	0.009127	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-23S	0.04635	0.03106	2	No	20	0.03871	0.01347	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-38	0.02311	0.01783	2	No	16	0.02047	0.004062	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02906	0.02034	2	No	16	0.0247	0.006706	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04468	0.03077	2	No	16	0.03773	0.01069	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.034	0.01762	2	No	16	0.02581	0.01259	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07861	0.0694	2	No	15	0.07401	0.0068	0	None	No	0.01	Param.
Barium (mg/L)	PZ-35	0.074	0.032	2	No	8	0.04763	0.01732	0	None	No	0.004	NP (normality)
Barium (mg/L)	PZ-37	0.05511	0.03813	2	No	13	0.04662	0.01142	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SA	0.025	0.019	2	No	20	0.02103	0.003574	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04377	0.03278	2	No	20	0.03828	0.009683	0	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000058	0.004	No	8	0.0003354	0.0001982	50	None	No	0.004	NP (normality)
Beryllium (mg/L)	YAMW-2	0.0005	0.000051	0.004	No	5	0.000238	0.0002393	40	None	No	0.031	NP (normality)
Beryllium (mg/L)	YAMW-5	0.00017	0.000092	0.004	No	6	0.000131	0.00002839	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00023	0.000081	0.004	No	20	0.0002108	0.000176	25	None	No	0.01	NP (normality)
Beryllium (mg/L)	**YGWC-38**	**0.005381**	**0.004128**	**0.004**	**Yes**	**16**	**0.004494**	**0.001209**	**0**	**None**	**x^4**	**0.01**	**Param.**
Beryllium (mg/L)	YGWC-41	0.0037	0.0016	0.004	No	16	0.0028	0.0009737	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	16	0.0003416	0.0002115	62.5	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00053	0.00029	0.004	No	16	0.0004075	0.0001423	37.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00015	0.0001	0.004	No	15	0.00014	0.0001009	6.667	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-35	0.000479	0.000269	0.004	No	9	0.0004122	0.000117	22.22	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0004733	0.0002084	0.004	No	13	0.0004062	0.0002152	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	YGWC-24SA	0.00016	0.0001	0.004	No	20	0.000178	0.0001413	15	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003309	0.000206	0.004	No	20	0.0002685	0.0001099	5	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00013	0.005	No	8	0.0002938	0.0001734	37.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	YAMW-5	0.0002574	0.0001586	0.005	No	5	0.000208	0.0000295	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	20	0.0004785	0.00009615	95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.0029	0.0013	0.005	No	16	0.002194	0.0007141	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-41	0.0005	0.00015	0.005	No	16	0.0002913	0.0001516	31.25	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	16	0.0003919	0.0001608	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	15	0.0004713	0.000111	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	8	0.0004575	0.0001202	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0007228	0.000308	0.005	No	13	0.0005438	0.0002744	15.38	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	YGWC-36A	0.0005	0.00017	0.005	No	20	0.000269	0.0001585	30	None	No	0.01	NP (normality)
Chromium (mg/L)	YAMW-1	0.005	0.00058	0.1	No	6	0.001563	0.001702	16.67	None	No	0.0155	NP (normality)
Chromium (mg/L)	YAMW-2	0.002983	0.00002161	0.1	No	5	0.002202	0.001797	20	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	5	0.004114	0.001981	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	5	0.00432	0.001521	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.0008	0.1	No	16	0.003509	0.002005	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	16	0.004447	0.001512	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	16	0.004712	0.001152	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	16	0.004208	0.001711	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00071	0.1	No	16	0.003911	0.001949	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.0021	0.0014	0.1	No	14	0.001971	0.0009059	7.143	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-35	0.005	0.0006	0.1	No	6	0.002185	0.002192	33.33	None	No	0.0155	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0017	0.1	No	13	0.0042	0.001532	76.92	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SA	0.005	0.0011	0.1	No	16	0.004259	0.001594	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0013	0.1	No	16	0.004155	0.001615	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YAMW-1	0.02551	0.007375	0.035	No	9	0.01644	0.009964	22.22	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.002488	0.0002417	0.035	No	5	0.001154	0.0007745	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-4	0.001001	0.0001991	0.035	No	5	0.0006	0.0002393	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	5	0.004154	0.001892	80	None	No	0.031	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.00069	0.035	No	16	0.003899	0.001976	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.0025	0.0017	0.035	No	16	0.002119	0.000862	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-43	0.005	0.0015	0.035	No	16	0.003184	0.001786	43.75	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0006	0.035	No	15	0.003833	0.002003	73.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	8	0.005112	0.0003182	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	PZ-37	0.01174	0.004444	0.035	No	13	0.008092	0.004907	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	20	0.003885	0.001984	75	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.7655	0.2653	6.92	No	7	0.5154	0.2105	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.9255	-0.1666	6.92	No	5	0.3795	0.3259	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-4	1.466	0.02573	6.92	No	5	0.746	0.4298	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.602	0.4665	6.92	No	5	1.034	0.3389	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7741	0.3606	6.92	No	20	0.5674	0.3641	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.242	0.5941	6.92	No	16	0.9179	0.4977	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.234	0.589	6.92	No	16	0.9627	0.5633	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.714	1.139	6.92	No	16	1.926	1.21	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	3.591	1.399	6.92	No	16	2.649	1.818	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.09	0.4612	6.92	No	15	0.7755	0.4638	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	1.106	0.1853	6.92	No	7	0.6456	0.3875	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.995	1.306	6.92	No	13	1.651	0.4631	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SA	0.7755	0.4933	6.92	No	20	0.6344	0.2484	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	1.04	0.5384	6.92	No	20	0.7893	0.4419	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-4	0.14	0.1	4	No	5	0.116	0.02191	60	None	No	0.031	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.12	0.049	4	No	21	0.09519	0.01926	85.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.21	0.034	4	No	17	0.1544	0.112	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	17	0.1006	0.002425	88.24	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.07	4	No	17	0.08771	0.02476	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1065	0.05855	4	No	17	0.1041	0.05169	23.53	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	16	0.09938	0.02516	62.5	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37	0.31	0.1	4	No	13	0.1654	0.1131	69.23	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	YGWC-24SA	0.1	0.098	4	No	21	0.09671	0.01461	90.48	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.09	4	No	21	0.09314	0.03137	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	7	0.0008843	0.0003062	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00008	0.015	No	5	0.000638	0.0004958	60	None	No	0.031	NP (NDs)
Lead (mg/L)	YAMW-4	0.0006106	1.2e-7	0.015	No	5	0.0005832	0.0004119	40	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	YAMW-5	0.0001361	0.00003504	0.015	No	5	0.0004448	0.0005074	40	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	18	0.0008237	0.0003468	77.78	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	16	0.0008313	0.0003628	81.25	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.00012	0.015	No	16	0.0007848	0.0004016	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.00009	0.015	No	16	0.0007744	0.0004047	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	16	0.0008847	0.0003151	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	15	0.0009373	0.000243	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.015	No	7	0.0007481	0.0004305	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.000088	0.015	No	13	0.0006672	0.0004396	61.54	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SA	0.001	0.00036	0.015	No	18	0.0009118	0.0002619	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004876	0.0001631	0.015	No	18	0.0005517	0.0004303	22.22	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	YAMW-1	0.02035	0.005228	0.04	No	8	0.01279	0.007132	12.5	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.04078	0.01402	0.04	No	5	0.0274	0.007987	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01705	0.01295	0.04	No	5	0.015	0.001225	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.0029	0.0018	0.04	No	20	0.00297	0.002893	5	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-38	0.008794	0.007443	0.04	No	16	0.008119	0.001038	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0044	0.0023	0.04	No	16	0.00405	0.003054	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.04879	0.03226	0.04	No	16	0.04053	0.0127	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01839	0.01168	0.04	No	16	0.01503	0.005157	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.0038	0.0035	0.04	No	15	0.003693	0.0002314	0	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-35	0.015	0.001	0.04	No	8	0.00435	0.005458	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	PZ-37	0.02955	0.02194	0.04	No	13	0.02575	0.005122	7.692	None	No	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.006428	0.00297	0.04	No	20	0.005019	0.003162	5	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	15	0.0001899	0.00002849	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	13	0.0001782	0.00005386	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	13	0.0001892	0.00003883	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	13	0.0001883	0.00004216	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	13	0.0001802	0.00004906	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	12	0.0001834	0.00004223	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.00006	0.002	No	13	0.0001892	0.00003883	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.004175	0.0009024	0.1	No	6	0.003665	0.003321	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.008881	0.004799	0.1	No	5	0.00684	0.001218	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-42	0.01	0.00085	0.1	No	16	0.004692	0.004295	37.5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0012	0.1	No	16	0.005481	0.004286	43.75	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	14	0.009336	0.002486	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	6	0.00865	0.003307	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0015	0.1	No	13	0.004931	0.004184	38.46	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0025	0.1	No	16	0.007437	0.003629	62.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-1	0.005	0.0019	0.05	No	8	0.004125	0.001273	62.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	YAMW-4	0.0183	0.0002687	0.05	No	6	0.01097	0.007869	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	YAMW-5	0.06572	0.03336	0.05	No	6	0.05067	0.01337	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.0392	0.02767	0.05	No	20	0.03344	0.01015	0	None	No	0.01	Param.
Selenium (mg/L)	**YGWC-38**	**0.249**	**0.073**	**0.05**	**Yes**	**16**	**0.1613**	**0.07941**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Selenium (mg/L)	YGWC-41	0.06255	0.04042	0.05	No	16	0.05149	0.01701	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05555	0.04084	0.05	No	16	0.04819	0.0113	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008701	0.006765	0.05	No	15	0.007733	0.001429	6.667	None	No	0.01	Param.
Selenium (mg/L)	PZ-35	0.005	0.0016	0.05	No	8	0.004325	0.001305	75	None	No	0.004	NP (NDs)
Selenium (mg/L)	**PZ-37**	**0.2916**	**0.2149**	**0.05**	**Yes**	**13**	**0.2532**	**0.05155**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	YGWC-36A	0.002616	0.00179	0.05	No	20	0.00344	0.001421	40	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	13	0.00093	0.0002524	92.31	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:44 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**YGWA-20S (bg)**	**-0.0005346**	**-112**	**-87**	**Yes**	**21**	**47.62**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	**YGWC-38**	**-0.0007575**	**-90**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0.0004358**	**94**	**81**	**Yes**	**20**	**70**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.055**	**-107**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:44 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	YGWA-17S (bg)	-0.0000159	-69	-81	No	20	40	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-18I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-18S (bg)	-0.0005455	-67	-87	No	21	42.86	n/a	n/a	0.01	NP
Beryllium (mg/L)	**YGWA-20S (bg)**	**-0.0005346**	**-112**	**-87**	**Yes**	**21**	**47.62**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	YGWA-21I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-39 (bg)	0	-10	-63	No	17	94.12	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-40 (bg)	-0.00001094	-24	-63	No	17	11.76	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-4I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-5D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-5I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	**YGWC-38**	**-0.0007575**	**-90**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	YGWA-47 (bg)	0	-25	-48	No	14	64.29	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-2 (bg)	0	0	199	No	37	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-14S (bg)	0	-19	-74	No	19	10.53	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-1D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-1I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-2I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-30I (bg)	0	-13	-74	No	19	89.47	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-3D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-3I (bg)	0	-10	-74	No	19	94.74	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0.0004358**	**94**	**81**	**Yes**	**20**	**70**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	37	87	No	21	90.48	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	2	63	No	17	94.12	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	-0.000656	-47	-63	No	17	35.29	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	3	87	No	21	90.48	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	18	87	No	21	95.24	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWC-38**	**-0.055**	**-107**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-47 (bg)	0	17	38	No	12	83.33	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	199	No	37	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	42	74	No	19	68.42	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	PZ-37	-0.003058	-4	-43	No	13	0	n/a	n/a	0.01	NP

Confidence Interval - Beryllium YGWC-38

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YGWC-38	0.004376	0.002624	0.004	No	8	0.003488	0.0008576	0	None	sqrt(x)	0.01	Param.

Upper Tolerance Limit Summary Table - Cobalt

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:18 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	307	n/a	n/a	69.71	n/a	n/a	NaN	NP Inter(NDs)

YATES AMA-R6 GWPS - JUNE 2020				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Cobalt, Total (mg/L)		0.006	0.035	0.035

**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 - Cobalt YGWC-33S

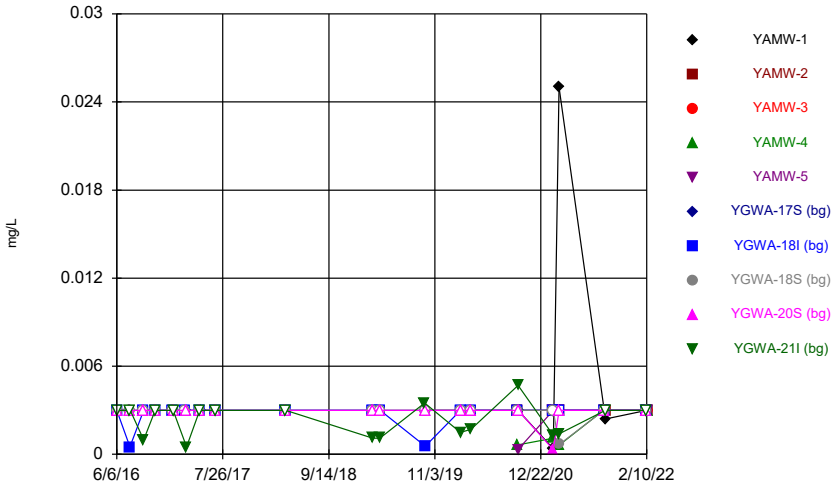
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	YGWC-33S	0.02603	0.01477	0.035	No	15	0.0204	0.008309	0	None	No	0.01	Param.

FIGURE A.

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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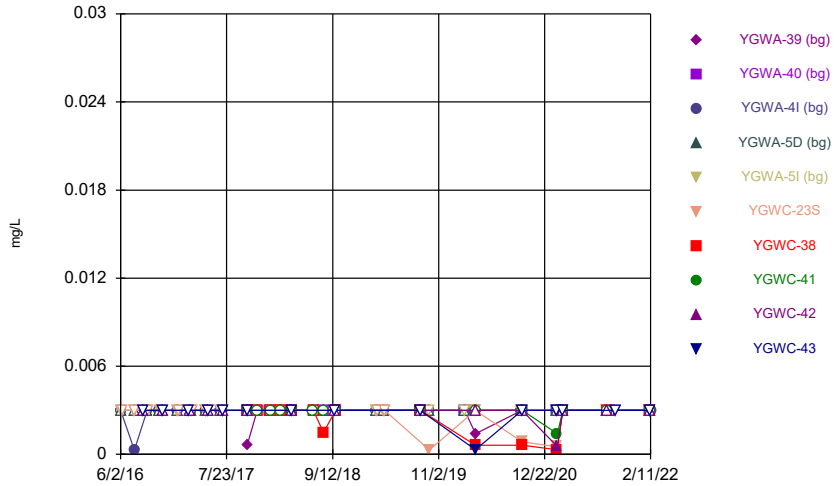

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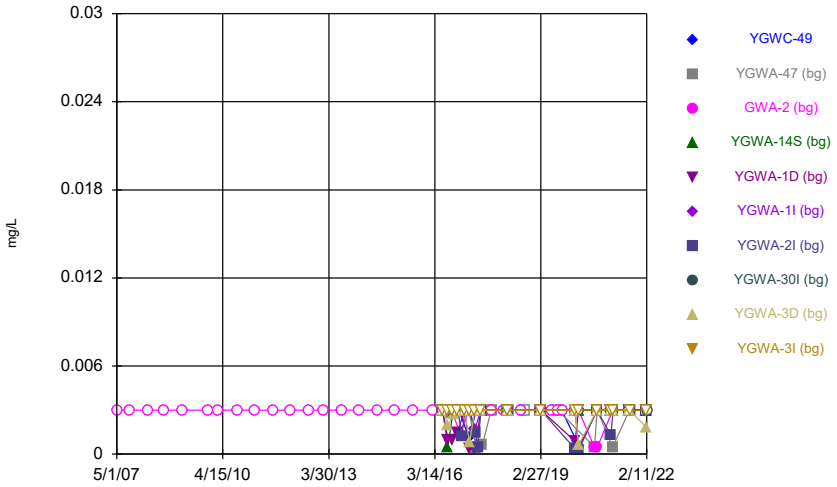

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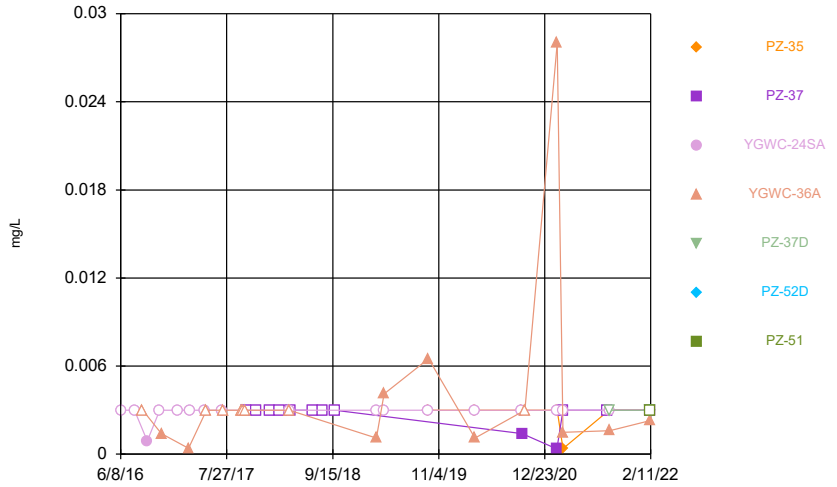

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Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
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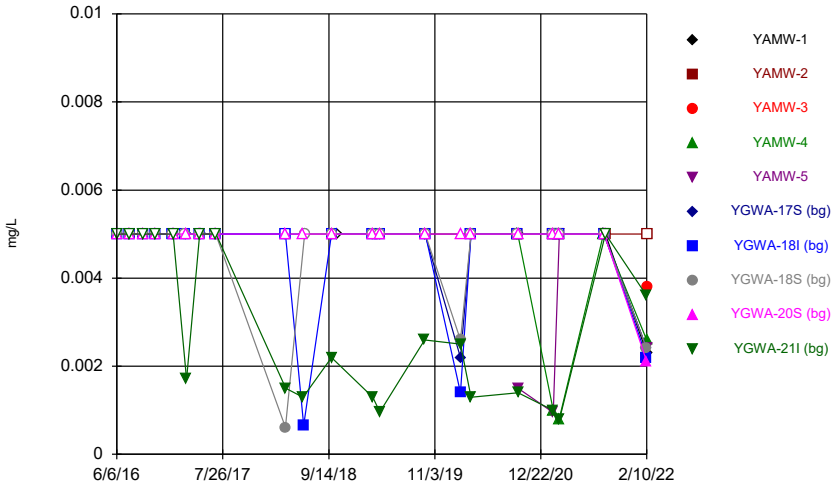

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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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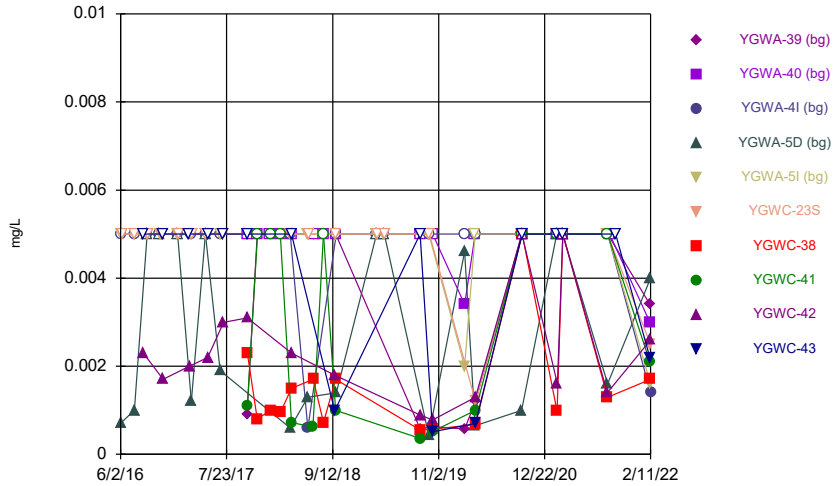

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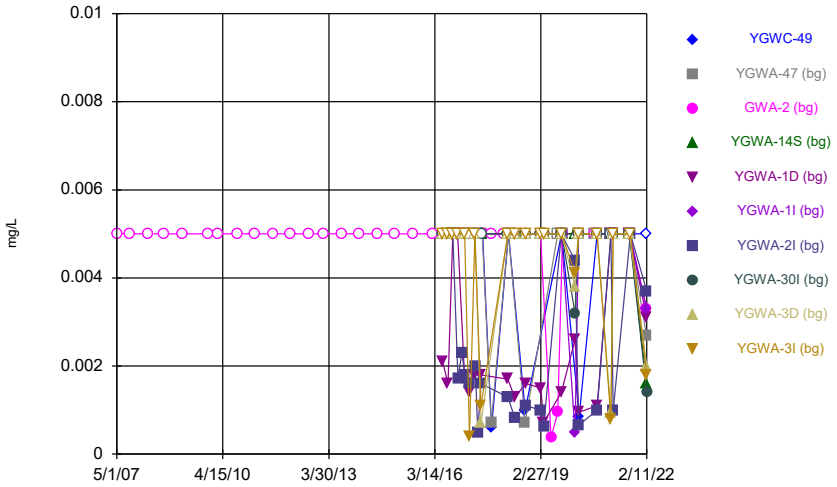

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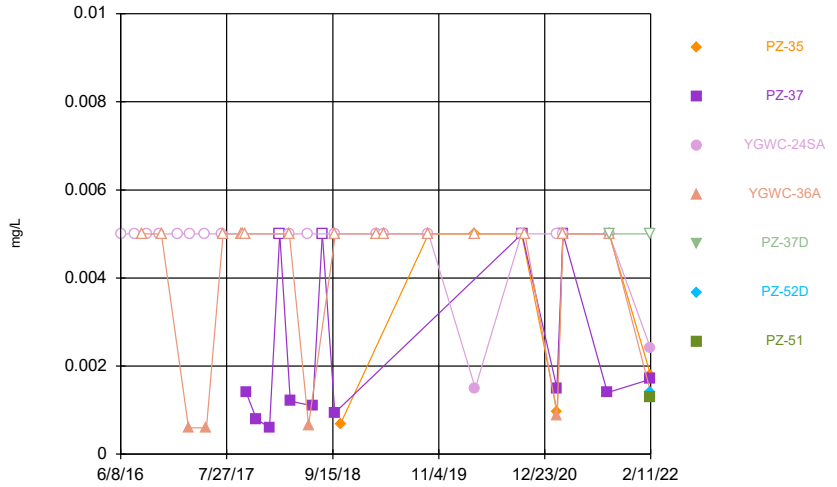

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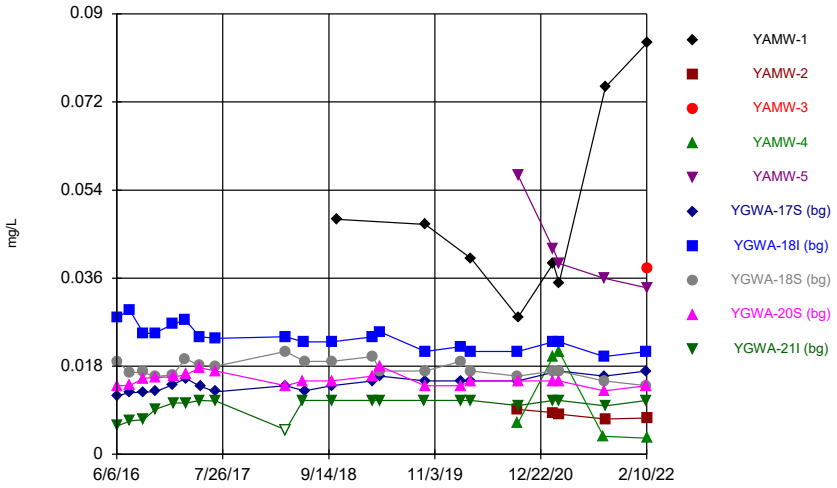

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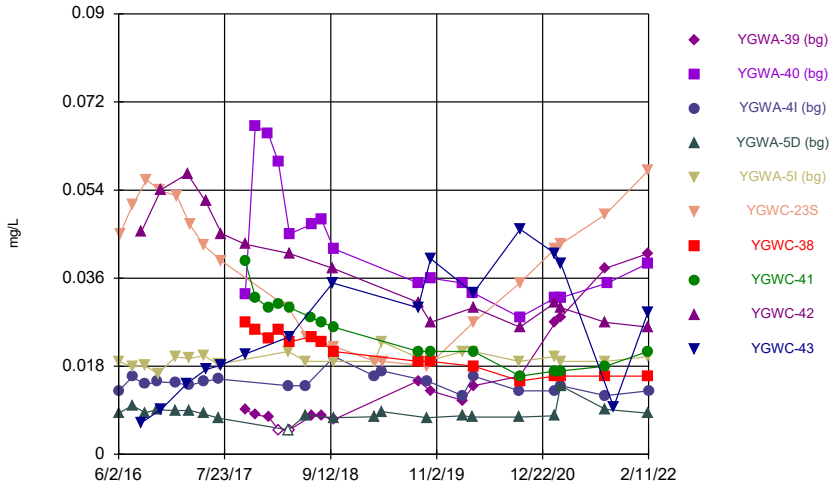

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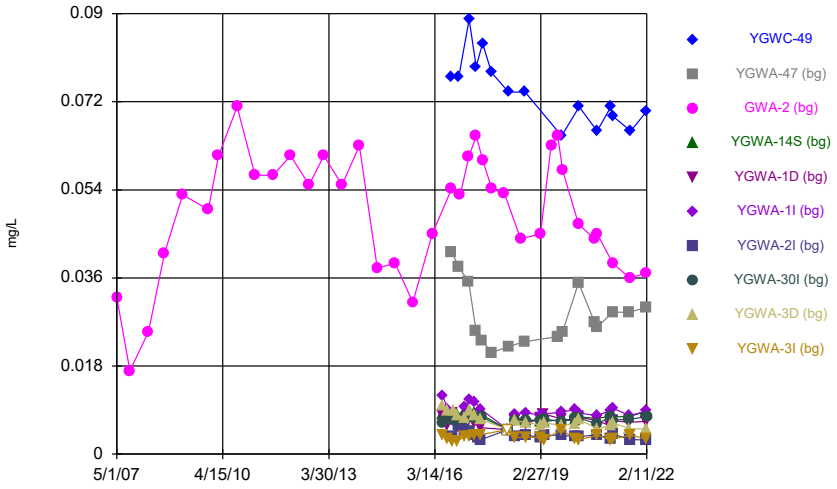

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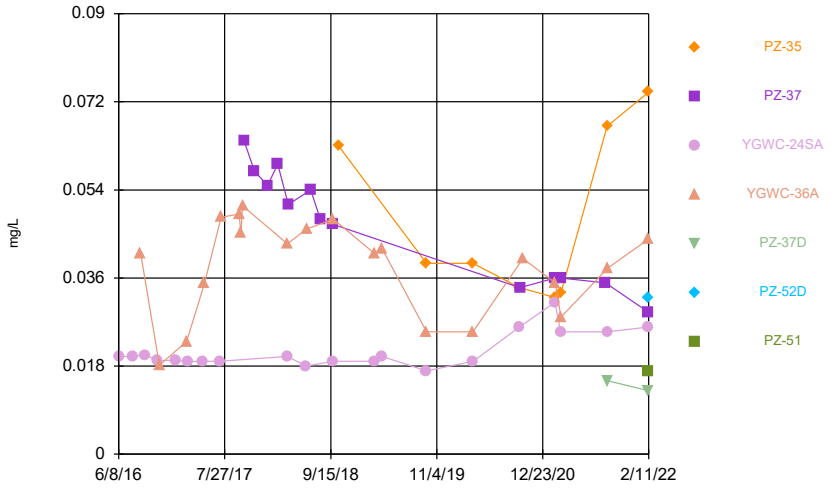
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series



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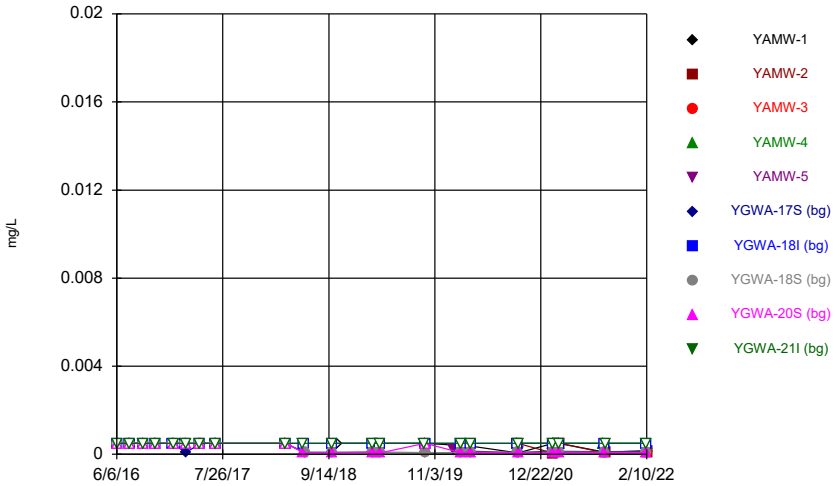

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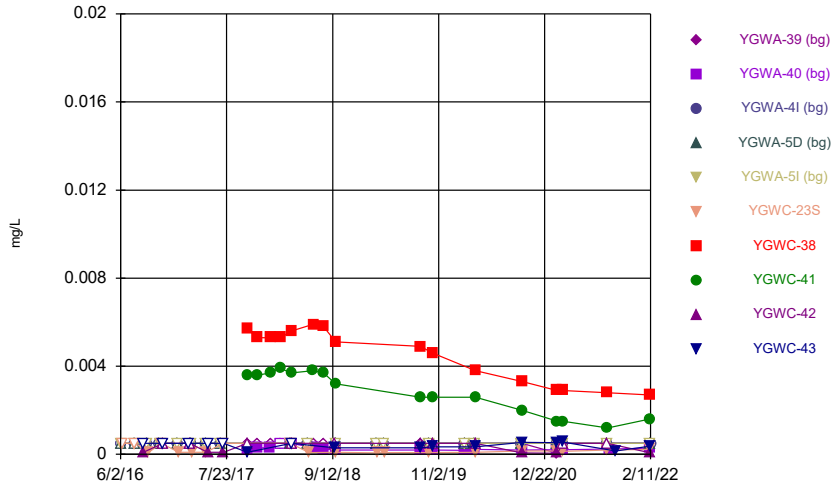

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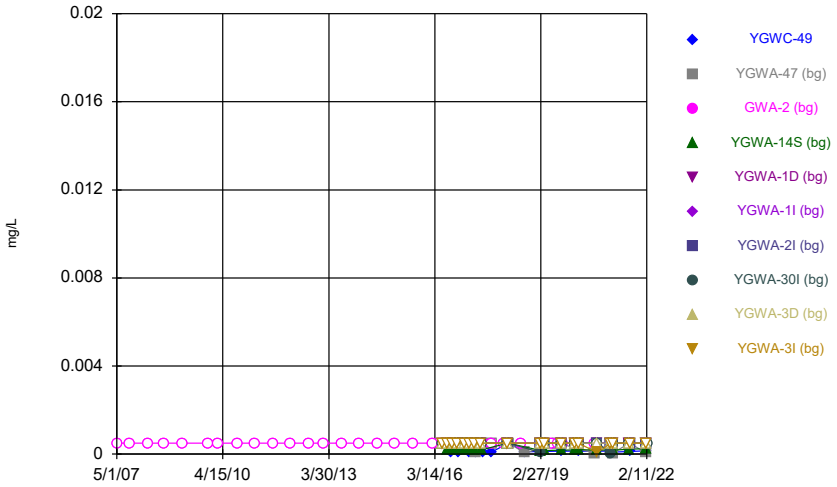

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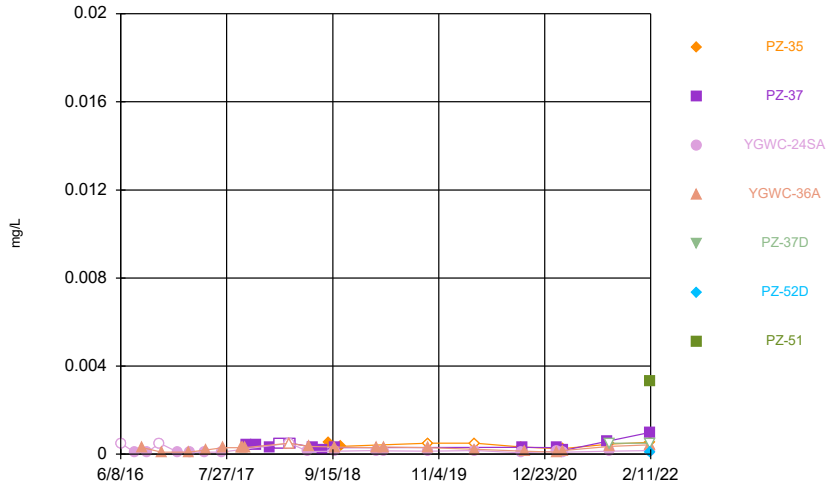

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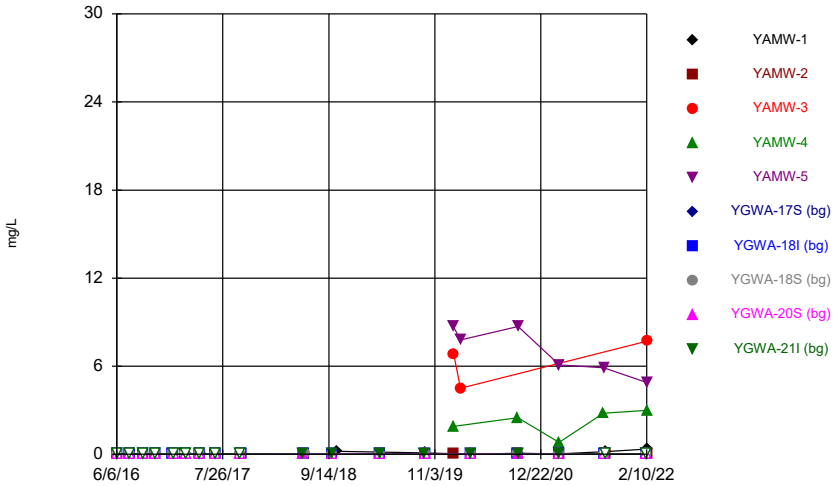

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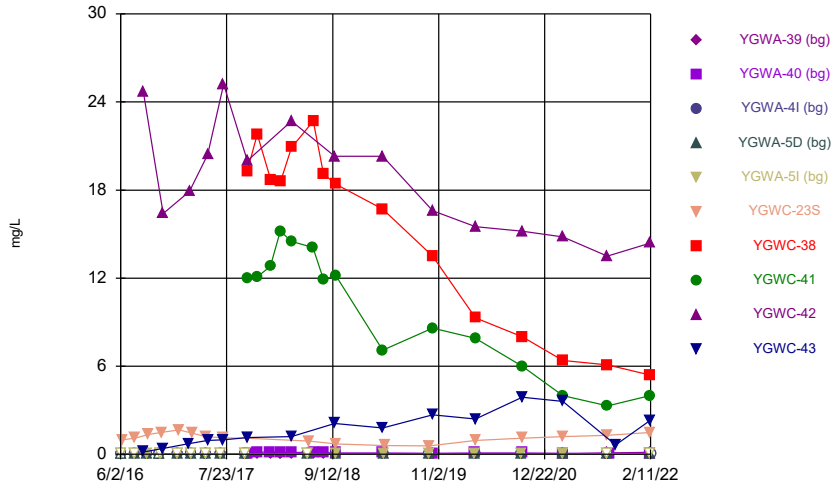

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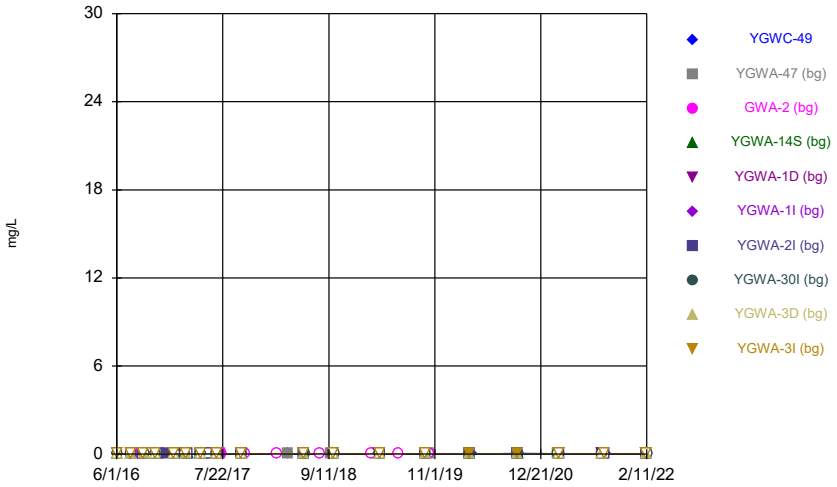

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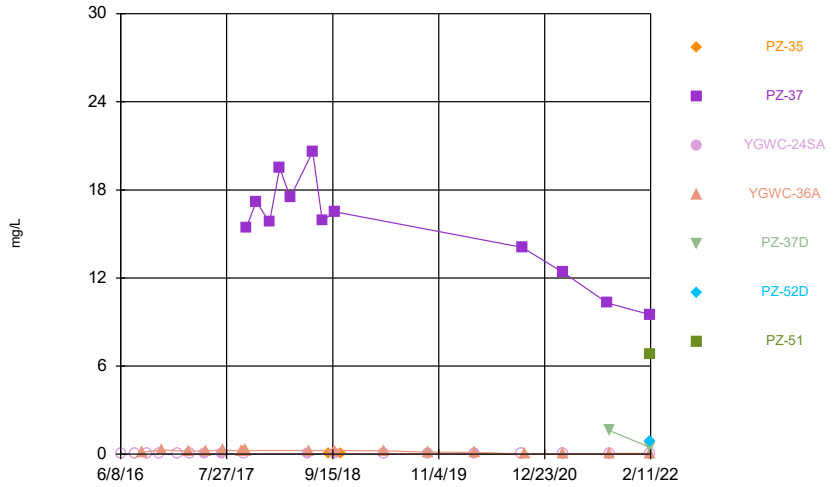

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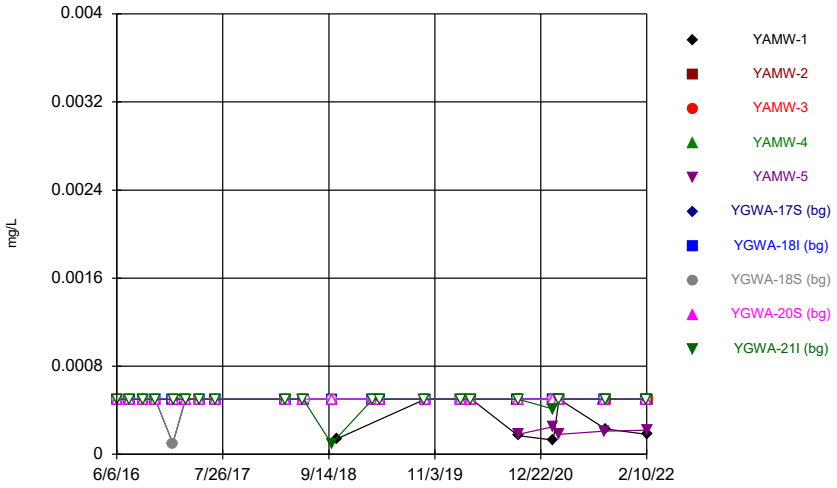

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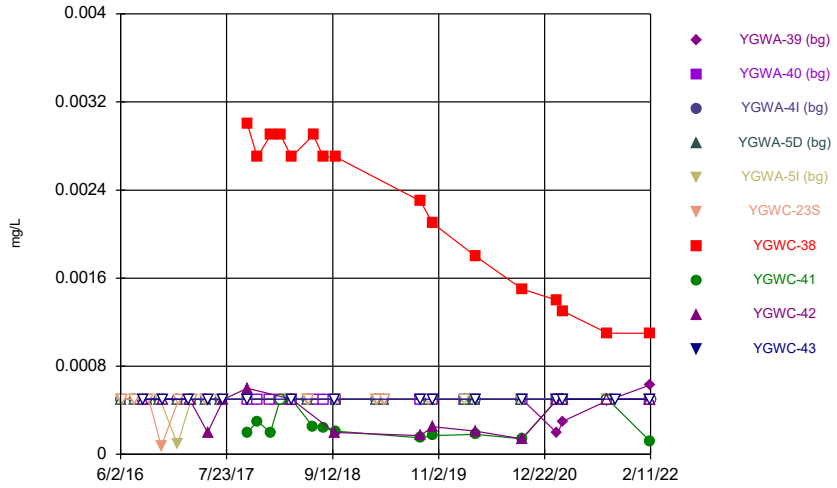

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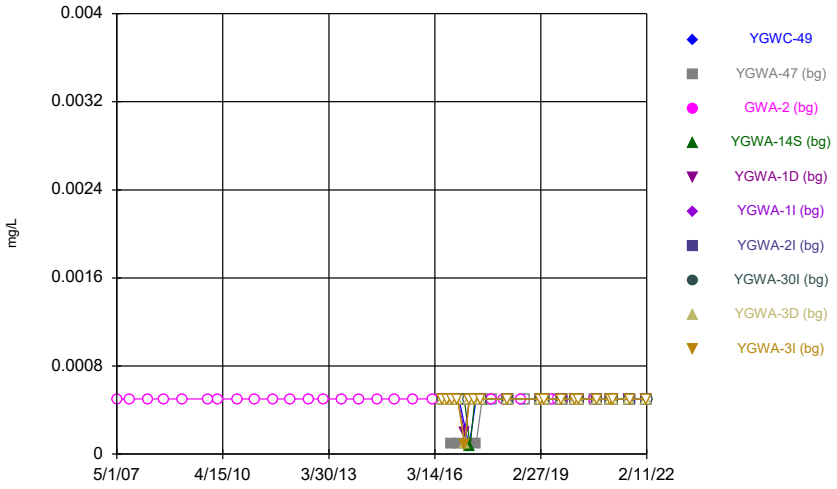

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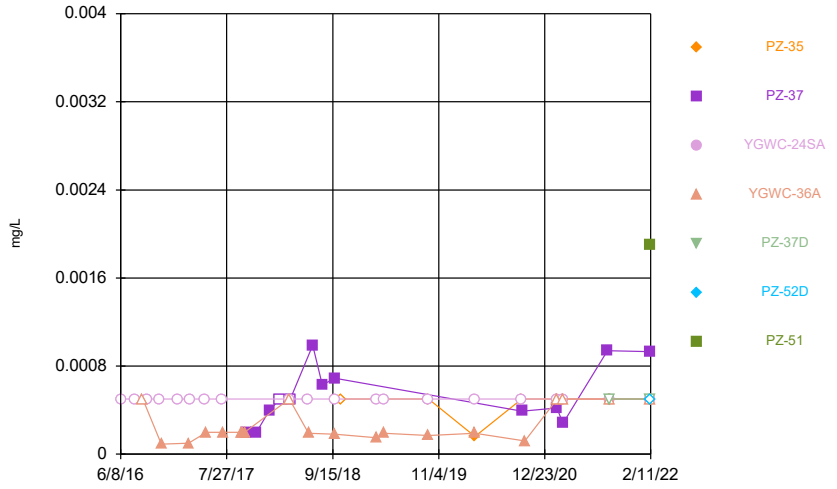

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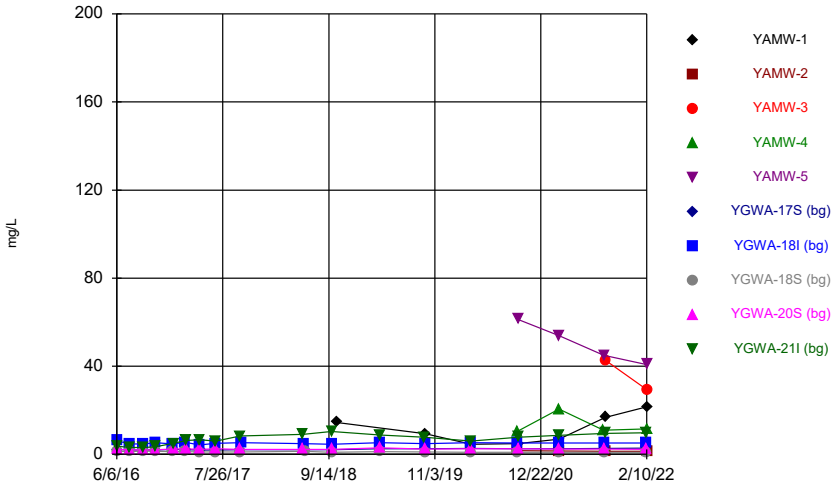

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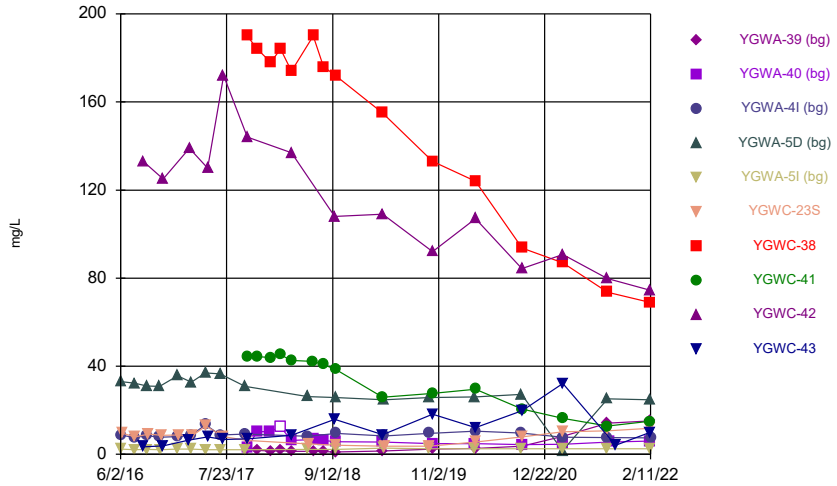

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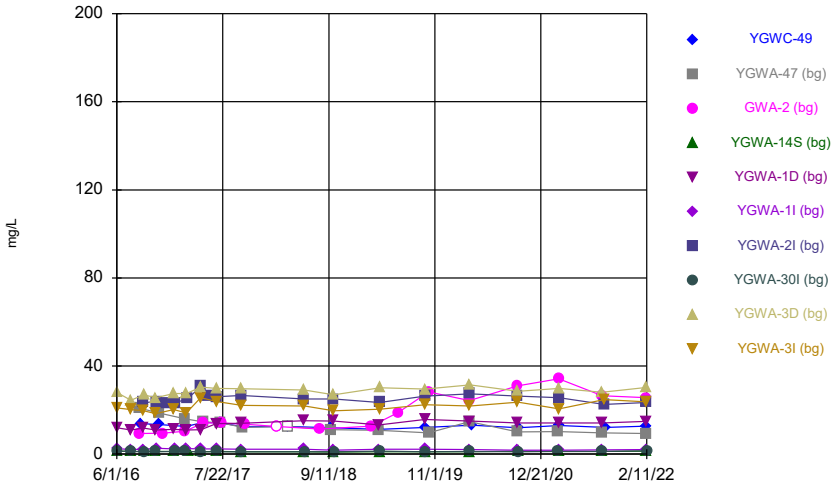

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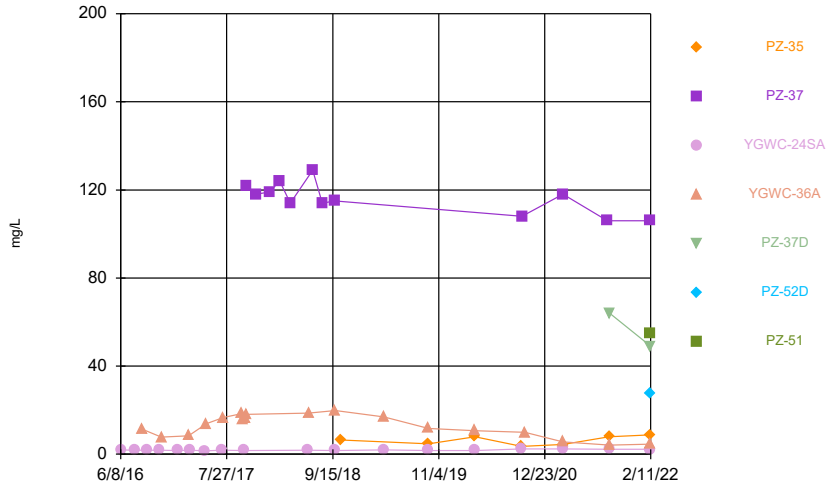
Time Series



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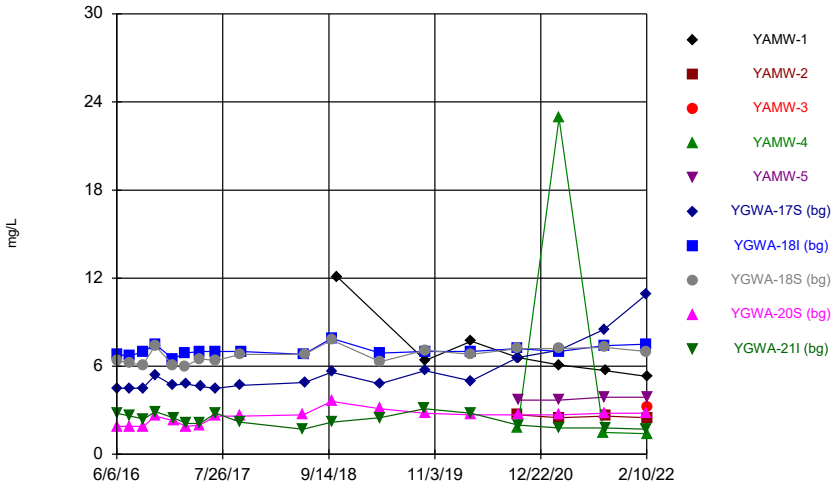
Time Series

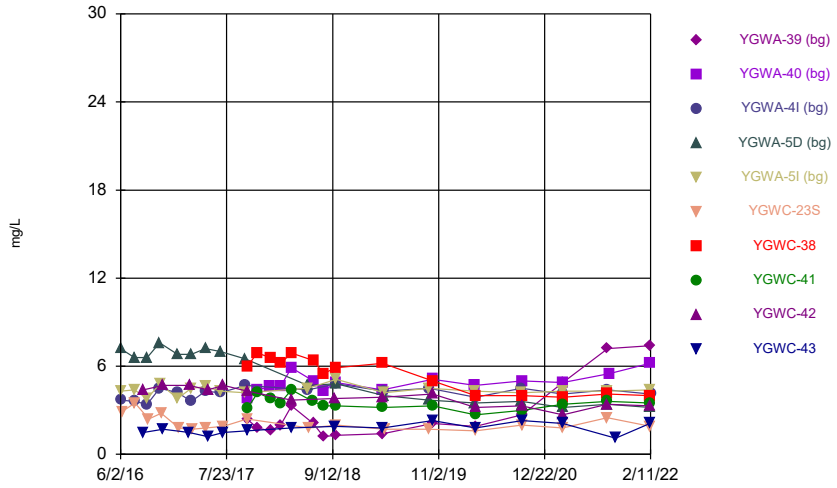


Constituent: Chloride Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

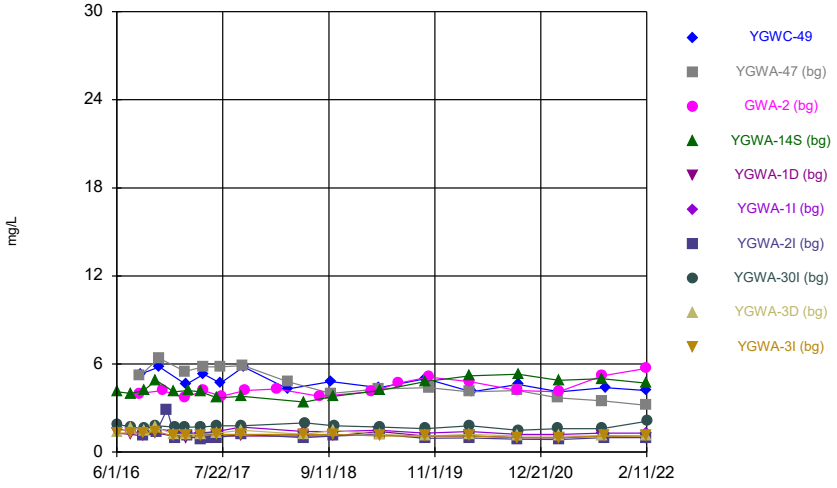


Constituent: Chloride Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

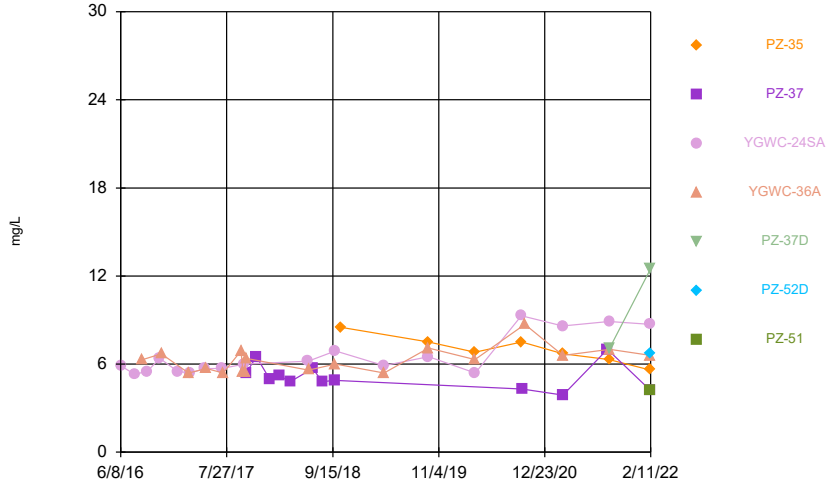


Constituent: Chloride Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

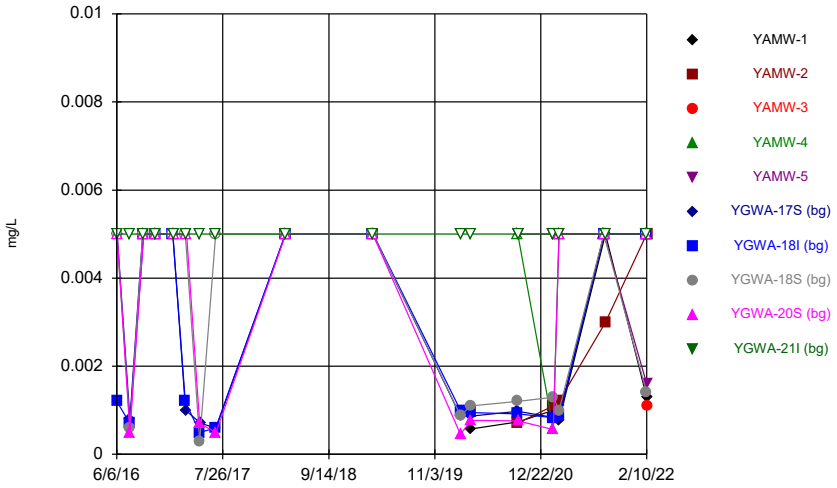


Constituent: Chloride Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

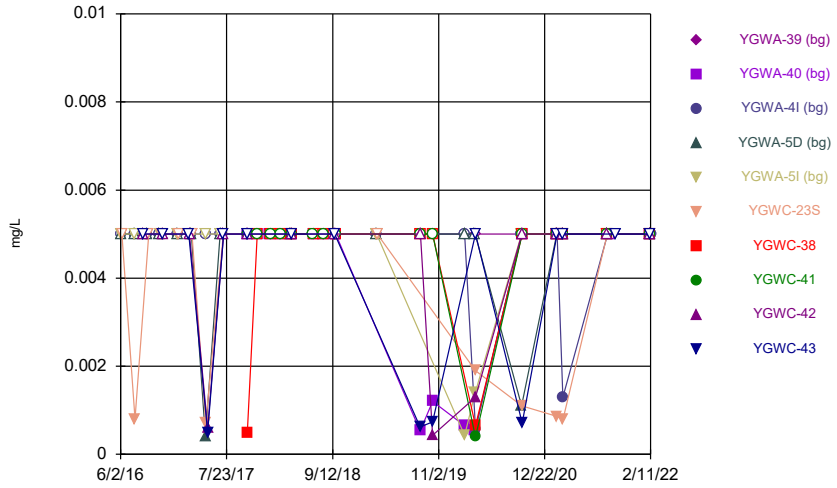
Time Series



Constituent: Chromium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

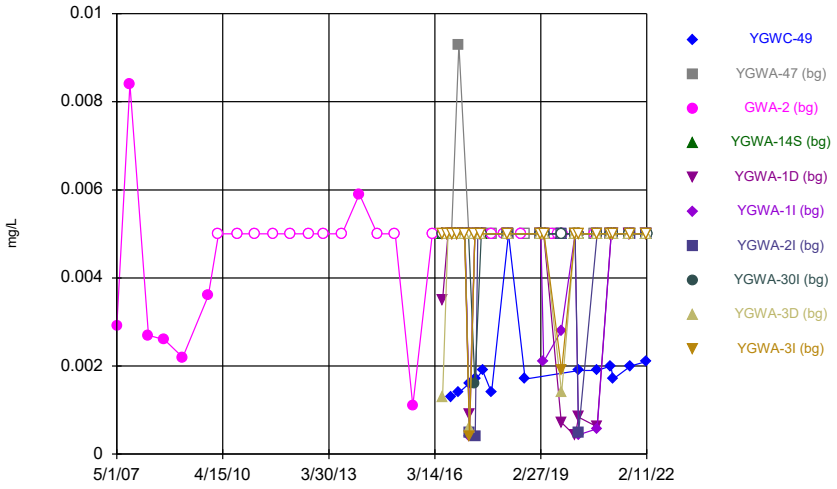
Time Series



Constituent: Chromium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

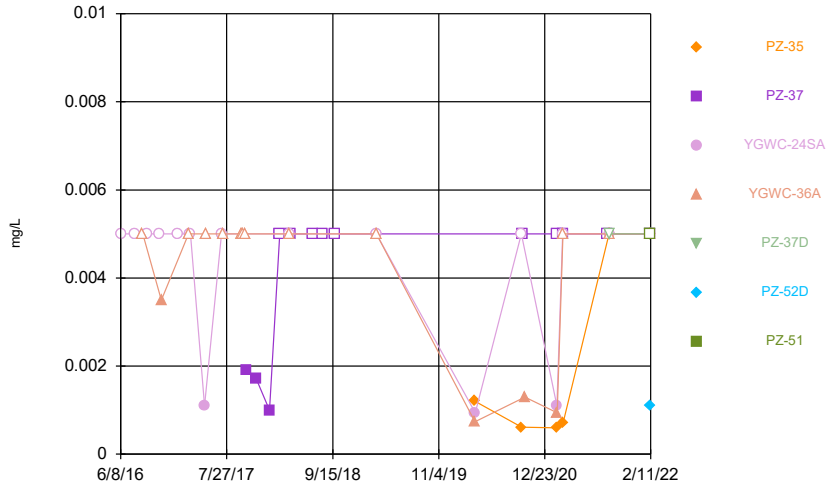
Time Series



Constituent: Chromium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

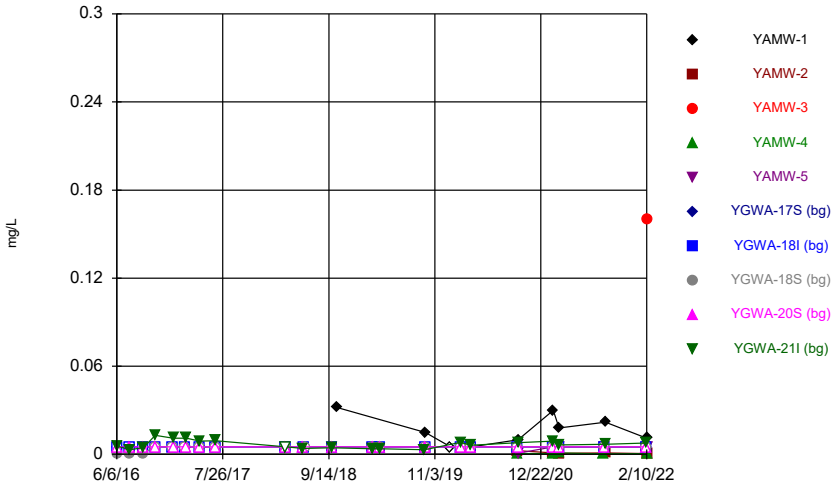
Time Series



Constituent: Chromium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

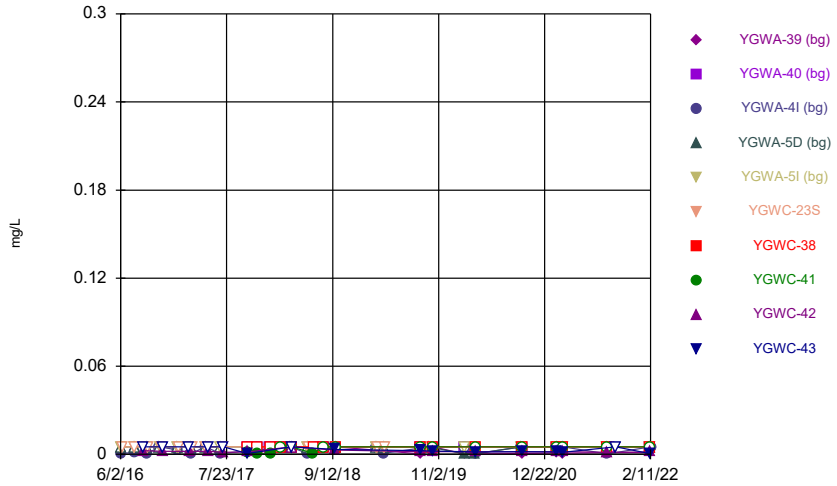
Time Series



Constituent: Cobalt Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

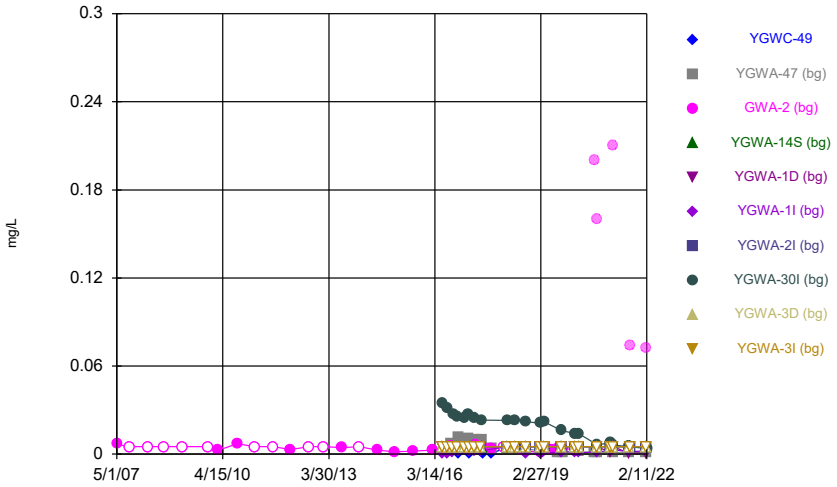
Time Series



Constituent: Cobalt Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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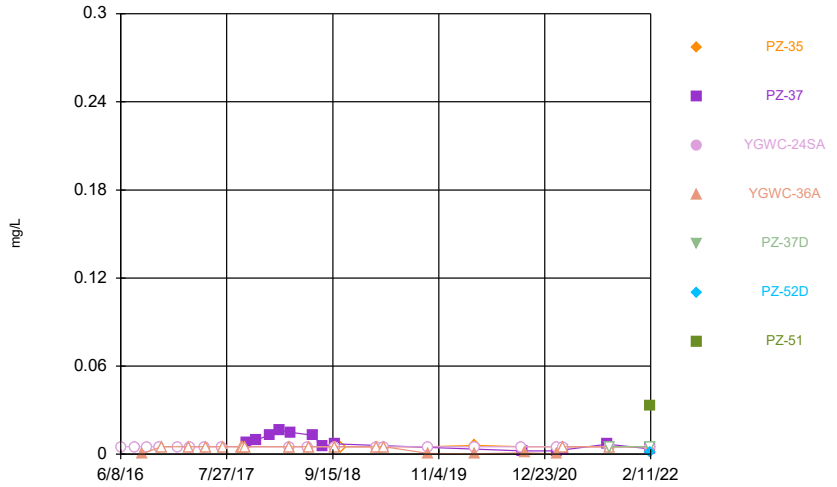
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

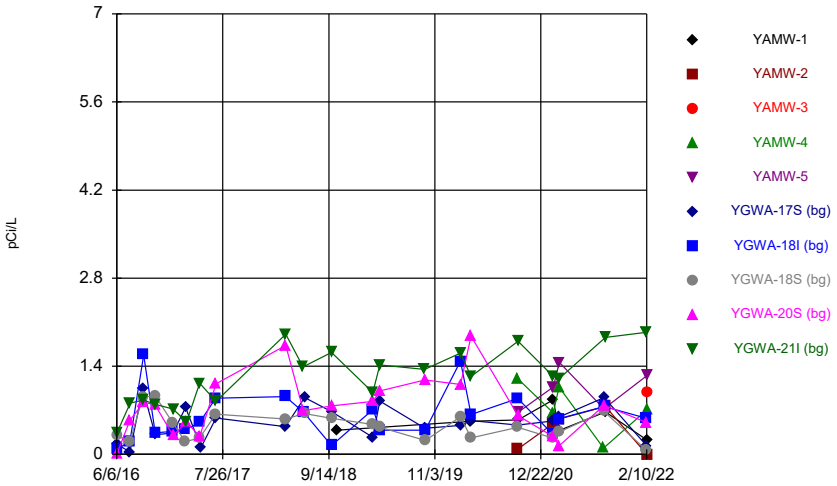
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

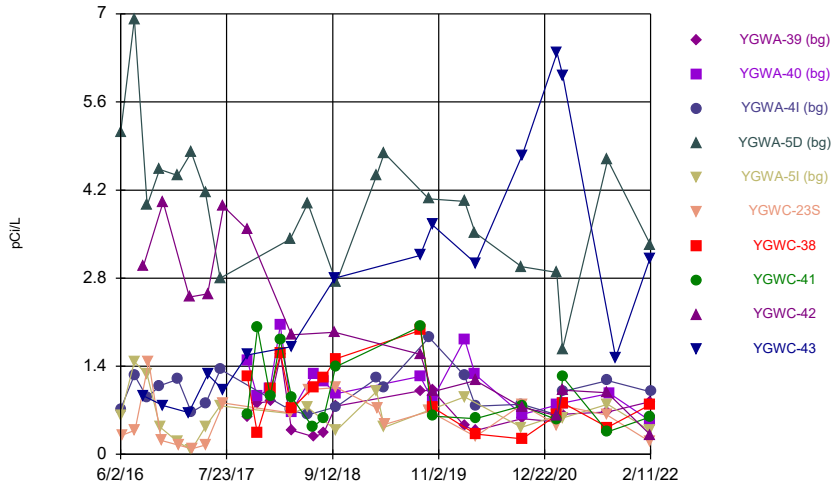
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

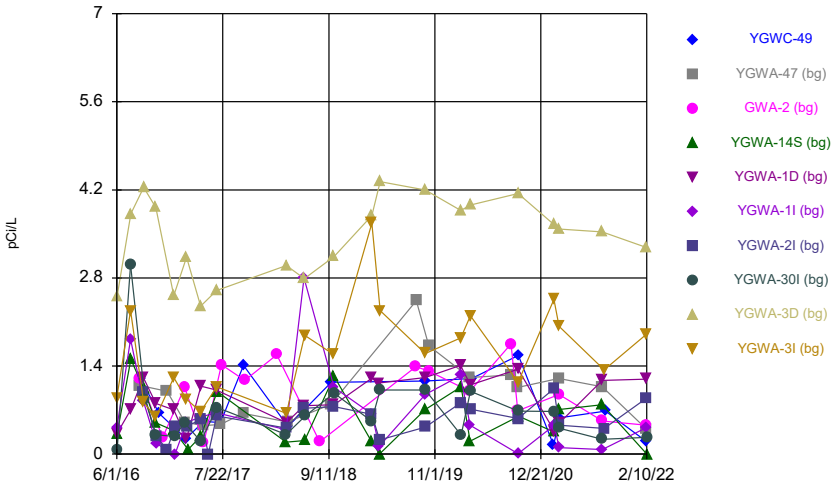
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

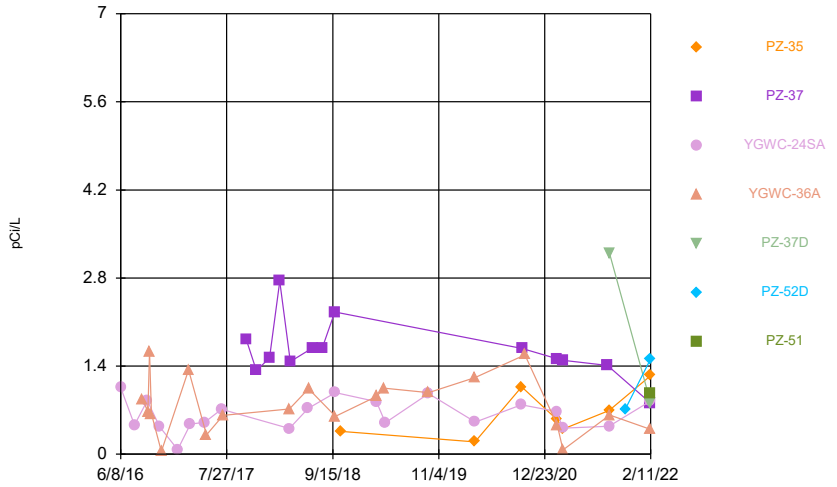
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

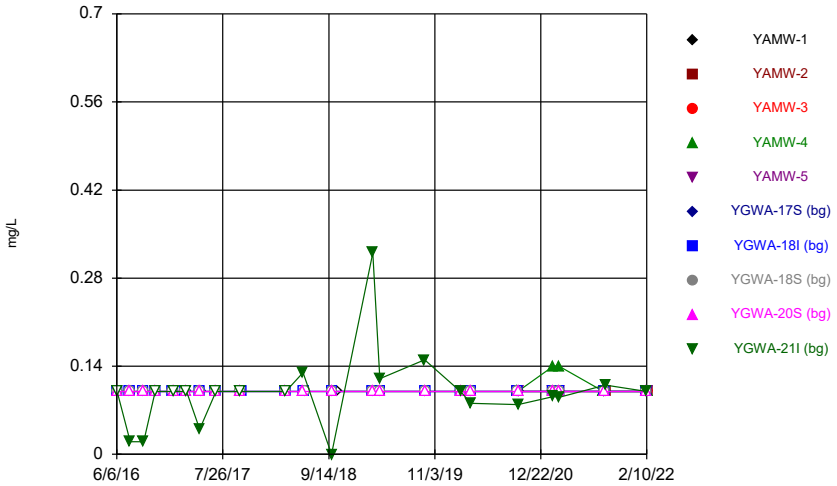
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

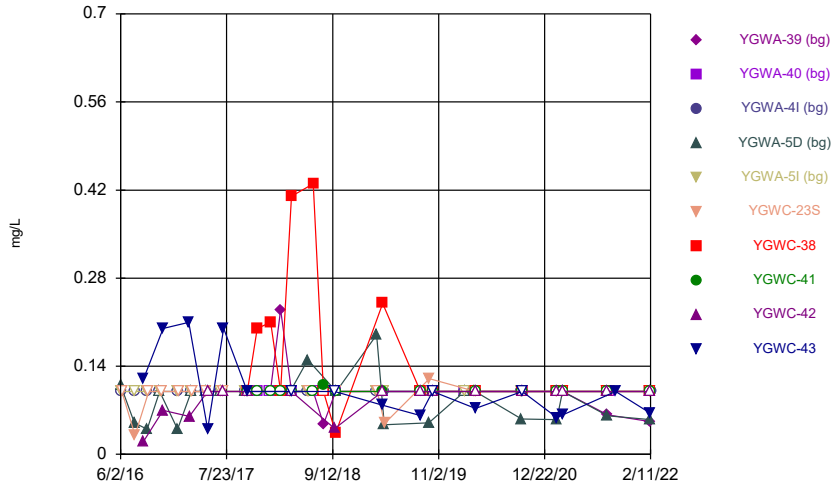
Time Series



Constituent: Fluoride Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

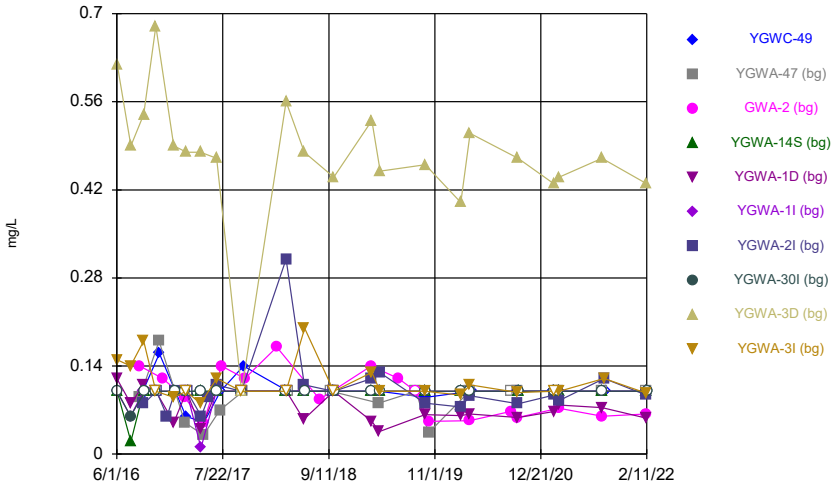
Time Series



Constituent: Fluoride Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

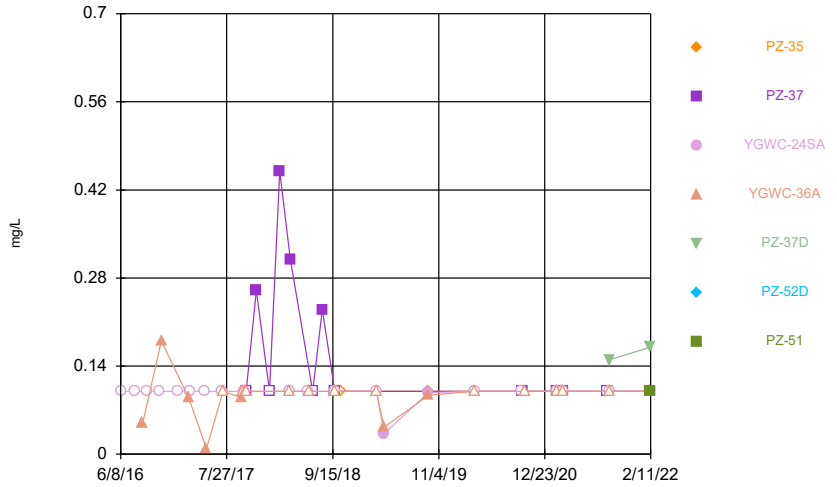
Time Series



Constituent: Fluoride Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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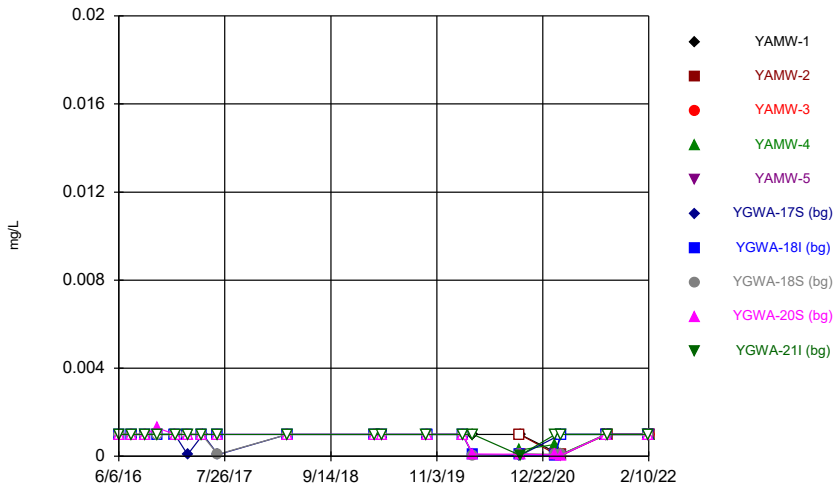
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

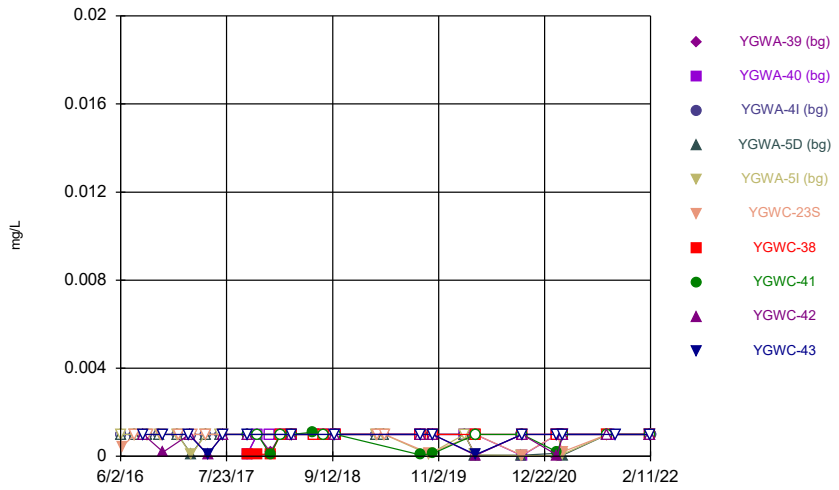
Time Series



Constituent: Lead Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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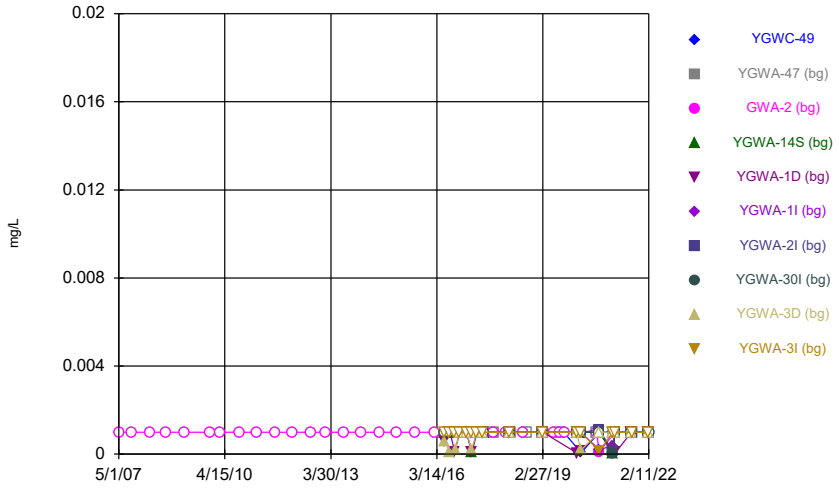
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

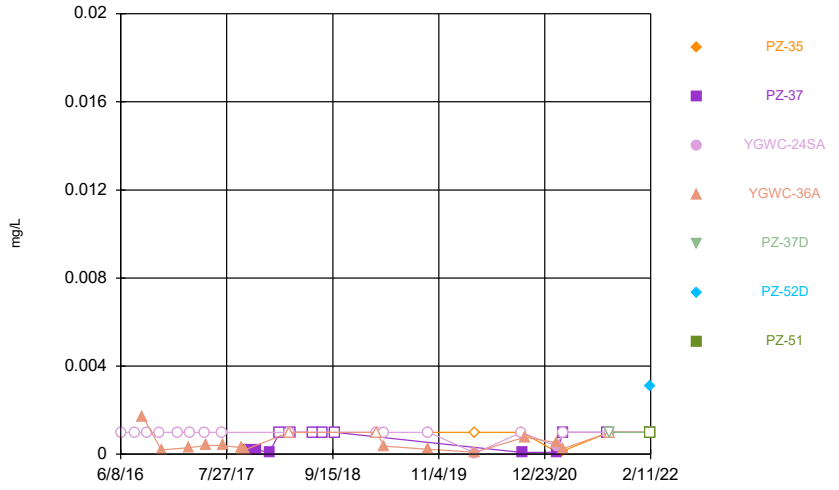
Time Series



Constituent: Lead Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
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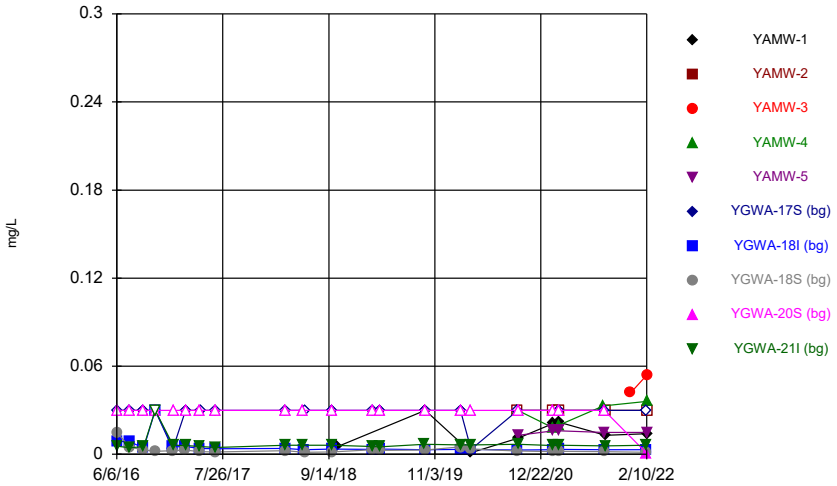
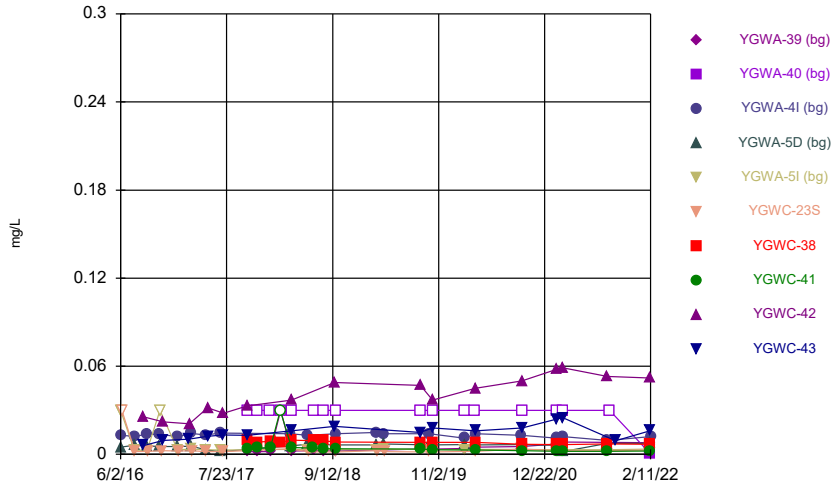
Time Series



Constituent: Lithium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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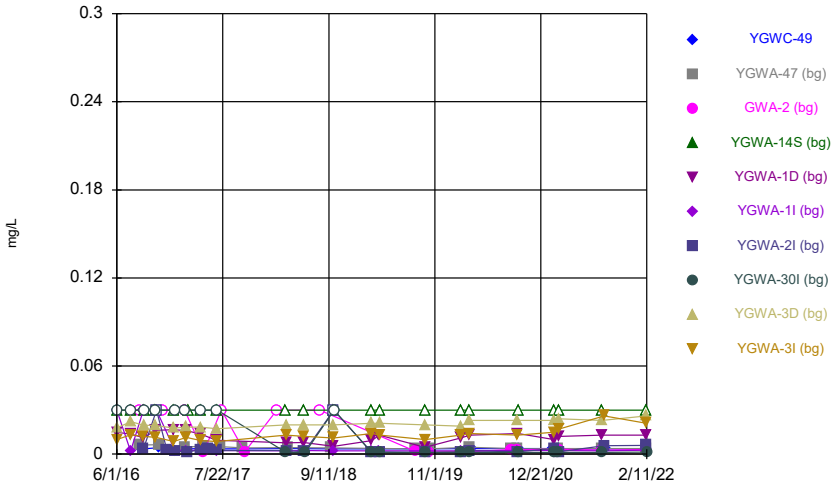
Time Series



Constituent: Lithium Analysis Run 4/19/2022 5:08 PM
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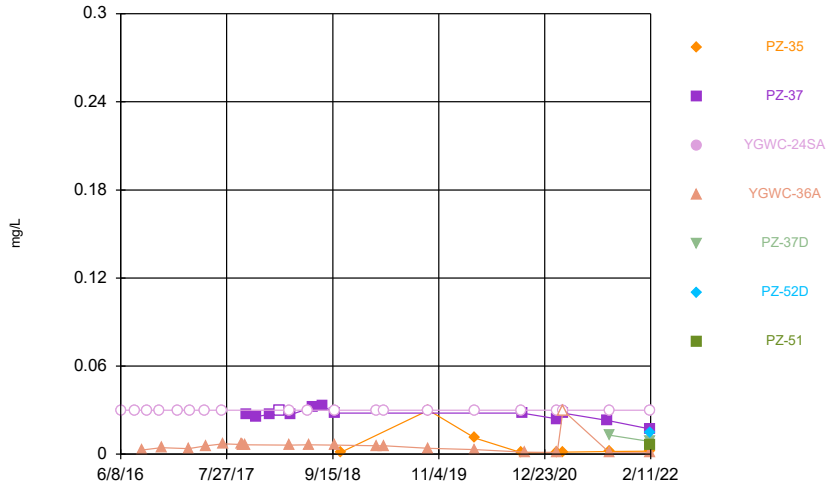
Time Series



Constituent: Lithium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
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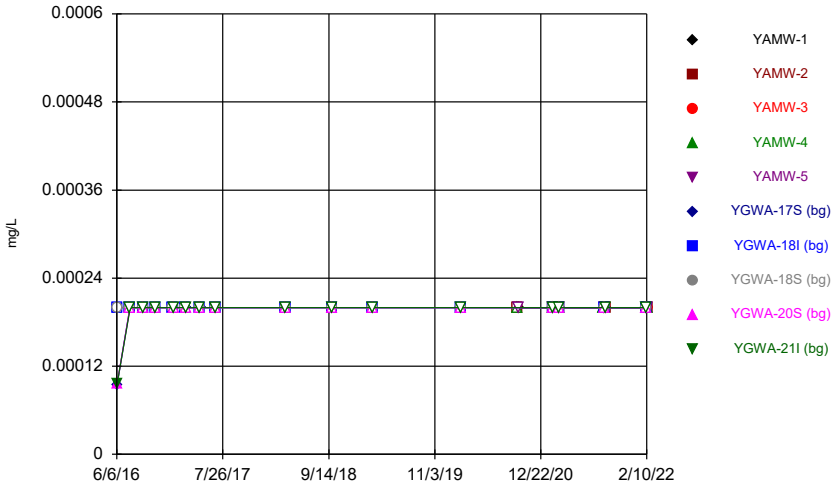
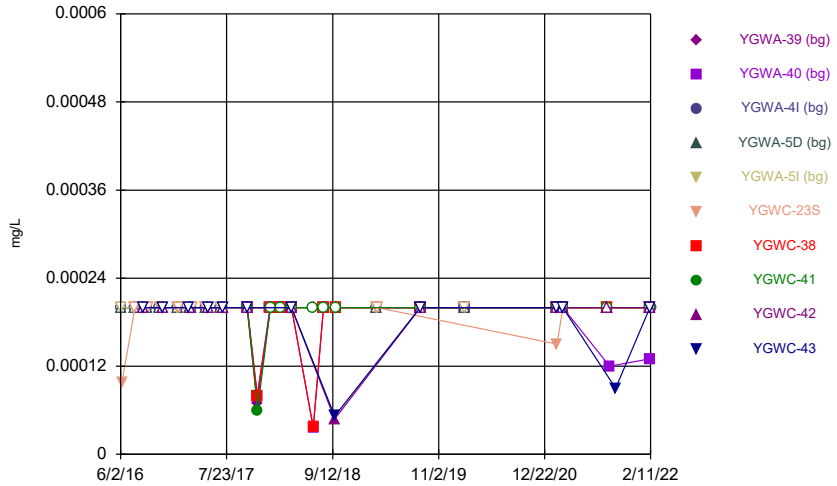
Time Series



Constituent: Mercury Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

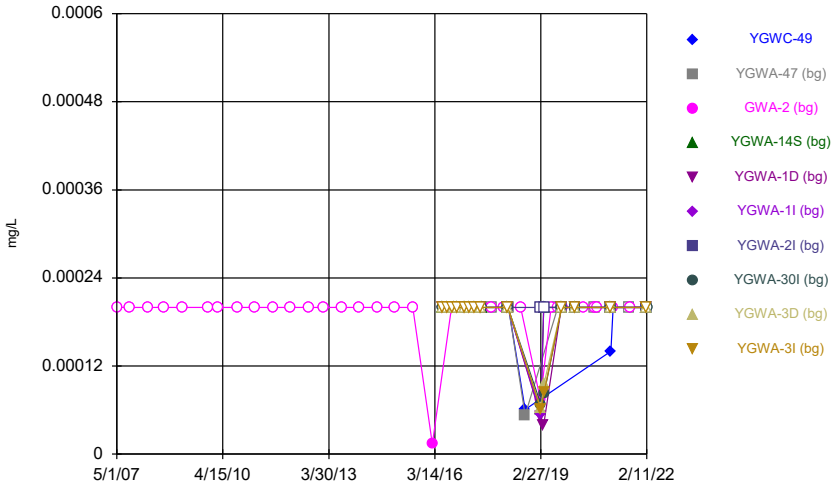
Time Series



Constituent: Mercury Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

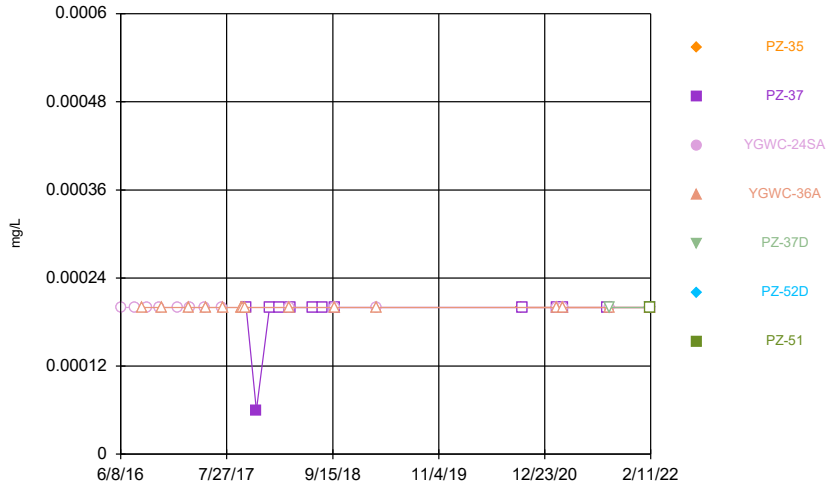
Time Series



Constituent: Mercury Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

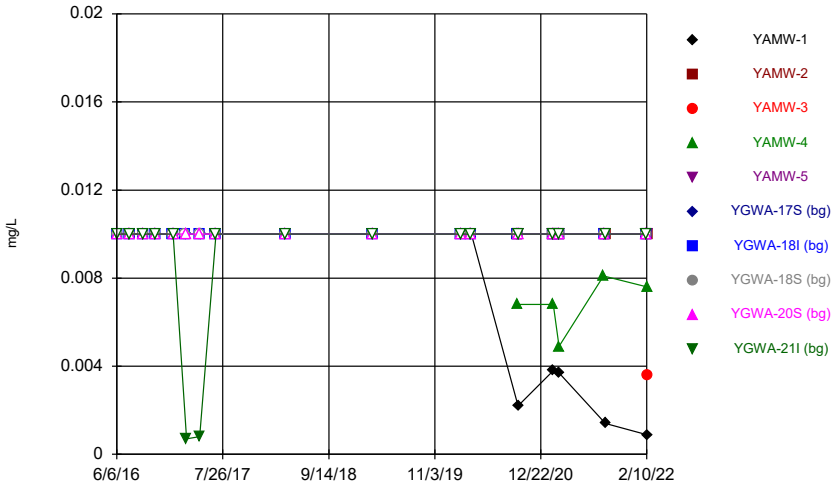
Time Series



Constituent: Mercury Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

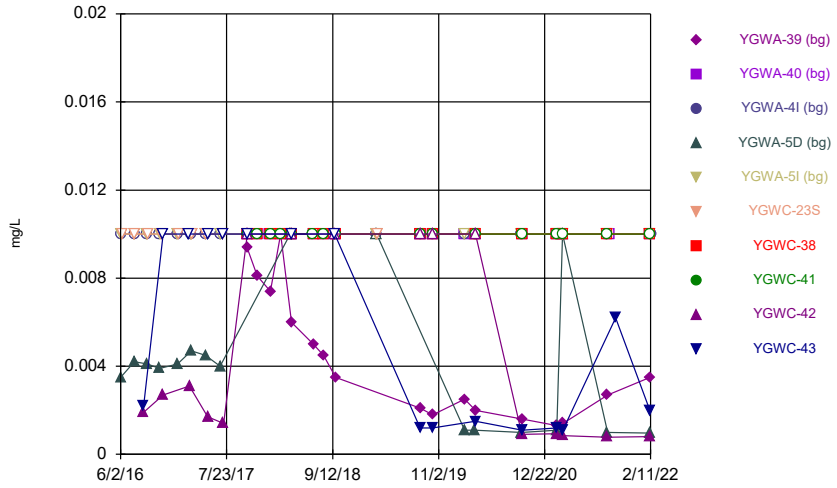
Time Series



Constituent: Molybdenum Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

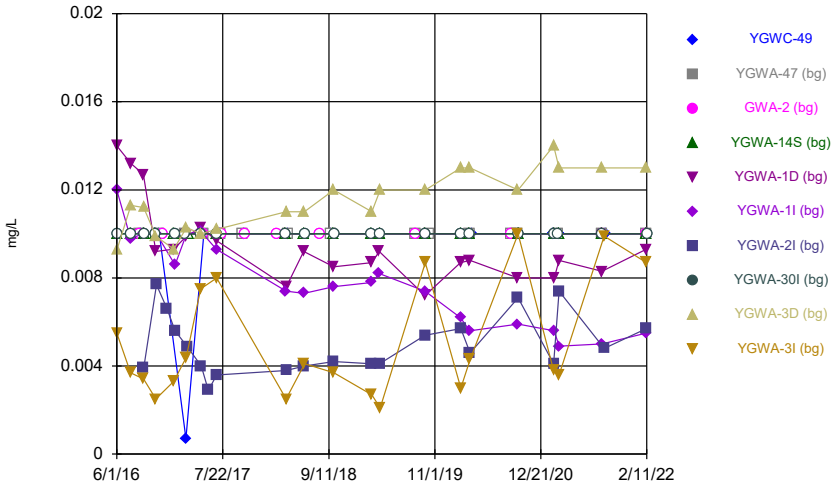
Time Series



Constituent: Molybdenum Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

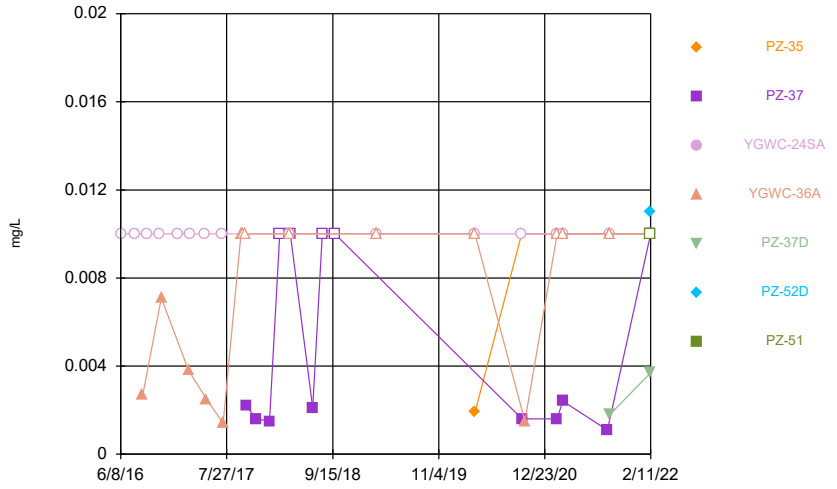
Time Series



Constituent: Molybdenum Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

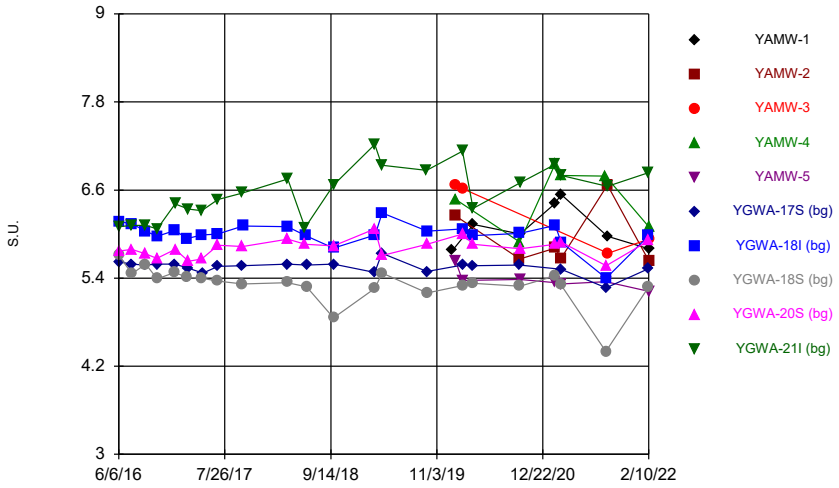
Time Series



Constituent: Molybdenum Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

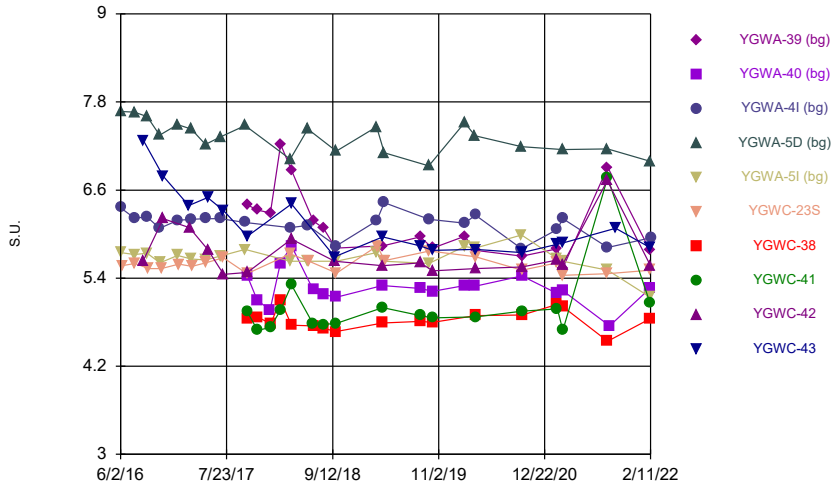


Constituent: pH Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

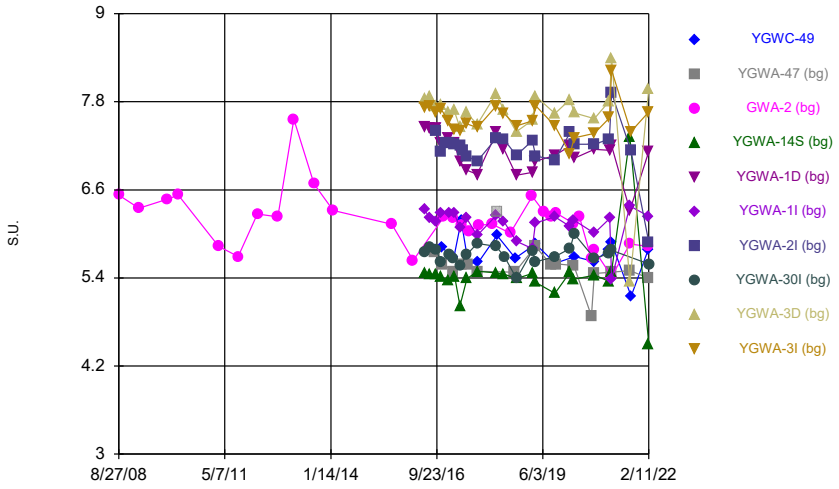


Constituent: pH Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

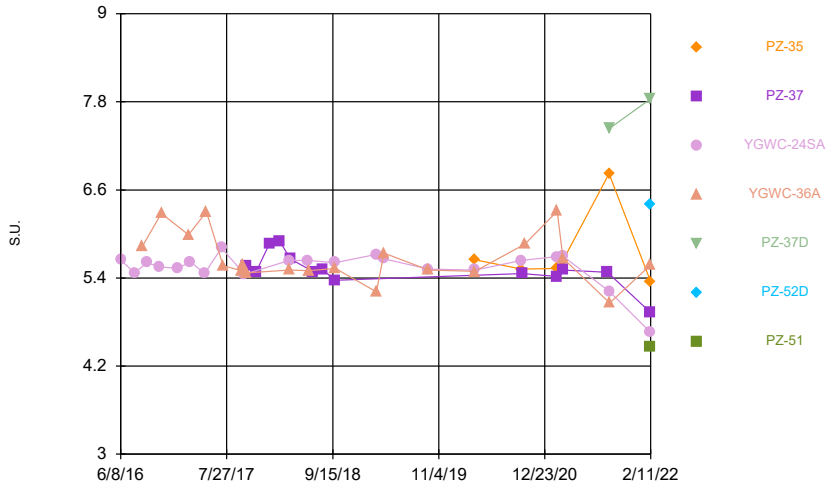


Constituent: pH Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

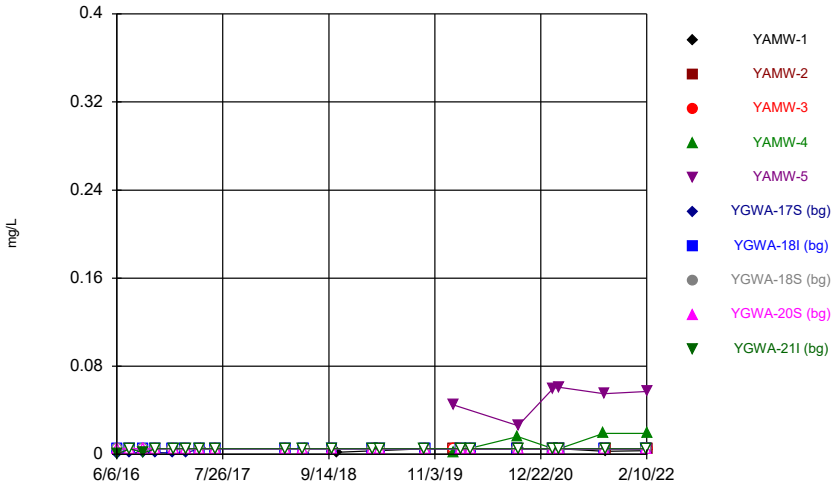


Constituent: pH Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

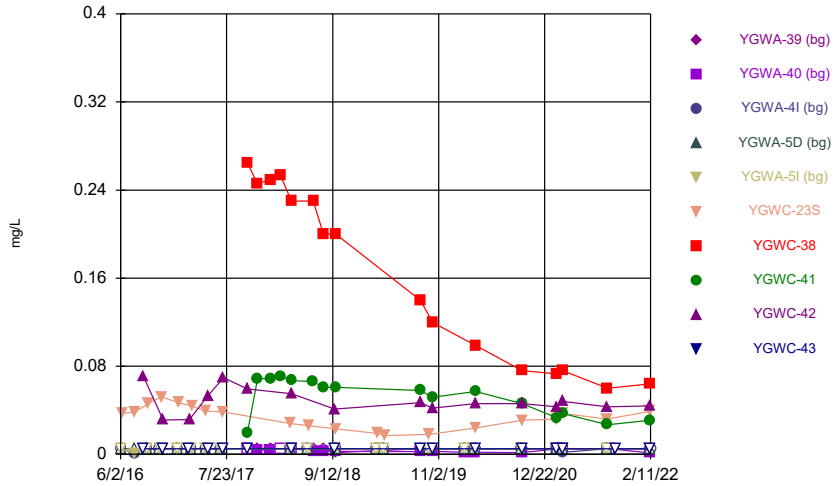
Time Series



Constituent: Selenium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

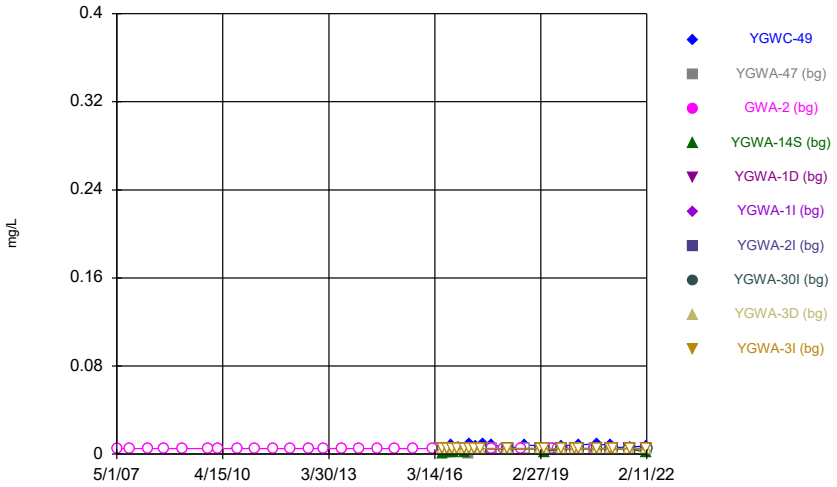
Time Series



Constituent: Selenium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

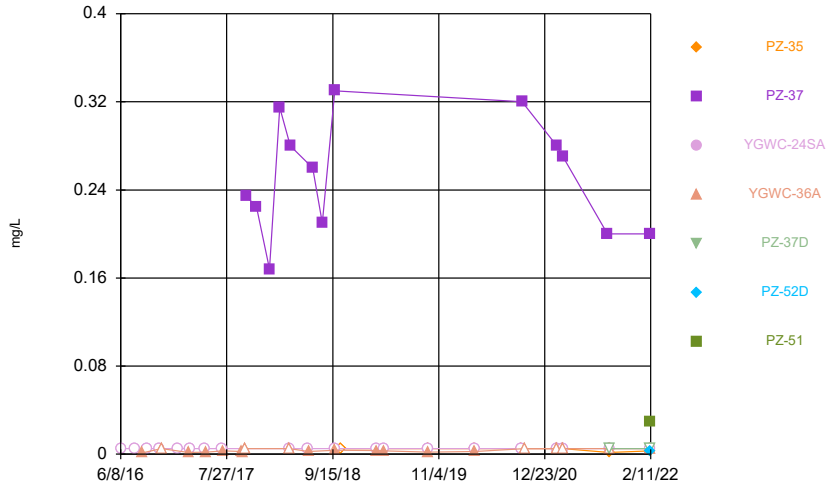
Time Series



Constituent: Selenium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

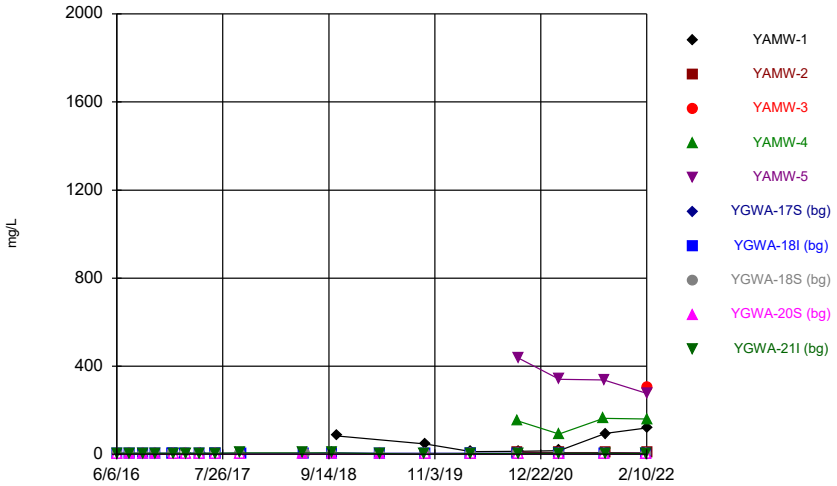
Time Series



Constituent: Selenium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

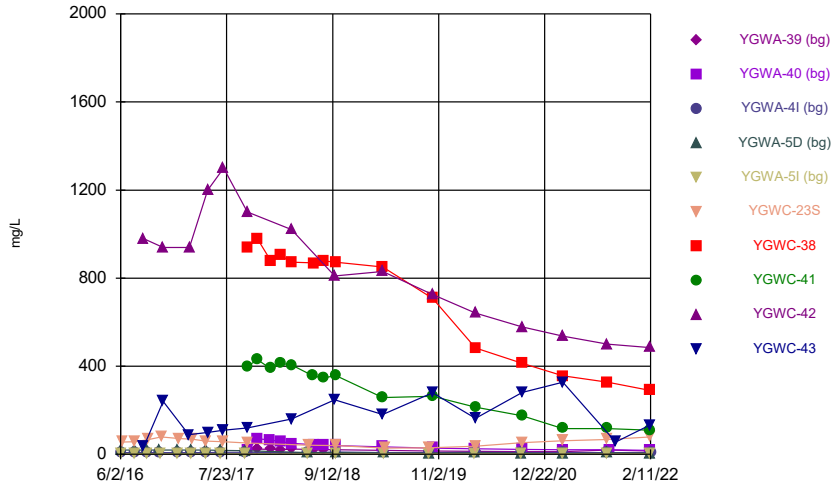
Time Series



Constituent: Sulfate Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

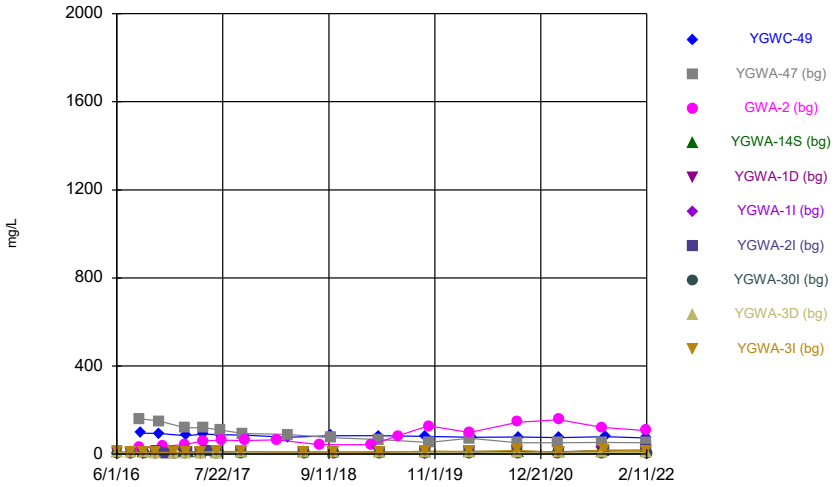
Time Series



Constituent: Sulfate Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

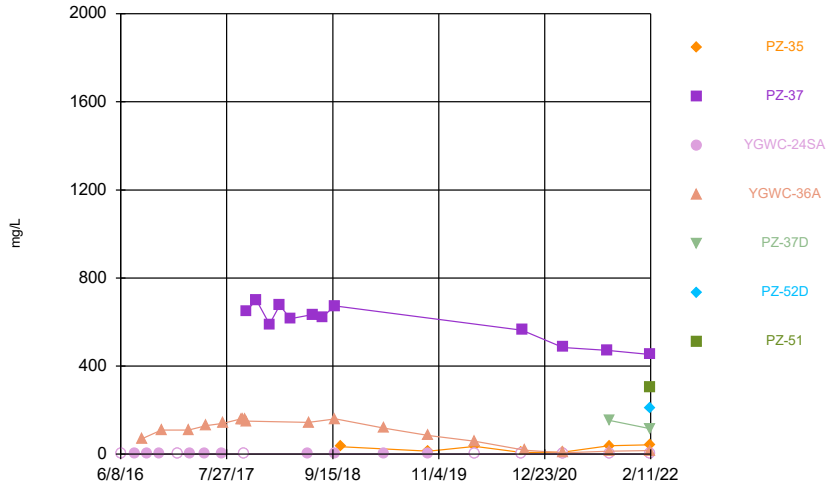
Time Series



Constituent: Sulfate Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

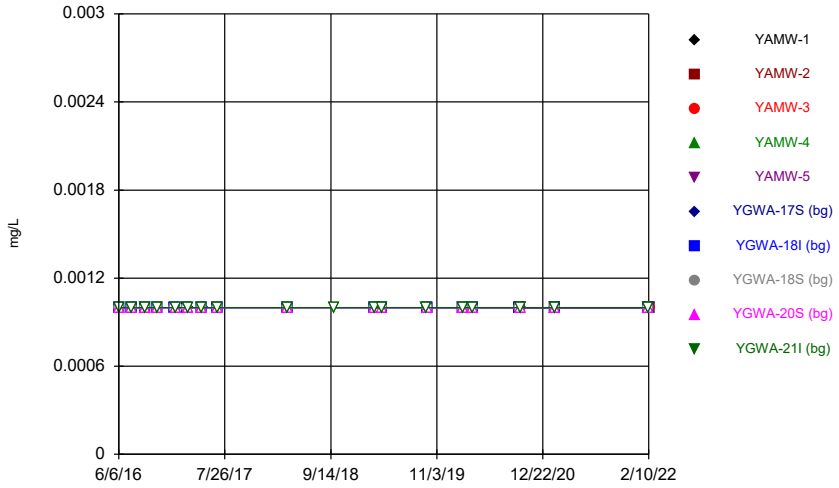
Time Series



Constituent: Sulfate Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

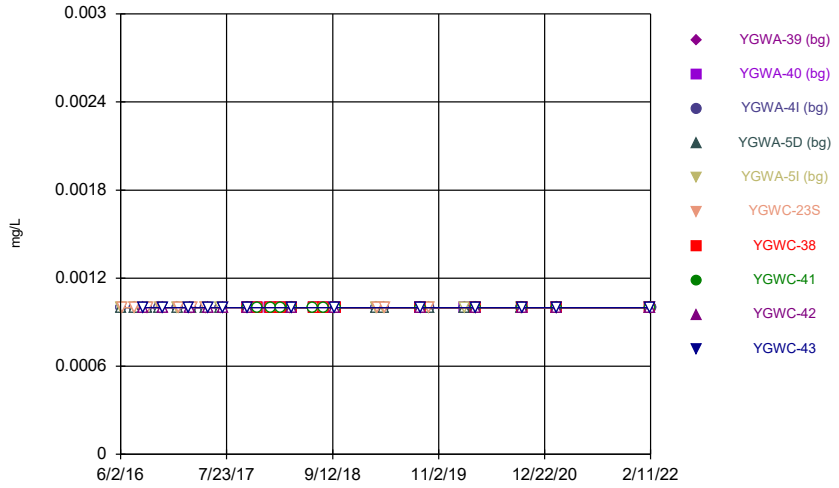
Time Series



Constituent: Thallium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

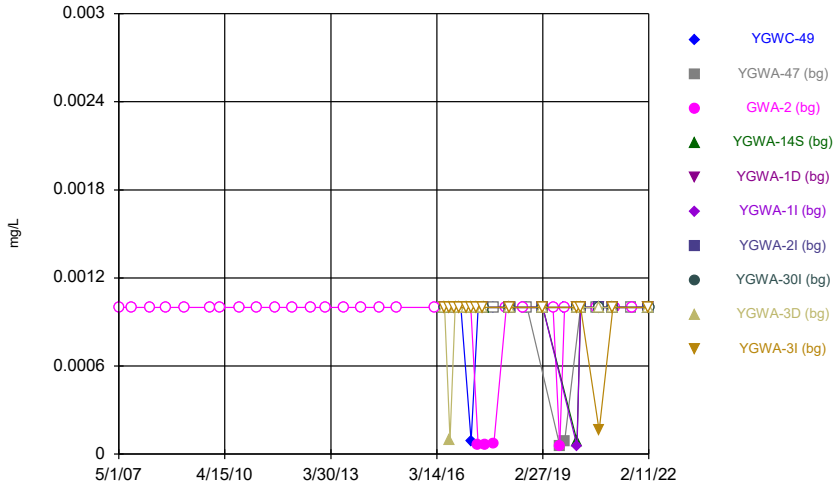
Time Series



Constituent: Thallium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

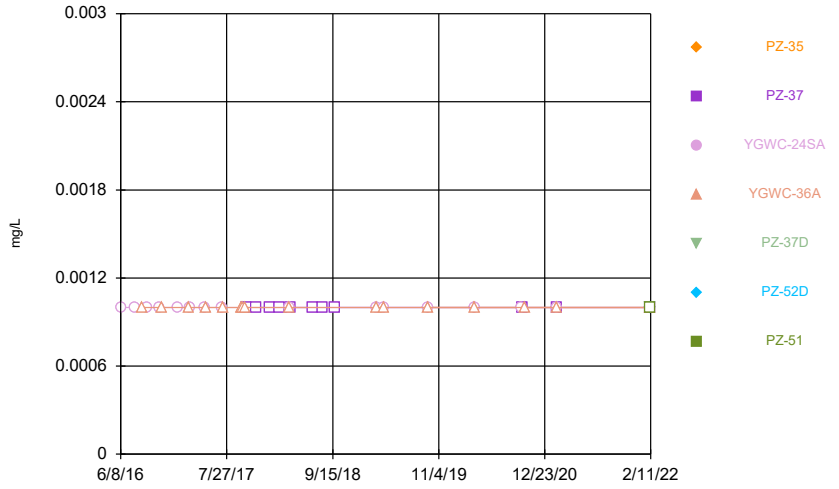
Time Series



Constituent: Thallium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

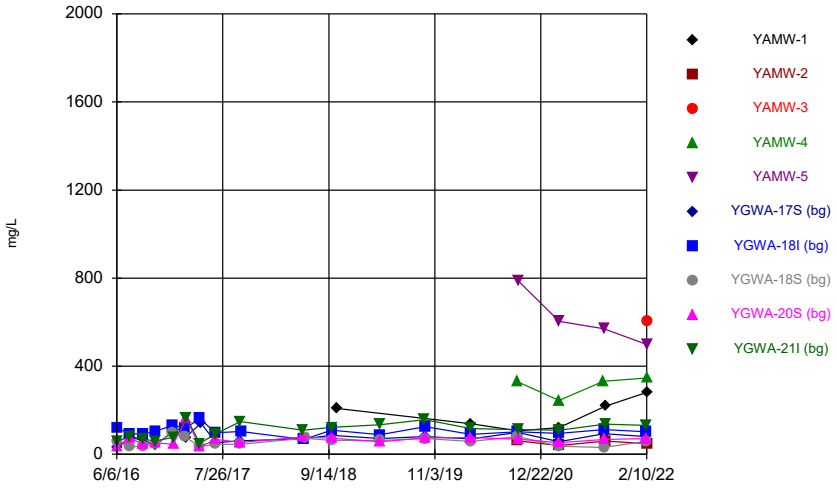
Time Series



Constituent: Thallium Analysis Run 4/19/2022 5:09 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

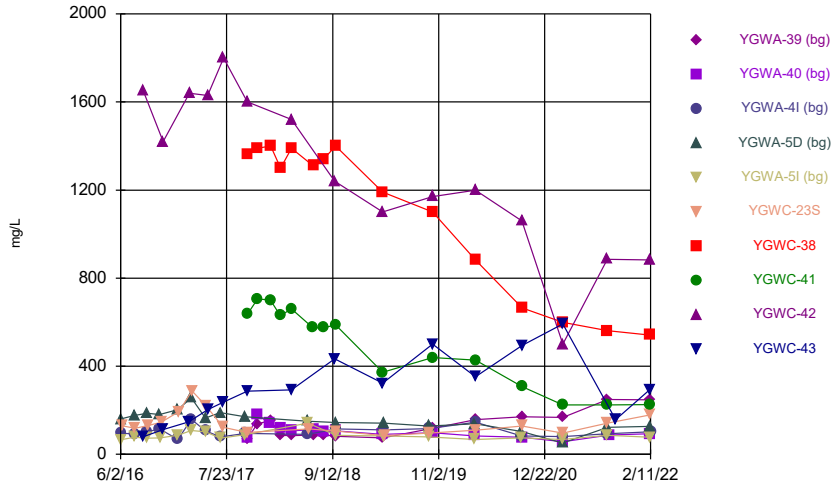


Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series



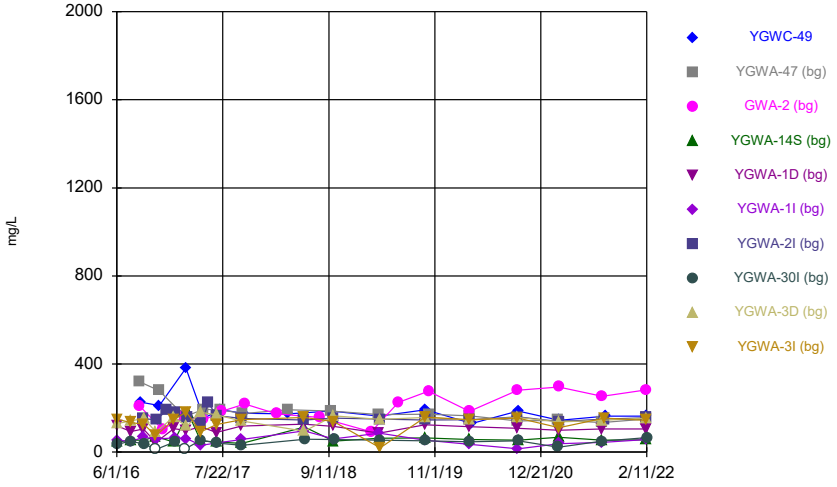
Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

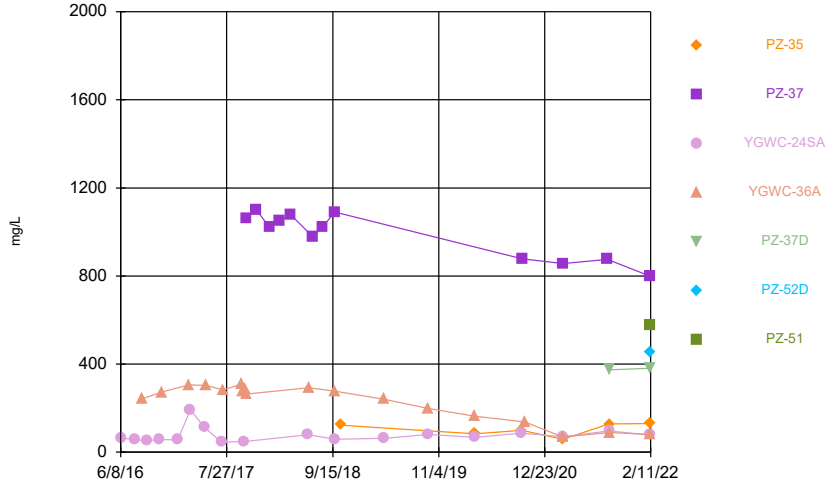


Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.003	<0.003	
6/7/2016						<0.003			<0.003
7/27/2016						<0.003	0.0005 (J)	<0.003	<0.003
7/28/2016									
9/16/2016						<0.003		<0.003	
9/19/2016							<0.003		<0.003
11/2/2016									<0.003
11/3/2016						<0.003	<0.003	<0.003	
1/11/2017						<0.003	<0.003	<0.003	
1/13/2017									<0.003
3/1/2017							<0.003	<0.003	
3/2/2017						<0.003			
3/6/2017									<0.003
4/26/2017							<0.003	<0.003	<0.003
5/2/2017						<0.003			
6/28/2017							<0.003	<0.003	
6/29/2017						<0.003			<0.003
3/28/2018						<0.003	<0.003	<0.003	
3/29/2018									<0.003
3/5/2019						<0.003		<0.003	<0.003
3/6/2019							<0.003		
4/2/2019						<0.003			
4/3/2019							<0.003	<0.003	<0.003
9/24/2019									
9/25/2019						<0.003			<0.003
9/26/2019	<0.003						0.00056 (J)	<0.003	
2/11/2020						<0.003	<0.003	<0.003	
2/12/2020									<0.003
3/24/2020						<0.003	<0.003	<0.003	<0.003
3/25/2020	<0.003								
9/23/2020		<0.003		0.00065 (J)		<0.003	<0.003	<0.003	
9/24/2020	<0.003				0.00033 (J)				<0.003
2/9/2021	0.00037 (J)	<0.003		0.0011 (J)	<0.003		<0.003	<0.003	0.00032 (J)
3/3/2021	0.025	<0.003		0.00062 (J)		<0.003	<0.003	0.00067 (J)	<0.003
3/4/2021					<0.003				
8/25/2021				<0.003					
8/26/2021					<0.003			<0.003	
8/27/2021						<0.003	<0.003		<0.003
9/1/2021	0.0024 (J)	<0.003							
2/9/2022						<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.003
7/27/2016	
7/28/2016	<0.003
9/16/2016	
9/19/2016	0.001 (J)
11/2/2016	
11/3/2016	<0.003
1/11/2017	
1/13/2017	<0.003
3/1/2017	
3/2/2017	
3/6/2017	0.0005 (J)
4/26/2017	<0.003
5/2/2017	
6/28/2017	
6/29/2017	<0.003
3/28/2018	
3/29/2018	<0.003
3/5/2019	0.0011 (J)
3/6/2019	
4/2/2019	0.0011 (J)
4/3/2019	
9/24/2019	0.0035
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0015 (J)
3/24/2020	0.0017 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0047
2/9/2021	0.0013 (J)
3/3/2021	
3/4/2021	0.0014 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.003
2/9/2022	<0.003
2/10/2022	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.003	<0.003	<0.003				
6/7/2016						<0.003			
7/26/2016			0.0003 (J)	<0.003	<0.003				
7/28/2016						<0.003			
8/30/2016									<0.003
8/31/2016									
9/14/2016			<0.003	<0.003	<0.003				
9/20/2016						<0.003			
11/2/2016			<0.003	<0.003					
11/4/2016					<0.003				
11/8/2016						<0.003			
11/16/2016									<0.003
1/12/2017				<0.003	<0.003				
1/13/2017			<0.003						
1/16/2017						<0.003			
2/24/2017									
2/27/2017									<0.003
3/6/2017			<0.003						
3/7/2017				<0.003	<0.003				
3/9/2017						<0.003			
5/1/2017			<0.003	<0.003					
5/2/2017					<0.003	<0.003			
5/10/2017									<0.003
6/27/2017				<0.003	<0.003				
6/29/2017			<0.003						
7/10/2017						<0.003			
7/11/2017									<0.003
10/11/2017	0.0006 (J)								
10/12/2017		<0.003					<0.003	<0.003	<0.003
11/20/2017	<0.003	<0.003					<0.003		
11/21/2017								<0.003	
1/10/2018		<0.003							
1/11/2018	<0.003							<0.003	
1/12/2018							<0.003		
2/19/2018		<0.003						<0.003	
2/20/2018	<0.003						<0.003		
3/29/2018			<0.003	<0.003	<0.003				
3/30/2018						<0.003			
4/3/2018	<0.003	<0.003					<0.003	<0.003	
4/4/2018									<0.003
6/27/2018								<0.003	
6/28/2018	<0.003	<0.003					<0.003		
8/7/2018	<0.003	<0.003					0.0015 (J)	<0.003	
9/20/2018									<0.003
9/24/2018	<0.003	<0.003					<0.003	<0.003	
3/4/2019			<0.003	<0.003	<0.003				
3/6/2019						<0.003			
4/3/2019			<0.003	<0.003	<0.003				
4/4/2019						<0.003			
8/21/2019	<0.003	<0.003							
8/22/2019							<0.003	<0.003	<0.003
9/24/2019				<0.003	<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.003						
9/27/2019						0.00029 (J)			
2/12/2020	<0.003	<0.003	<0.003	<0.003	<0.003				
3/24/2020		<0.003		<0.003	<0.003				
3/25/2020	0.0014 (J)		<0.003				0.00063 (J)	<0.003	<0.003
3/26/2020						<0.003			
9/22/2020			<0.003	<0.003	<0.003				
9/24/2020	<0.003	<0.003				0.00085 (J)			<0.003
9/25/2020							0.00061 (J)	<0.003	
2/8/2021				<0.003	<0.003				
2/9/2021			<0.003			0.00052 (J)	0.00031 (J)		
2/10/2021	<0.003	<0.003						0.0014 (J)	0.00053 (J)
3/2/2021				<0.003	<0.003				
3/3/2021			<0.003						
3/4/2021	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
8/25/2021						<0.003			<0.003
8/26/2021	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	
9/3/2021		<0.003							
9/27/2021									
2/8/2022	<0.003	<0.003						<0.003	
2/10/2022				<0.003	<0.003	<0.003	<0.003		<0.003
2/11/2022			<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.003
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.003
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.003
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.003
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.003
10/11/2017	
10/12/2017	<0.003
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.003
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.003
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.003
8/22/2019	
9/24/2019	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	0.00031 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.003
2/8/2021	
2/9/2021	<0.003
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.003
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.003
2/8/2022	<0.003
2/10/2022	
2/11/2022	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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	<0.003
7/25/2016						<0.003		<0.003	
7/26/2016				0.0005 (J)	0.001 (J)				0.002 (J)
8/30/2016		0.0028 (J)							
8/31/2016			<0.003						
9/1/2016	<0.003								
9/13/2016					0.001 (J)	<0.003			
9/14/2016							<0.003		
9/15/2016				<0.003					0.0027 (J)
9/19/2016								<0.003	
11/1/2016					0.0015 (J)			<0.003	<0.003
11/2/2016				<0.003					
11/4/2016						<0.003	<0.003		
11/14/2016		<0.003							
11/15/2016	<0.003								
11/28/2016			0.0014 (J)						
12/15/2016							0.0012 (J)		
1/10/2017				<0.003					
1/11/2017					<0.003				<0.003
1/16/2017						<0.003	<0.003	<0.003	
2/21/2017								<0.003	
2/22/2017			<0.003						
2/24/2017		<0.003							
2/27/2017	0.0011 (J)								
3/1/2017									
3/2/2017					0.0004 (J)	<0.003			0.0008 (J)
3/3/2017							<0.003		
3/8/2017				<0.003					
4/26/2017				<0.003				<0.003	<0.003
4/27/2017					0.0004 (J)	0.0017 (J)			
4/28/2017							0.0015 (J)		
5/8/2017		0.0004 (J)	<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.003								
5/26/2017							0.0005 (J)		
6/27/2017					<0.003	<0.003			
6/28/2017							<0.003		<0.003
6/30/2017				<0.003				<0.003	
7/11/2017		0.0006 (J)							
7/13/2017	<0.003								
7/17/2017			<0.003						
10/10/2017		<0.003							
10/11/2017	<0.003								
10/16/2017			<0.003						
2/19/2018			<0.003						
3/27/2018				<0.003		<0.003		<0.003	
3/28/2018							<0.003		<0.003
3/29/2018					<0.003				
4/2/2018		<0.003							
4/4/2018	<0.003								
8/6/2018			<0.003						
9/19/2018		<0.003							
9/20/2018	<0.003								
2/25/2019			<0.003						
2/26/2019				<0.003				<0.003	
2/27/2019					<0.003	<0.003	<0.003		<0.003
6/12/2019			<0.003						
8/19/2019			<0.003						
8/20/2019		<0.003							
9/26/2019	<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	<0.003
3/17/2020			<0.003						
3/18/2020				<0.003		0.0004 (J)			
3/19/2020					<0.003		0.0003 (J)	<0.003	0.00064 (J)
3/25/2020	0.00053 (J)								
8/26/2020			0.00042 (J)						
8/27/2020		0.00048 (J)							
9/22/2020		<0.003	0.00044 (J)						
9/23/2020					<0.003	<0.003	<0.003		<0.003
9/24/2020	<0.003							<0.003	
9/25/2020				<0.003					
2/9/2021	<0.003								
2/10/2021				<0.003			0.0013 (J)		<0.003
2/11/2021								<0.003	
2/12/2021					<0.003	<0.003			
3/1/2021		0.00048 (J)						<0.003	
3/2/2021			<0.003	<0.003					
3/3/2021					<0.003	<0.003	<0.003		<0.003
3/4/2021	<0.003								
8/19/2021		<0.003		<0.003	<0.003	<0.003		<0.003	<0.003
8/20/2021			<0.003						
8/27/2021							<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/1/2021	<0.003								
2/8/2022	<0.003	<0.003	<0.003						
2/9/2022					<0.003	<0.003	<0.003		0.0018 (J)
2/10/2022				<0.003					
2/11/2022								<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.003
6/2/2016	
7/25/2016	<0.003
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.003
9/15/2016	
9/19/2016	
11/1/2016	<0.003
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.003
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.003
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.003
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.003
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.003
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.003
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.003
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.003
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.003
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.003
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.003
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/1/2021	
2/8/2022	
2/9/2022	<0.003
2/10/2022	
2/11/2022	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.003				
8/1/2016			<0.003				
9/2/2016				<0.003			
9/20/2016			0.0009 (J)				
11/8/2016			<0.003				
11/14/2016				0.0014 (J)			
1/17/2017			<0.003				
2/28/2017				0.0004 (J)			
3/8/2017			<0.003				
5/2/2017			<0.003				
5/9/2017				<0.003			
7/7/2017			<0.003				
7/13/2017				<0.003			
9/22/2017				<0.003			
9/29/2017				<0.003			
10/6/2017				<0.003			
10/12/2017		<0.003					
11/21/2017		<0.003					
1/11/2018		<0.003					
2/20/2018		<0.003					
3/30/2018			<0.003	<0.003			
4/3/2018		<0.003					
6/29/2018		<0.003					
8/6/2018		<0.003					
9/24/2018		<0.003					
3/5/2019			<0.003				
3/6/2019				0.0011 (J)			
4/4/2019			<0.003	0.0041			
9/26/2019	<0.003		<0.003	0.0065			
3/25/2020	<0.003			0.0011 (J)			
3/26/2020			<0.003				
9/23/2020			<0.003				
9/24/2020	<0.003						
9/25/2020		0.0014 (J)					
10/7/2020				<0.003			
2/9/2021		0.00035 (J)	<0.003				
2/10/2021	<0.003			0.028			
3/3/2021			<0.003				
3/4/2021	0.00039 (J)	<0.003		0.0015 (J)			
8/25/2021		<0.003					
9/1/2021	<0.003		<0.003				
9/3/2021				0.0016 (J)	<0.003		
2/10/2022	<0.003	<0.003	<0.003				<0.003
2/11/2022				0.0023 (J)	<0.003	<0.003	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	<0.005	<0.005
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	0.00061 (J)	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							0.00066 (J)		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	<0.005								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
2/11/2020						0.0022 (J)	0.0014 (J)	0.0026 (J)	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		<0.005		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.0015 (J)				<0.005
2/9/2021	<0.005	<0.005		0.001 (J)	0.00095 (J)		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		0.00079 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	<0.005							
2/9/2022						0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)
2/10/2022	0.0023 (J)	<0.005	0.0038 (J)	0.0026 (J)	0.0024 (J)				

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Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.005
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	<0.005
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	0.0017 (J)
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	0.0015 (J)
6/5/2018	0.0013 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0022 (J)
10/16/2018	
3/5/2019	0.0013 (J)
3/6/2019	
4/2/2019	0.00096 (J)
4/3/2019	
9/24/2019	0.0026 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0025 (J)
3/24/2020	0.0013 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0014 (J)
2/9/2021	0.001 (J)
3/3/2021	
3/4/2021	0.00078 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	0.0036 (J)
2/10/2022	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	0.00071 (J)	<0.005				
6/7/2016						<0.005			
7/26/2016			<0.005	0.001 (J)	<0.005				
7/28/2016						<0.005			
8/30/2016									0.0023 (J)
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.0017 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									0.002 (J)
3/6/2017			<0.005						
3/7/2017				0.0012 (J)	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	<0.005			
5/10/2017									0.0022 (J)
6/27/2017				0.0019 (J)	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									0.003 (J)
10/11/2017	0.0009 (J)								
10/12/2017		<0.005					0.0023 (J)	0.0011 (J)	0.0031 (J)
11/20/2017	<0.005	<0.005					0.0008 (J)		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							0.001 (J)		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						0.00096 (J)		
3/29/2018			<0.005	0.0006 (J)	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					0.0015 (J)	0.00072 (J)	
4/4/2018									0.0023 (J)
6/6/2018				0.0013 (J)					
6/7/2018			0.00059 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00062 (J)	
6/28/2018	<0.005	<0.005					0.0017 (J)		
8/7/2018	<0.005	<0.005					0.00072 (J)	<0.005	
9/20/2018									0.0018 (J)
9/24/2018	<0.005	<0.005					0.0017 (J)	0.001 (J)	
9/26/2018			<0.005	0.0014 (J)	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						<0.005			
8/21/2019	0.00058 (J)	<0.005							
8/22/2019							0.00055 (J)	0.00036 (J)	0.00089 (J)
9/24/2019				0.00043 (J)	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	0.00063 (J)	<0.005					0.00057 (J)	0.00052 (J)	0.00078 (J)
2/12/2020	0.00058 (J)	0.0034 (J)	<0.005	0.0046 (J)	0.002 (J)				
3/24/2020		<0.005		0.00065 (J)	<0.005				
3/25/2020	0.0012 (J)		<0.005				0.00068 (J)	0.001 (J)	0.0013 (J)
3/26/2020						0.0012 (J)			
9/22/2020			<0.005	0.001 (J)	<0.005				
9/24/2020	<0.005	<0.005				<0.005			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	0.00098 (J)		
2/10/2021	<0.005	<0.005						<0.005	0.0016 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
8/25/2021						<0.005			0.0014 (J)
8/26/2021	<0.005		<0.005	0.0016 (J)	<0.005		0.0013 (J)	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	0.0034 (J)	0.003 (J)						0.0021 (J)	
2/10/2022				0.004 (J)	0.0016 (J)	0.0025 (J)	0.0017 (J)		0.0026 (J)
2/11/2022			0.0014 (J)						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.00099 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00051 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.0007 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	0.0022 (J)
2/10/2022	
2/11/2022	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	0.0016 (J)				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	<0.005								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	0.0017 (J)		
11/14/2016		<0.005							
11/15/2016	<0.005								
11/28/2016			<0.005						
12/15/2016							0.0023 (J)		
1/10/2017				<0.005					
1/11/2017					0.0017 (J)				<0.005
1/16/2017						<0.005	0.0018 (J)	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		<0.005							
2/27/2017	<0.005								
3/1/2017									
3/2/2017					0.0014 (J)	<0.005			<0.005
3/3/2017							0.0016 (J)		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					0.0018 (J)	<0.005			
4/28/2017							0.002 (J)		
5/8/2017		<0.005	<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.005								
5/26/2017							0.0005 (J)		
6/27/2017					0.0018 (J)	<0.005			
6/28/2017							0.0016 (J)		0.0007 (J)
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	<0.005								
7/17/2017			<0.005						
10/10/2017		0.0007 (J)							
10/11/2017	0.0006 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							0.0013 (J)		<0.005
3/29/2018					0.0017 (J)				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					0.0013 (J)				
6/6/2018						<0.005			
6/7/2018							0.00082 (J)		<0.005
6/8/2018				<0.005					
6/11/2018								<0.005	
8/6/2018			<0.005						
9/19/2018		0.00072 (J)							
9/20/2018	0.001 (J)								
10/1/2018				<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005
10/2/2018								<0.005	
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					0.0015 (J)	<0.005	0.001 (J)		<0.005
3/28/2019					0.00072 (J)	<0.005			
3/29/2019				<0.005			0.00063 (J)		
4/1/2019								<0.005	<0.005
6/12/2019			0.00038 (J)						
8/19/2019			0.00095 (J)						
8/20/2019		<0.005							
9/24/2019					0.0014 (J)	<0.005	<0.005		
9/25/2019				<0.005				<0.005	<0.005
9/26/2019	<0.005								
10/8/2019		<0.005	<0.005						
2/10/2020					0.0026 (J)	0.0005 (J)			
2/11/2020							0.0044 (J)		
2/12/2020				<0.005				0.0032 (J)	0.0038 (J)
3/17/2020		<0.005	<0.005						
3/18/2020				<0.005		<0.005			
3/19/2020					0.00095 (J)		0.00066 (J)	<0.005	<0.005
3/25/2020	0.00086 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020		<0.005	<0.005						
9/23/2020					0.0011 (J)	<0.005	0.001 (J)		<0.005
9/24/2020	<0.005							<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				<0.005					
2/9/2021	<0.005								
2/10/2021				<0.005			<0.005		0.00094 (J)
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021		<0.005						<0.005	
3/2/2021			<0.005	<0.005					
3/3/2021					<0.005	<0.005	0.00098 (J)		<0.005
3/4/2021	<0.005								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	<0.005								
2/8/2022	<0.005	0.0027 (J)	0.0033 (J)						
2/9/2022					0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)
2/10/2022				0.0016 (J)					
2/11/2022								0.0014 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0004 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.0011 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.005
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.0041 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	0.00078 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	0.0018 (J)
2/10/2022	
2/11/2022	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.005				
8/1/2016			<0.005				
9/2/2016				<0.005			
9/20/2016			<0.005				
11/8/2016			<0.005				
11/14/2016				<0.005			
1/17/2017			<0.005				
2/28/2017				0.0006 (J)			
3/8/2017			<0.005				
5/2/2017			<0.005				
5/9/2017				0.0006 (J)			
7/7/2017			<0.005				
7/13/2017				<0.005			
9/22/2017				<0.005			
9/29/2017				<0.005			
10/6/2017				<0.005			
10/12/2017		0.0014 (J)					
11/21/2017		0.0008 (J)					
1/11/2018		0.0006 (J)					
2/20/2018		<0.005					
3/30/2018			<0.005	<0.005			
4/3/2018		0.0012 (J)					
6/12/2018			<0.005				
6/13/2018				0.00066 (J)			
6/29/2018		0.0011 (J)					
8/6/2018		<0.005					
9/24/2018		0.00094 (J)					
9/26/2018			<0.005	<0.005			
10/16/2018	0.00069 (J)						
3/5/2019			<0.005				
3/6/2019				<0.005			
4/4/2019			<0.005	<0.005			
9/26/2019	<0.005		<0.005	<0.005			
3/25/2020	<0.005			<0.005			
3/26/2020			0.0015 (J)				
9/23/2020			<0.005				
9/24/2020	<0.005						
9/25/2020		<0.005					
10/7/2020				<0.005			
2/9/2021		0.0015 (J)	<0.005				
2/10/2021	0.00096 (J)			0.00088 (J)			
3/3/2021			<0.005				
3/4/2021	<0.005	<0.005		<0.005			
8/25/2021		0.0014 (J)					
9/1/2021	<0.005		<0.005				
9/3/2021				<0.005	<0.005		
2/10/2022	0.0018 (J)	0.0017 (J)	0.0024 (J)				0.0013 (J)
2/11/2022				0.0014 (J)	<0.005	0.0014 (J)	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.028	0.019	
6/7/2016						0.012			0.014
7/27/2016						0.0126	0.0294	0.0167	0.0141
7/28/2016									
9/16/2016						0.0127		0.0168	
9/19/2016							0.0247		0.0155
11/2/2016									0.0157
11/3/2016						0.0128	0.0248	0.0159	
1/11/2017						0.0142	0.0266	0.0162	
1/13/2017									0.0158
3/1/2017							0.0275	0.0195	
3/2/2017						0.0155			
3/6/2017									0.0163
4/26/2017							0.024	0.0182	0.0177
5/2/2017						0.0138			
6/28/2017							0.0237	0.018	
6/29/2017						0.0128			0.017
3/28/2018						0.014	0.024	0.021	
3/29/2018									0.014
6/5/2018									
6/6/2018									0.015
6/7/2018							0.023		
6/11/2018						0.013		0.019	
9/25/2018						0.014	0.023	0.019	0.015
10/16/2018	0.048								
3/5/2019						0.015		0.02	0.016
3/6/2019							0.024		
4/2/2019						0.016			
4/3/2019							0.025	0.017	0.018
9/24/2019									
9/25/2019						0.015			0.014
9/26/2019	0.047						0.021	0.017	
2/11/2020						0.015	0.022	0.019	
2/12/2020									0.014
3/24/2020						0.015	0.021	0.017	0.015
3/25/2020	0.04								
9/23/2020		0.0092 (J)		0.0063 (J)		0.015	0.021	0.016	
9/24/2020	0.028				0.057				0.015
2/9/2021	0.039	0.0085 (J)		0.02	0.042		0.023	0.017	0.015
3/3/2021	0.035	0.0082		0.021		0.017	0.023	0.017	0.015
3/4/2021					0.039				
8/25/2021				0.0037 (J)					
8/26/2021					0.036			0.015	
8/27/2021						0.016	0.02		0.013
9/1/2021	0.075	0.0072							
2/9/2022						0.017	0.021	0.014	0.014
2/10/2022	0.084	0.0074	0.038	0.0033 (J)	0.034				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0058
7/27/2016	
7/28/2016	0.0068 (J)
9/16/2016	
9/19/2016	0.0071 (J)
11/2/2016	
11/3/2016	0.0092 (J)
1/11/2017	
1/13/2017	0.0105
3/1/2017	
3/2/2017	
3/6/2017	0.0105
4/26/2017	0.011
5/2/2017	
6/28/2017	
6/29/2017	0.0109
3/28/2018	
3/29/2018	<0.01
6/5/2018	0.011
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.011
10/16/2018	
3/5/2019	0.011
3/6/2019	
4/2/2019	0.011
4/3/2019	
9/24/2019	0.011
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.011
3/24/2020	0.011
3/25/2020	
9/23/2020	
9/24/2020	0.01
2/9/2021	0.011
3/3/2021	
3/4/2021	0.011
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0099
2/9/2022	0.011
2/10/2022	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0084	0.019				
6/7/2016						0.045			
7/26/2016			0.0158	0.01	0.0179				
7/28/2016						0.0511			
8/30/2016									0.0455
8/31/2016									
9/14/2016			0.0143	0.0085 (J)	0.0181				
9/20/2016						0.0561			
11/2/2016			0.0148	0.0091 (J)					
11/4/2016					0.0165				
11/8/2016						0.054			
11/16/2016									0.0541
1/12/2017				0.0089 (J)	0.0199				
1/13/2017			0.0146						
1/16/2017						0.0528			
2/24/2017									
2/27/2017									0.0573
3/6/2017			0.0141						
3/7/2017				0.009 (J)	0.0196				
3/9/2017						0.0469			
5/1/2017			0.0149	0.0083 (J)					
5/2/2017					0.0202	0.0427			
5/10/2017									0.0517
6/27/2017				0.0074 (J)	0.0184				
6/29/2017			0.0154						
7/10/2017						0.0395			
7/11/2017									0.0451
10/11/2017	0.0092 (J)								
10/12/2017		0.0328					0.0269	0.0394	0.0429
11/20/2017	0.0081 (J)	0.0671					0.0255		
11/21/2017								0.032	
1/10/2018		0.0656							
1/11/2018	0.0077 (J)							0.03	
1/12/2018							0.0236		
2/19/2018		0.0598						0.0308	
2/20/2018	<0.01						0.0255		
3/29/2018			0.014	<0.01	0.021				
3/30/2018						0.03			
4/3/2018	<0.01	0.045					0.023	0.03	
4/4/2018									0.041
6/6/2018				0.008 (J)					
6/7/2018			0.014		0.019				
6/12/2018						0.024			
6/27/2018								0.028	
6/28/2018	0.0078 (J)	0.047					0.024		
8/7/2018	0.0078 (J)	0.048					0.023	0.027	
9/20/2018									0.038
9/24/2018	0.0071 (J)	0.042					0.021	0.026	
9/26/2018			0.02	0.0075 (J)	0.019				
9/27/2018						0.022			
3/4/2019			0.016	0.0077 (J)	0.019				
3/6/2019						0.019			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.017	0.0087 (J)	0.023				
4/4/2019						0.019			
8/21/2019	0.015	0.035							
8/22/2019							0.019	0.021	0.031
9/24/2019				0.0075 (J)	0.019				
9/25/2019			0.015						
9/27/2019						0.018			
10/9/2019	0.013	0.036					0.019	0.021	0.027
2/12/2020	0.011	0.035	0.012	0.0079 (J)	0.021				
3/24/2020		0.033		0.0076 (J)	0.021				
3/25/2020	0.014		0.016				0.018	0.021	0.03
3/26/2020						0.027			
9/22/2020			0.013	0.0076 (J)	0.019				
9/24/2020	0.016	0.028				0.035			0.026
9/25/2020							0.015	0.016	
2/8/2021				0.0079 (J)	0.02				
2/9/2021			0.013			0.042	0.016		
2/10/2021	0.027	0.032						0.017	0.031
3/2/2021				0.014	0.019				
3/3/2021			0.014						
3/4/2021	0.028	0.032				0.043	0.016	0.017	0.03
8/25/2021						0.049			0.027
8/26/2021	0.038		0.012	0.0092	0.019		0.016	0.018	
9/3/2021		0.035							
9/27/2021									
2/8/2022	0.041	0.039						0.021	
2/10/2022				0.0084	0.02	0.058	0.016		0.026
2/11/2022			0.013						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.0065 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.0092 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.0144
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0173
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.0183
10/11/2017	
10/12/2017	0.0205
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	0.024
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.035
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.03
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.04
2/12/2020	
3/24/2020	
3/25/2020	0.033
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.046
2/8/2021	
2/9/2021	0.041
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.039
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0097
2/8/2022	0.029
2/10/2022	
2/11/2022	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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				0.0081				0.0064	0.01
7/25/2016						0.0091 (J)		0.0071 (J)	
7/26/2016				0.0082 (J)	0.006 (J)				0.0088 (J)
8/30/2016		0.0413							
8/31/2016			0.0542						
9/1/2016	0.077								
9/13/2016					0.0084 (J)	0.008 (J)			
9/14/2016							0.0037 (J)		
9/15/2016				0.0087 (J)					0.009 (J)
9/19/2016								0.0069 (J)	
11/1/2016					0.0062 (J)			0.007 (J)	0.0079 (J)
11/2/2016				0.0082 (J)					
11/4/2016						0.0067 (J)	0.0059 (J)		
11/14/2016		0.0383							
11/15/2016	0.0772								
11/28/2016			0.0529						
12/15/2016							0.0056 (J)		
1/10/2017				0.0086 (J)					
1/11/2017					0.0069 (J)				0.0075 (J)
1/16/2017						0.0096 (J)	0.0049 (J)	0.0071 (J)	
2/21/2017								0.0077 (J)	
2/22/2017			0.0607						
2/24/2017		0.0351							
2/27/2017	0.0888								
3/1/2017									
3/2/2017					0.0071 (J)	0.0112			0.009 (J)
3/3/2017							0.0046 (J)		
3/8/2017				0.0088 (J)					
4/26/2017				0.0085 (J)				0.0074 (J)	0.0078 (J)
4/27/2017					0.0064 (J)	0.0106			
4/28/2017							0.0039 (J)		
5/8/2017		0.0251	0.065						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0792								
5/26/2017							0.0034 (J)		
6/27/2017					0.0054 (J)	0.0092 (J)			
6/28/2017							0.003 (J)		0.0071 (J)
6/30/2017				0.0081 (J)				0.0076 (J)	
7/11/2017		0.0233							
7/13/2017	0.0839								
7/17/2017			0.06						
10/10/2017		0.0207							
10/11/2017	0.078								
10/16/2017			0.0542						
2/19/2018			0.0533						
3/27/2018				<0.01		<0.01		<0.01	
3/28/2018							<0.01		<0.01
3/29/2018					<0.01				
4/2/2018		0.022							
4/4/2018	0.074								
6/5/2018					0.0069 (J)				
6/6/2018						0.0082 (J)			
6/7/2018							0.0037 (J)		0.0068 (J)
6/8/2018				0.007 (J)					
6/11/2018								0.007 (J)	
8/6/2018			0.044						
9/19/2018		0.023							
9/20/2018	0.074								
10/1/2018				0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)
10/2/2018								0.0069 (J)	
2/25/2019			0.045						
2/26/2019				0.0067 (J)				0.007 (J)	
2/27/2019					0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)
3/28/2019					0.0082 (J)	0.0082 (J)			
3/29/2019				0.0066 (J)			0.0039 (J)		
4/1/2019								0.0072 (J)	0.0064 (J)
6/12/2019			0.063						
8/19/2019			0.065						
8/20/2019		0.024							
9/24/2019					0.0072 (J)	0.0086 (J)	0.0038 (J)		
9/25/2019				0.0071 (J)				0.0066 (J)	0.0059 (J)
9/26/2019	0.065								
10/8/2019		0.025	0.058						
2/10/2020					0.0066 (J)	0.0091 (J)			
2/11/2020							0.0036 (J)		
2/12/2020				0.007 (J)				0.0073 (J)	0.0062 (J)
3/17/2020		0.035	0.047						
3/18/2020				0.0076 (J)		0.0084 (J)			
3/19/2020					0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)
3/25/2020	0.071								
8/26/2020			0.044						
8/27/2020		0.027							
9/22/2020		0.026	0.045						
9/23/2020					0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)
9/24/2020	0.066							0.0062 (J)	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				0.0073 (J)					
2/9/2021	0.071								
2/10/2021				0.0078 (J)			0.0032 (J)		0.0059 (J)
2/11/2021								0.0077 (J)	
2/12/2021					0.0057 (J)	0.009 (J)			
3/1/2021		0.029						0.007	
3/2/2021			0.039	0.0076					
3/3/2021					0.0068	0.0094	0.0041 (J)		0.0064
3/4/2021	0.069								
8/19/2021		0.029		0.0077	0.0065	0.0079		0.0071	0.0052
8/20/2021			0.036						
8/27/2021							0.003 (J)		
9/1/2021	0.066								
2/8/2022	0.07	0.03	0.037						
2/9/2022					0.0067	0.0088	0.0029 (J)		0.0051
2/10/2022				0.0088					
2/11/2022								0.0077	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	0.0038
6/2/2016	
7/25/2016	0.0031 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.0027 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0027 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0036 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0036 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0038 (J)
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.004 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.01
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.0034 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0034 (J)
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	0.0034 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.003 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.005 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.0031 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0029 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.0039 (J)
9/24/2020	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	0.0029 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0031 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0039 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0031 (J)
2/10/2022	
2/11/2022	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			0.02				
8/1/2016			0.02				
9/2/2016				0.0409			
9/20/2016			0.0203				
11/8/2016			0.0191				
11/14/2016				0.0182			
1/17/2017			0.0192				
2/28/2017				0.023			
3/8/2017			0.0189				
5/2/2017			0.019				
5/9/2017				0.0349			
7/7/2017			0.019				
7/13/2017				0.0484			
9/22/2017				0.0491			
9/29/2017				0.0452			
10/6/2017				0.0508			
10/12/2017		0.064					
11/21/2017		0.0579					
1/11/2018		0.0549					
2/20/2018		0.0593					
3/30/2018			0.02	0.043			
4/3/2018		0.051					
6/12/2018			0.018				
6/13/2018				0.046			
6/29/2018		0.054					
8/6/2018		0.048					
9/24/2018		0.047					
9/26/2018			0.019	0.048			
10/16/2018	0.063						
3/5/2019			0.019				
3/6/2019				0.041			
4/4/2019			0.02	0.042			
9/26/2019	0.039		0.017	0.025			
3/25/2020	0.039			0.025			
3/26/2020			0.019				
9/23/2020			0.026				
9/24/2020	0.034						
9/25/2020		0.034					
10/7/2020				0.04			
2/9/2021		0.036	0.031				
2/10/2021	0.032			0.035			
3/3/2021			0.025				
3/4/2021	0.033	0.036		0.028			
8/25/2021		0.035					
9/1/2021	0.067		0.025				
9/3/2021				0.038	0.015		
2/10/2022	0.074	0.029	0.026				0.017
2/11/2022				0.044	0.013	0.032	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0005	<0.0005	
6/7/2016						<0.0005			<0.0005
7/27/2016						<0.0005	<0.0005	<0.0005	<0.0005
7/28/2016									
9/16/2016						<0.0005		<0.0005	
9/19/2016							<0.0005		<0.0005
11/2/2016									<0.0005
11/3/2016						<0.0005	<0.0005	<0.0005	
1/11/2017						<0.0005	<0.0005	<0.0005	
1/13/2017									<0.0005
3/1/2017							<0.0005	<0.0005	
3/2/2017						8E-05 (J)			
3/6/2017									<0.0005
4/26/2017							<0.0005	<0.0005	<0.0005
5/2/2017						<0.0005			
6/28/2017							<0.0005	<0.0005	
6/29/2017						<0.0005			<0.0005
3/28/2018						<0.0005	<0.0005	<0.0005	
3/29/2018									<0.0005
6/5/2018									
6/6/2018									8E-05 (J)
6/7/2018							<0.0005		
6/11/2018						9E-05 (J)		5.7E-05 (J)	
9/25/2018						8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)
10/16/2018	<0.0005								
3/5/2019						9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)
3/6/2019							<0.0005		
4/2/2019						9E-05 (J)			
4/3/2019							<0.0005	7.5E-05 (J)	6.4E-05 (J)
9/24/2019									
9/25/2019						8.1E-05 (J)			<0.0005
9/26/2019	<0.0005						<0.0005	8.4E-05 (J)	
1/15/2020					0.00017 (J)				
2/11/2020						7.8E-05 (J)	<0.0005	7.6E-05 (J)	
2/12/2020									7.8E-05 (J)
3/24/2020						8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)
3/25/2020	0.00037 (J)								
9/23/2020		<0.0005		<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)	
9/24/2020	5.8E-05 (J)				8.6E-05 (J)				8.3E-05 (J)
2/9/2021	<0.0005	5.1E-05 (J)		<0.0005	0.00015 (J)		<0.0005	9.8E-05 (J)	6.8E-05 (J)
3/3/2021	<0.0005	<0.0005		<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)
3/4/2021					0.00013 (J)				
8/25/2021				<0.0005					
8/26/2021					0.00012 (J)			9.3E-05 (J)	
8/27/2021						0.0001 (J)	<0.0005		5.9E-05 (J)
9/1/2021	9.5E-05 (J)	6.5E-05 (J)							
2/9/2022						0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)
2/10/2022	0.00016 (J)	7.4E-05 (J)	7.8E-05 (J)	<0.0005	0.00013 (J)				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.0005
7/27/2016	
7/28/2016	<0.0005
9/16/2016	
9/19/2016	<0.0005
11/2/2016	
11/3/2016	<0.0005
1/11/2017	
1/13/2017	<0.0005
3/1/2017	
3/2/2017	
3/6/2017	<0.0005
4/26/2017	<0.0005
5/2/2017	
6/28/2017	
6/29/2017	<0.0005
3/28/2018	
3/29/2018	<0.0005
6/5/2018	<0.0005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	<0.0005
10/16/2018	
3/5/2019	<0.0005
3/6/2019	
4/2/2019	<0.0005
4/3/2019	
9/24/2019	<0.0005
9/25/2019	
9/26/2019	
1/15/2020	
2/11/2020	
2/12/2020	<0.0005
3/24/2020	<0.0005
3/25/2020	
9/23/2020	
9/24/2020	<0.0005
2/9/2021	<0.0005
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0005
2/9/2022	<0.0005
2/10/2022	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									9E-05 (J)
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						0.0001 (J)			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						<0.0005			
11/16/2016									<0.0005
1/12/2017				<0.0005	<0.0005				
1/13/2017			<0.0005						
1/16/2017						0.0001 (J)			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						0.0001 (J)			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	9E-05 (J)			
5/10/2017									9E-05 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0001 (J)
10/11/2017	<0.0005								
10/12/2017		0.0002 (J)					0.0057	0.0036	<0.0005
11/20/2017	<0.0005	0.0003 (J)					0.0053		
11/21/2017								0.0036	
1/10/2018		0.0003 (J)							
1/11/2018	<0.0005							0.0037	
1/12/2018							0.0053		
2/19/2018		<0.0005						0.0039	
2/20/2018	<0.0005						0.0053		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0005	<0.0005					0.0056	0.0037	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						8.1E-05 (J)			
6/27/2018								0.0038	
6/28/2018	<0.0005	0.00029 (J)					0.0059		
8/7/2018	<0.0005	0.00024 (J)					0.0058	0.0037	
9/20/2018									<0.0005
9/24/2018	<0.0005	0.00019 (J)					0.0051	0.0032	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						9E-05 (J)			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						6.6E-05 (J)			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						7.2E-05 (J)			
8/21/2019	<0.0005	0.0002 (J)							
8/22/2019							0.0049	0.0026 (J)	<0.0005
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						7.7E-05 (J)			
10/9/2019	<0.0005	0.0002 (J)					0.0046	0.0026 (J)	<0.0005
2/12/2020	<0.0005	0.00018 (J)	<0.0005	<0.0005	<0.0005				
3/24/2020		0.00022 (J)		<0.0005	<0.0005				
3/25/2020	<0.0005		<0.0005				0.0038	0.0026 (J)	<0.0005
3/26/2020						9E-05 (J)			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0005	0.0002 (J)				0.00015 (J)			6.7E-05 (J)
9/25/2020							0.0033	0.002 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			0.00015 (J)	0.0029 (J)		
2/10/2021	5.1E-05 (J)	0.00021 (J)						0.0015 (J)	5.7E-05 (J)
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	<0.0005	0.00021 (J)				0.00013 (J)	0.0029	0.0015	<0.0005
8/25/2021						0.00019 (J)			<0.0005
8/26/2021	<0.0005		<0.0005	<0.0005	<0.0005		0.0028	0.0012	
9/3/2021		0.00024 (J)							
9/27/2021									
2/8/2022	<0.0005	0.00028 (J)						0.0016	
2/10/2022				<0.0005	<0.0005	0.00023 (J)	0.0027		6.1E-05 (J)
2/11/2022			<0.0005						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0005
10/11/2017	
10/12/2017	0.0001 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.00029 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0003 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00034 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.00034 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00054 (J)
2/8/2021	
2/9/2021	0.00053 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.00056
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.00015 (J)
2/8/2022	0.00037 (J)
2/10/2022	
2/11/2022	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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	<0.0005
7/25/2016						<0.0005		<0.0005	
7/26/2016				0.0002 (J)	<0.0005				<0.0005
8/30/2016		<0.0005							
8/31/2016			<0.0005						
9/1/2016	0.0001 (J)								
9/13/2016					<0.0005	<0.0005			
9/14/2016							<0.0005		
9/15/2016				0.0002 (J)					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				0.0002 (J)					
11/4/2016						<0.0005	<0.0005		
11/14/2016		<0.0005							
11/15/2016	0.0001 (J)								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				0.0002 (J)					
1/11/2017					<0.0005				<0.0005
1/16/2017						<0.0005	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		<0.0005							
2/27/2017	0.0001 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017							<0.0005		
3/8/2017				0.0002 (J)					
4/26/2017				0.0002 (J)				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0005			
4/28/2017							<0.0005		
5/8/2017		7E-05 (J)	<0.0005						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0001 (J)								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0005			
6/28/2017							<0.0005		<0.0005
6/30/2017				0.0002 (J)				<0.0005	
7/11/2017		<0.0005							
7/13/2017	0.0001 (J)								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	0.0001 (J)								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.0005		<0.0005		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.0005								
8/6/2018			<0.0005						
9/19/2018		5.7E-05 (J)							
9/20/2018	0.00011 (J)								
2/25/2019			<0.0005						
2/26/2019				0.00016 (J)				7.2E-05 (J)	
2/27/2019					<0.0005	<0.0005	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0005			
3/29/2019				0.00017 (J)			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019					<0.0005	<0.0005	<0.0005		
9/25/2019				0.00018 (J)				<0.0005	<0.0005
9/26/2019	0.00013 (J)								
10/8/2019			<0.0005						
2/10/2020					<0.0005	<0.0005			
2/11/2020							<0.0005		
2/12/2020				0.00019 (J)				<0.0005	<0.0005
3/17/2020			<0.0005						
3/18/2020				0.00021 (J)		<0.0005			
3/19/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2020	0.00013 (J)								
8/26/2020			<0.0005						
8/27/2020		4.7E-05 (J)							
9/22/2020		<0.0005	<0.0005						
9/23/2020					<0.0005	<0.0005	<0.0005		<0.0005
9/24/2020	0.00013 (J)							<0.0005	
9/25/2020				0.00018 (J)					
2/9/2021	0.00013 (J)								
2/10/2021				0.00019 (J)			<0.0005		<0.0005
2/11/2021								4.7E-05 (J)	
2/12/2021					<0.0005	<0.0005			
3/1/2021		5.5E-05 (J)						<0.0005	
3/2/2021			<0.0005	0.00018 (J)					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.0005	<0.0005	<0.0005		<0.0005
3/4/2021	0.0001 (J)								
8/19/2021		<0.0005		0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	0.00012 (J)								
2/8/2022	0.00015 (J)	5.6E-05 (J)	<0.0005						
2/9/2022					<0.0005	<0.0005	<0.0005		<0.0005
2/10/2022				0.00025 (J)					
2/11/2022								<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0005
6/2/2016	
7/25/2016	<0.0005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0005
9/15/2016	
9/19/2016	
11/1/2016	<0.0005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.0005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.0005
3/28/2019	
3/29/2019	
4/1/2019	<0.0005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.0005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	5.9E-05 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.0005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.0005
9/1/2021	
2/8/2022	
2/9/2022	<0.0005
2/10/2022	
2/11/2022	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.0005				
8/1/2016			0.0001 (J)				
9/2/2016				0.0003 (J)			
9/20/2016			0.0001 (J)				
11/8/2016			<0.0005				
11/14/2016				9E-05 (J)			
1/17/2017			0.0001 (J)				
2/28/2017				0.0001 (J)			
3/8/2017			0.0001 (J)				
5/2/2017			0.0001 (J)				
5/9/2017				0.0002 (J)			
7/7/2017			0.0001 (J)				
7/13/2017				0.0003 (J)			
9/22/2017				0.0003 (J)			
9/29/2017				0.0003 (J)			
10/6/2017				0.0003 (J)			
10/12/2017		0.0004 (J)					
11/21/2017		0.0004 (J)					
1/11/2018		0.0003 (J)					
2/20/2018		<0.0005					
3/30/2018			<0.0005	<0.0005			
4/3/2018		<0.0005					
6/12/2018			0.00012 (J)				
6/13/2018				0.00035 (J)			
6/29/2018		0.00033 (J)					
8/6/2018		0.0002 (J)					
8/30/2018	0.00052 (J)						
9/24/2018		0.00029 (J)					
9/26/2018			0.00014 (J)	0.00032 (J)			
10/16/2018	0.00036 (J)						
3/5/2019			0.00016 (J)				
3/6/2019				0.00029 (J)			
4/4/2019			0.00015 (J)	0.00033 (J)			
9/26/2019	<0.0005		0.00014 (J)	0.00029 (J)			
3/25/2020	<0.0005			0.00022 (J)			
3/26/2020			0.00016 (J)				
9/23/2020			6.1E-05 (J)				
9/24/2020	0.00033 (J)						
9/25/2020		0.00031 (J)					
10/7/2020				0.00014 (J)			
2/9/2021		0.00029 (J)	0.00013 (J)				
2/10/2021	0.00025 (J)			9.9E-05 (J)			
3/3/2021			9.9E-05 (J)				
3/4/2021	0.00025 (J)	0.00017 (J)		0.00016 (J)			
8/25/2021		0.00059					
9/1/2021	0.00045 (J)		0.00014 (J)				
9/3/2021				0.00035 (J)	<0.0005		
2/10/2022	0.00055	0.001	0.00016 (J)				0.0033
2/11/2022				0.00043 (J)	<0.0005	5.9E-05 (J)	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.04	<0.04	
6/7/2016						<0.04			<0.04
7/27/2016						0.008 (J)	<0.04	0.0059 (J)	<0.04
7/28/2016									
9/16/2016						0.0086 (J)		0.0079 (J)	
9/19/2016							<0.04		<0.04
11/2/2016									<0.04
11/3/2016						0.0077 (J)	<0.04	0.0082 (J)	
1/11/2017						0.0092 (J)	<0.04	0.0096 (J)	
1/13/2017									<0.04
3/1/2017							<0.04	<0.04	
3/2/2017						0.0095 (J)			
3/6/2017									<0.04
4/26/2017							<0.04	0.0091 (J)	<0.04
5/2/2017						<0.04			
6/28/2017							<0.04	0.0079 (J)	
6/29/2017						0.0074 (J)			<0.04
10/3/2017									
10/4/2017						0.0077 (J)		0.009 (J)	<0.04
10/5/2017							<0.04		
6/5/2018									
6/6/2018									0.0049 (J)
6/7/2018							<0.04		
6/11/2018						0.01 (J)		0.0093 (J)	
9/25/2018						0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04
10/16/2018	0.2								
4/2/2019						0.0066 (J)			
4/3/2019							<0.04	0.0053 (J)	<0.04
9/24/2019									
9/25/2019						0.0081 (J)			<0.04
9/26/2019	0.092						0.0062 (J)	0.0072 (J)	
1/15/2020		0.031 (J)			8.7				
1/16/2020			6.8	1.9					
2/11/2020			4.5		7.8				
3/24/2020						0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04
3/25/2020	0.018 (J)								
9/23/2020		0.026 (J)		2.5		0.0066 (J)	0.021 (J)	0.006 (J)	
9/24/2020	0.076 (J)				8.7				0.0094 (J)
3/3/2021	0.039 (J)	0.032 (J)		0.81		0.01 (J)	<0.04	0.0094 (J)	<0.04
3/4/2021					6.1				
8/25/2021				2.8					
8/26/2021					5.9			<0.04	
8/27/2021						0.011 (J)	<0.04		<0.04
9/1/2021	0.18	0.017 (J)							
2/9/2022						0.0098 (J)	<0.04	<0.04	<0.04
2/10/2022	0.36	0.022 (J)	7.7	3	4.9				

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.04
7/27/2016	
7/28/2016	<0.04
9/16/2016	
9/19/2016	<0.04
11/2/2016	
11/3/2016	<0.04
1/11/2017	
1/13/2017	<0.04
3/1/2017	
3/2/2017	
3/6/2017	<0.04
4/26/2017	<0.04
5/2/2017	
6/28/2017	
6/29/2017	<0.04
10/3/2017	<0.04
10/4/2017	
10/5/2017	
6/5/2018	0.0092 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0054 (J)
10/16/2018	
4/2/2019	0.011 (J)
4/3/2019	
9/24/2019	0.018 (J)
9/25/2019	
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
3/24/2020	0.016 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.013 (J)
3/3/2021	
3/4/2021	0.0079 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.04
2/9/2022	<0.04
2/10/2022	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.04	<0.04	<0.04				
6/7/2016						0.99			
7/26/2016			0.0047 (J)	0.0052 (J)	<0.04				
7/28/2016						1.09			
8/30/2016									24.7
8/31/2016									
9/14/2016			<0.04	0.0071 (J)	0.01 (J)				
9/20/2016						1.35			
11/2/2016			<0.04	<0.04					
11/4/2016					<0.04				
11/8/2016						1.5			
11/16/2016									16.4
1/12/2017				0.0076 (J)	<0.04				
1/13/2017			<0.04						
1/16/2017						1.67			
2/24/2017									
2/27/2017									17.9
3/6/2017			<0.04						
3/7/2017				0.0089 (J)	<0.04				
3/9/2017						1.44			
5/1/2017			<0.04	0.0061 (J)					
5/2/2017					<0.04	1.2			
5/10/2017									20.4
6/27/2017				0.0079 (J)	<0.04				
6/29/2017			<0.04						
7/10/2017						1.12			
7/11/2017									25.2
10/3/2017				0.0094 (J)	<0.04				
10/5/2017			<0.04						
10/11/2017	0.0135 (J)					1.09			
10/12/2017		0.0401					19.3	12	20
11/20/2017	0.0251 (J)	0.156					21.8		
11/21/2017								12.1	
1/10/2018		0.15							
1/11/2018	0.0255 (J)							12.8	
1/12/2018							18.7		
2/19/2018		0.146						15.2	
2/20/2018	<0.04						18.6		
4/3/2018	0.033 (J)	0.12					20.9	14.5	
4/4/2018									22.7
6/6/2018				0.0098 (J)					
6/7/2018			0.0045 (J)		<0.04				
6/12/2018						0.9			
6/27/2018								14.1	
6/28/2018	0.053	0.16					22.7		
8/7/2018	0.024 (J)	0.12					19.1	11.9	
9/20/2018									20.3
9/24/2018	0.028 (J)	0.099					18.4	12.2	
9/26/2018			0.005 (J)	0.01 (J)	0.0057 (J)				
9/27/2018						0.71			
3/26/2019		0.096							
3/27/2019	0.017 (J)						16.7		20.3

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								7.1	
4/3/2019			0.0055 (J)	0.0076 (J)	0.0044 (J)				
4/4/2019						0.6			
9/24/2019				0.01 (J)	0.0049 (J)				
9/25/2019			<0.04						
9/27/2019						0.58			
10/9/2019	0.017 (J)	0.079					13.5	8.6	16.6
3/24/2020		0.088 (J)		0.011 (J)	0.0068 (J)				
3/25/2020	0.043 (J)		0.011 (J)				9.3	7.9	15.5
3/26/2020						0.94			
9/22/2020			<0.04	0.0079 (J)	0.0053 (J)				
9/24/2020	0.037 (J)	0.087 (J)				1.1			15.2
9/25/2020							8	6	
3/2/2021				0.0068 (J)	0.011 (J)				
3/3/2021			0.0056 (J)						
3/4/2021	0.033 (J)	0.078				1.2	6.4	4	14.8
8/25/2021						1.3			13.5
8/26/2021	0.095		<0.04	0.009 (J)	<0.04		6.1	3.3	
9/3/2021		0.077							
9/27/2021									
2/8/2022	0.13	0.074						4	
2/10/2022				0.011 (J)	<0.04	1.5	5.4		14.4
2/11/2022			<0.04						

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.169
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.406
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.725
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.955
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.994
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	1.15
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	1.2
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	2.1
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	1.8
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	2.7
3/24/2020	
3/25/2020	2.4
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	3.9
3/2/2021	
3/3/2021	
3/4/2021	3.6
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.64
2/8/2022	2.3
2/10/2022	
2/11/2022	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					<0.04	<0.04			
6/2/2016				<0.04				<0.04	<0.04
7/25/2016						<0.04		<0.04	
7/26/2016				0.0177 (J)	0.0055 (J)				0.0097 (J)
8/30/2016		0.0166 (J)							
8/31/2016			0.0315 (J)						
9/1/2016	0.0113 (J)								
9/13/2016					<0.04	<0.04			
9/14/2016							<0.04		
9/15/2016				0.0214 (J)					0.0102 (J)
9/19/2016								<0.04	
11/1/2016					0.0086 (J)			<0.04	<0.04
11/2/2016				<0.04					
11/4/2016						<0.04	<0.04		
11/14/2016		0.0166 (J)							
11/15/2016	0.0074 (J)								
11/28/2016			0.0095 (J)						
12/15/2016							0.0107 (J)		
1/10/2017				0.0198 (J)					
1/11/2017					0.0074 (J)				<0.04
1/16/2017						<0.04	<0.04	<0.04	
2/21/2017								<0.04	
2/22/2017			<0.04						
2/24/2017		0.0145 (J)							
2/27/2017	<0.04								
3/1/2017									
3/2/2017					0.008 (J)	<0.04			0.0084 (J)
3/3/2017							<0.04		
3/8/2017				0.0189 (J)					
4/26/2017				0.0161 (J)				<0.04	<0.04
4/27/2017					0.0066 (J)	<0.04			
4/28/2017							<0.04		
5/8/2017		0.0141 (J)	0.0084 (J)						
5/9/2017	<0.04								
5/26/2017							<0.04		
6/27/2017					0.0087 (J)	0.006 (J)			
6/28/2017							<0.04		<0.04
6/30/2017				0.0173 (J)				<0.04	
7/11/2017		0.0131 (J)							
7/13/2017	0.0093 (J)								
7/17/2017			0.0092 (J)						
10/3/2017					0.0072 (J)	0.0071 (J)	<0.04		
10/4/2017								<0.04	<0.04
10/5/2017				0.0173 (J)					
10/10/2017		0.0124 (J)							
10/11/2017	<0.04								
10/16/2017			<0.04						
2/19/2018			<0.04						
4/2/2018		0.013 (J)							
4/4/2018	0.0041 (J)								
6/5/2018					0.0052 (J)				
6/6/2018						<0.04			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							<0.04		0.004 (J)
6/8/2018				0.013 (J)					
6/11/2018								0.014 (J)	
8/6/2018			<0.04						
9/19/2018		0.012 (J)							
9/20/2018	0.0042 (J)								
10/1/2018				0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04
10/2/2018								<0.04	
2/25/2019			<0.04						
3/27/2019		0.013 (J)							
3/28/2019	<0.04				0.005 (J)	<0.04			
3/29/2019				0.014 (J)			0.0065 (J)		
4/1/2019								<0.04	<0.04
6/12/2019			<0.04						
9/24/2019					0.0064 (J)	0.0055 (J)	0.0076 (J)		
9/25/2019				0.018 (J)				<0.04	0.0054 (J)
9/26/2019	<0.04								
10/8/2019		0.012 (J)	<0.04						
3/17/2020		0.023 (J)	0.0051 (J)						
3/18/2020				0.02 (J)		0.0087 (J)			
3/19/2020					0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)
3/25/2020	0.012 (J)								
9/22/2020		0.0076 (J)	0.0079 (J)						
9/23/2020					<0.04	<0.04	<0.04		0.012 (J)
9/24/2020	0.062 (J)							0.0075 (J)	
9/25/2020				0.02 (J)					
3/1/2021		0.013 (J)						<0.04	
3/2/2021			<0.04	0.017 (J)					
3/3/2021					<0.04	<0.04	<0.04		<0.04
3/4/2021	<0.04								
8/19/2021		0.011 (J)		0.018 (J)	<0.04	<0.04		<0.04	<0.04
8/20/2021			<0.04						
8/27/2021							<0.04		
9/1/2021	<0.04								
2/8/2022	<0.04	0.015 (J)	<0.04						
2/9/2022					<0.04	<0.04	<0.04		0.01 (J)
2/10/2022				0.02 (J)					
2/11/2022								<0.04	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	<0.04
6/2/2016	
7/25/2016	<0.04
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.04
9/15/2016	
9/19/2016	
11/1/2016	<0.04
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.04
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.04
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.04
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.04
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	<0.04
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	<0.04
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.04
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	<0.04
6/12/2019	
9/24/2019	
9/25/2019	<0.04
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	0.0053 (J)
3/25/2020	
9/22/2020	
9/23/2020	0.0073 (J)
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	<0.04
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.04
9/1/2021	
2/8/2022	
2/9/2022	<0.04
2/10/2022	
2/11/2022	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.04				
8/1/2016			<0.04				
9/2/2016				0.133			
9/20/2016			<0.04				
11/8/2016			<0.04				
11/14/2016				0.287			
1/17/2017			<0.04				
2/28/2017				0.215			
3/8/2017			<0.04				
5/2/2017			0.0099 (J)				
5/9/2017				0.233			
7/7/2017			0.0076 (J)				
7/13/2017				0.262			
9/22/2017				0.238			
9/29/2017				0.235			
10/5/2017			<0.04				
10/6/2017				0.256			
10/11/2017				0.245			
10/12/2017		15.4					
11/21/2017		17.2					
1/11/2018		15.8					
2/20/2018		19.5					
4/3/2018		17.5					
6/12/2018			0.018 (J)				
6/13/2018				0.25			
6/29/2018		20.6					
8/6/2018		15.9					
8/30/2018	0.04						
9/24/2018		16.5					
9/26/2018			0.0055 (J)	0.24			
10/16/2018	0.031 (J)						
4/4/2019			<0.04	0.22			
9/26/2019	<0.04		0.0068 (J)	0.13			
3/25/2020	0.071 (J)			0.11			
3/26/2020			0.033 (J)				
9/23/2020			<0.04				
9/24/2020	0.017 (J)						
9/25/2020		14.1					
10/7/2020				0.018 (J)			
3/3/2021			<0.04				
3/4/2021	0.012 (J)	12.4		0.0088 (J)			
8/25/2021		10.3					
9/1/2021	0.044		<0.04				
9/3/2021				0.012 (J)	1.6		
2/10/2022	0.054	9.5	<0.04				6.8
2/11/2022				0.019 (J)	0.44	0.84	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0005	<0.0005	
6/7/2016						<0.0005			<0.0005
7/27/2016						<0.0005	<0.0005	<0.0005	<0.0005
7/28/2016									
9/16/2016						<0.0005		<0.0005	
9/19/2016							<0.0005		<0.0005
11/2/2016									<0.0005
11/3/2016						<0.0005	<0.0005	<0.0005	
1/11/2017						0.0001 (J)	<0.0005	0.0001 (J)	
1/13/2017									<0.0005
3/1/2017							<0.0005	<0.0005	
3/2/2017						<0.0005			
3/6/2017									<0.0005
4/26/2017							<0.0005	<0.0005	<0.0005
5/2/2017						<0.0005			
6/28/2017							<0.0005	<0.0005	
6/29/2017						<0.0005			<0.0005
3/28/2018						<0.0005	<0.0005	<0.0005	
3/29/2018									<0.0005
6/5/2018									
6/6/2018									<0.0005
6/7/2018							<0.0005		
6/11/2018						<0.0005		<0.0005	
9/25/2018						<0.0005	<0.0005	<0.0005	<0.0005
10/16/2018	0.00014 (J)								
3/5/2019						<0.0005		<0.0005	<0.0005
3/6/2019							<0.0005		
4/2/2019						<0.0005			
4/3/2019							<0.0005	<0.0005	<0.0005
9/24/2019									
9/25/2019						<0.0005			<0.0005
9/26/2019	<0.0005						<0.0005	<0.0005	
2/11/2020						<0.0005	<0.0005	<0.0005	
2/12/2020									<0.0005
3/24/2020						<0.0005	<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005								
9/23/2020		<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	
9/24/2020	0.00017 (J)				0.00018 (J)				<0.0005
2/9/2021	0.00013 (J)	<0.0005		<0.0005	0.00025 (J)		<0.0005	<0.0005	<0.0005
3/3/2021	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
3/4/2021					0.00018 (J)				
8/25/2021				<0.0005					
8/26/2021					0.00021 (J)			<0.0005	
8/27/2021						<0.0005	<0.0005		<0.0005
9/1/2021	0.00023 (J)	<0.0005							
2/9/2022						<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	0.00018 (J)	<0.0005	<0.0005	<0.0005	0.00022 (J)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.0005
7/27/2016	
7/28/2016	<0.0005
9/16/2016	
9/19/2016	<0.0005
11/2/2016	
11/3/2016	<0.0005
1/11/2017	
1/13/2017	<0.0005
3/1/2017	
3/2/2017	
3/6/2017	<0.0005
4/26/2017	<0.0005
5/2/2017	
6/28/2017	
6/29/2017	<0.0005
3/28/2018	
3/29/2018	<0.0005
6/5/2018	<0.0005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	9.6E-05 (J)
10/16/2018	
3/5/2019	<0.0005
3/6/2019	
4/2/2019	<0.0005
4/3/2019	
9/24/2019	<0.0005
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.0005
3/24/2020	<0.0005
3/25/2020	
9/23/2020	
9/24/2020	<0.0005
2/9/2021	0.00041 (J)
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0005
2/9/2022	<0.0005
2/10/2022	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									<0.0005
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						<0.0005			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						7E-05 (J)			
11/16/2016									<0.0005
1/12/2017				<0.0005	9E-05 (J)				
1/13/2017			<0.0005						
1/16/2017						<0.0005			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						<0.0005			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	<0.0005			
5/10/2017									0.0002 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0005 (J)
10/11/2017	<0.0005								
10/12/2017		<0.0005					0.003	0.0002 (J)	0.0006 (J)
11/20/2017	<0.0005	<0.0005					0.0027		
11/21/2017								0.0003 (J)	
1/10/2018		<0.0005							
1/11/2018	<0.0005							0.0002 (J)	
1/12/2018							0.0029		
2/19/2018		<0.0005						<0.0005	
2/20/2018	<0.0005						0.0029		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0005	<0.0005					0.0027	<0.0005	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						<0.0005			
6/27/2018								0.00025 (J)	
6/28/2018	<0.0005	<0.0005					0.0029		
8/7/2018	<0.0005	<0.0005					0.0027	0.00024 (J)	
9/20/2018									0.0002 (J)
9/24/2018	<0.0005	<0.0005					0.0027	0.00021 (J)	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						<0.0005			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						<0.0005			
8/21/2019	<0.0005	<0.0005							
8/22/2019							0.0023 (J)	0.00015 (J)	0.00017 (J)
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						<0.0005			
10/9/2019	<0.0005	<0.0005					0.0021 (J)	0.00017 (J)	0.00025 (J)
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
3/24/2020		<0.0005		<0.0005	<0.0005				
3/25/2020	<0.0005		<0.0005				0.0018 (J)	0.00018 (J)	0.00021 (J)
3/26/2020						<0.0005			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0005	<0.0005				<0.0005			0.00014 (J)
9/25/2020							0.0015 (J)	0.00014 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			<0.0005	0.0014 (J)		
2/10/2021	0.00019 (J)	<0.0005						<0.0005	<0.0005
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	0.0003 (J)	<0.0005				<0.0005	0.0013	<0.0005	<0.0005
8/25/2021						<0.0005			<0.0005
8/26/2021	0.00049 (J)		<0.0005	<0.0005	<0.0005		0.0011	<0.0005	
9/3/2021		<0.0005							
9/27/2021									
2/8/2022	0.00063	<0.0005						0.00012 (J)	
2/10/2022				<0.0005	<0.0005	<0.0005	0.0011		<0.0005
2/11/2022			<0.0005						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0005
10/11/2017	
10/12/2017	<0.0005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.0005
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.0005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.0005
2/12/2020	
3/24/2020	
3/25/2020	<0.0005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.0005
2/8/2021	
2/9/2021	<0.0005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.0005
2/8/2022	<0.0005
2/10/2022	
2/11/2022	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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	<0.0005
7/25/2016						<0.0005		<0.0005	
7/26/2016				<0.0005	<0.0005				<0.0005
8/30/2016		0.0001 (J)							
8/31/2016			<0.0005						
9/1/2016	<0.0005								
9/13/2016					<0.0005	<0.0005			
9/14/2016							<0.0005		
9/15/2016				<0.0005					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				<0.0005					
11/4/2016						<0.0005	<0.0005		
11/14/2016		0.0001 (J)							
11/15/2016	<0.0005								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				<0.0005					
1/11/2017					0.0002 (J)				0.0001 (J)
1/16/2017						<0.0005	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		9E-05 (J)							
2/27/2017	7E-05 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017							<0.0005		
3/8/2017				7E-05 (J)					
4/26/2017				<0.0005				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0005			
4/28/2017							<0.0005		
5/8/2017		0.0001 (J)	<0.0005						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.0005								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0005			
6/28/2017							<0.0005		<0.0005
6/30/2017				<0.0005				<0.0005	
7/11/2017		<0.0005							
7/13/2017	<0.0005								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	<0.0005								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.0005		<0.0005		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.0005								
8/6/2018			<0.0005						
9/19/2018		<0.0005							
9/20/2018	<0.0005								
2/25/2019			<0.0005						
2/26/2019				<0.0005				<0.0005	
2/27/2019					<0.0005	<0.0005	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0005			
3/29/2019				<0.0005			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019					<0.0005	<0.0005	<0.0005		
9/25/2019				<0.0005				<0.0005	<0.0005
9/26/2019	<0.0005								
10/8/2019		<0.0005	<0.0005						
2/10/2020					<0.0005	<0.0005			
2/11/2020							<0.0005		
2/12/2020				<0.0005				<0.0005	<0.0005
3/17/2020		<0.0005	<0.0005						
3/18/2020				<0.0005		<0.0005			
3/19/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005								
8/26/2020			<0.0005						
8/27/2020		<0.0005							
9/22/2020			<0.0005						
9/23/2020					<0.0005	<0.0005	<0.0005		<0.0005
9/24/2020	<0.0005							<0.0005	
9/25/2020				<0.0005					
2/9/2021	<0.0005								
2/10/2021				<0.0005			<0.0005		<0.0005
2/11/2021								<0.0005	
2/12/2021					<0.0005	<0.0005			
3/1/2021								<0.0005	
3/2/2021			<0.0005	<0.0005					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.0005	<0.0005	<0.0005		<0.0005
3/4/2021	<0.0005								
8/19/2021		<0.0005		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	<0.0005								
2/8/2022	<0.0005	<0.0005	<0.0005						
2/9/2022					<0.0005	<0.0005	<0.0005		<0.0005
2/10/2022				<0.0005					
2/11/2022								<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0005
6/2/2016	
7/25/2016	<0.0005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0005
9/15/2016	
9/19/2016	
11/1/2016	<0.0005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	8E-05 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.0005
3/28/2019	
3/29/2019	
4/1/2019	<0.0005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.0005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.0005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.0005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.0005
9/1/2021	
2/8/2022	
2/9/2022	<0.0005
2/10/2022	
2/11/2022	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.0005				
8/1/2016			<0.0005				
9/2/2016				<0.0005			
9/20/2016			<0.0005				
11/8/2016			<0.0005				
11/14/2016				9E-05 (J)			
1/17/2017			<0.0005				
2/28/2017				0.0001 (J)			
3/8/2017			<0.0005				
5/2/2017			<0.0005				
5/9/2017				0.0002 (J)			
7/7/2017			<0.0005				
7/13/2017				0.0002 (J)			
9/22/2017				0.0002 (J)			
9/29/2017				0.0002 (J)			
10/6/2017				0.0002 (J)			
10/12/2017		0.0002 (J)					
11/21/2017		0.0002 (J)					
1/11/2018		0.0004 (J)					
2/20/2018		<0.0005					
3/30/2018			<0.0005	<0.0005			
4/3/2018		<0.0005					
6/12/2018			<0.0005				
6/13/2018				0.00019 (J)			
6/29/2018		0.00099 (J)					
8/6/2018		0.00063 (J)					
9/24/2018		0.00069 (J)					
9/26/2018			<0.0005	0.00018 (J)			
10/16/2018	<0.0005						
3/5/2019			<0.0005				
3/6/2019				0.00015 (J)			
4/4/2019			<0.0005	0.00019 (J)			
9/26/2019	<0.0005		<0.0005	0.00017 (J)			
3/25/2020	0.00016 (J)			0.00019 (J)			
3/26/2020			<0.0005				
9/23/2020			<0.0005				
9/24/2020	<0.0005						
9/25/2020		0.00039 (J)					
10/7/2020				0.00012 (J)			
2/9/2021		0.00042 (J)	<0.0005				
2/10/2021	<0.0005			<0.0005			
3/3/2021			<0.0005				
3/4/2021	<0.0005	0.00028 (J)		<0.0005			
8/25/2021		0.00094					
9/1/2021	<0.0005		<0.0005				
9/3/2021				<0.0005	<0.0005		
2/10/2022	<0.0005	0.00093	<0.0005				0.0019
2/11/2022				<0.0005	<0.0005	<0.0005	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.2	1.4	
6/7/2016						2.2			2.3
7/27/2016						2	4.73	1.19	2.08
7/28/2016									
9/16/2016						1.97		1.5	
9/19/2016							4.76		1.97
11/2/2016									2.13
11/3/2016						1.99	5.25	1.31	
1/11/2017						2.28	4.74	1.25	
1/13/2017									2.45
3/1/2017							5.37	1.26	
3/2/2017						2.15			
3/6/2017									2.48
4/26/2017							4.28	1.05	2.3
5/2/2017						1.95			
6/28/2017							4.95	1.06	
6/29/2017						2.02			2.54
10/3/2017									
10/4/2017						2.03		1.1	2.25
10/5/2017							5.28		
6/5/2018									
6/6/2018									2.3
6/7/2018							4.8		
6/11/2018						2.1		1.4	
9/25/2018						2.1	4.6	1	2.3
10/16/2018	14.5 (J)								
4/2/2019						2.5			
4/3/2019							5.3	1.2	2.9
9/24/2019									
9/25/2019						2.6			2.4
9/26/2019	9.3						4.9	1.1	
3/24/2020						2.7	5.3	1	2.6
3/25/2020	4.5								
9/23/2020		1.7		10.5		2.6	5.2	0.91 (J)	
9/24/2020	4.8				61.3				2.6
3/3/2021	6.9	1.5		20.6		2.5	5.2	0.96 (J)	2.4
3/4/2021					53.8				
8/25/2021				11					
8/26/2021					45			0.98 (J)	
8/27/2021						2.7	5.1		2.4
9/1/2021	16.8	1.4							
9/3/2021			42.5						
2/9/2022						2.8	5.1	0.87 (J)	2.3
2/10/2022	21.5	1.3	29.4	11.6	40.8				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	3.7
7/27/2016	
7/28/2016	3.15
9/16/2016	
9/19/2016	3.17
11/2/2016	
11/3/2016	3.4
1/11/2017	
1/13/2017	4.98
3/1/2017	
3/2/2017	
3/6/2017	6.28
4/26/2017	6.65
5/2/2017	
6/28/2017	
6/29/2017	6.04
10/3/2017	8.28
10/4/2017	
10/5/2017	
6/5/2018	9.1
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	10.4 (J)
10/16/2018	
4/2/2019	8.8
4/3/2019	
9/24/2019	7.7
9/25/2019	
9/26/2019	
3/24/2020	6
3/25/2020	
9/23/2020	
9/24/2020	7.8
3/3/2021	
3/4/2021	8.7
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	9.5
9/3/2021	
2/9/2022	9.8
2/10/2022	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8.8	33	2.4				
6/7/2016						9.6			
7/26/2016			7.69	32.3	2.12				
7/28/2016						7.87			
8/30/2016									133
8/31/2016									
9/14/2016			8.49	31	2.18				
9/20/2016						9.28			
11/2/2016			7.83	30.9					
11/4/2016					2.17 (J)				
11/8/2016						8.6			
11/16/2016									125
1/12/2017				35.7	2.37				
1/13/2017			8.08						
1/16/2017						8.85			
2/24/2017									
2/27/2017									139
3/6/2017			8.64						
3/7/2017				32.7	2.34				
3/9/2017						8.4			
5/1/2017			13.4	37					
5/2/2017					2.17	12.9			
5/10/2017									130
6/27/2017				36.5	2.13				
6/29/2017			8.81						
7/10/2017						8.09			
7/11/2017									172
10/3/2017				30.9	2.15				
10/5/2017			9.29						
10/11/2017	2.74					6.36			
10/12/2017		2.9					190	44.5	144
11/20/2017	1.81	10.4					184		
11/21/2017								44.4	
1/10/2018		10.2							
1/11/2018	1.54							43.9	
1/12/2018							178		
2/19/2018		<25						45.3	
2/20/2018	1.71						184		
4/3/2018	1.4	6.3					174	42.7	
4/4/2018									137
6/6/2018				26.2					
6/7/2018			8.2		2.3				
6/12/2018						4.7			
6/27/2018								42.2	
6/28/2018	1.4	6.7					190		
8/7/2018	1.2	6.3					176	40.7	
9/20/2018									108
9/24/2018	1.1	5.7					172	38.5	
9/26/2018			9.5 (J)	25.8	2.3				
9/27/2018						4.1			
3/26/2019		5.6							
3/27/2019	1.5						155		109

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								26	
4/3/2019			8.4	24.7 (J)	2.8				
4/4/2019						3.7			
9/24/2019				25.8	2.5				
9/25/2019			9.5						
9/27/2019						3.7			
10/9/2019	2.4	4.9					133	27.6	92
3/24/2020		4.8		26.1	2.5				
3/25/2020	2.7		10.5				124	29.6	107
3/26/2020						5.6			
9/22/2020			9.6	27.2	2.6				
9/24/2020	3.7	4.4				7.9			84.3
9/25/2020							93.7	20.5	
3/2/2021				1.6	2.6				
3/3/2021			7.7						
3/4/2021	8.2	4.6				10.2	87	16.4	90.7
8/25/2021						10.6			79.9
8/26/2021	14.1		7.6	25.2	2.5		73.6	12.8	
9/3/2021		5.6							
9/27/2021									
2/8/2022	15.2	6						15	
2/10/2022				24.8	2.5	11.8	68.9		74.4
2/11/2022			7.5						

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	3.4
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	3.79
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	6.42
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	7.9
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	6.71
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	7.05
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	8.6
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	15.9 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	8.9
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	18.2
3/24/2020	
3/25/2020	12.1
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	19.8
3/2/2021	
3/3/2021	
3/4/2021	32.2
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	4.1
2/8/2022	9.9
2/10/2022	
2/11/2022	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					12	2.5			
6/2/2016				1.3				1.3	28
7/25/2016						2.16		1.17	
7/26/2016				1.24	11				24.5
8/30/2016		20.9							
8/31/2016			9.31						
9/1/2016	13.9								
9/13/2016					11.8	2.21			
9/14/2016							23.5		
9/15/2016				1.17					27
9/19/2016								1.05	
11/1/2016					11			1.14	25.6
11/2/2016				1.23					
11/4/2016						2.67	23.7		
11/14/2016		18.6							
11/15/2016	13.5								
11/28/2016			9.47 (B)						
12/15/2016							23.1		
1/10/2017				1.24					
1/11/2017					11.2				27.5
1/16/2017						2.45	23.3	1.23	
2/21/2017								1.25	
2/22/2017			10.4						
2/24/2017		16.1							
2/27/2017	12.5								
3/1/2017									
3/2/2017					11	2.57			27.5
3/3/2017							25.1		
3/8/2017				1.21					
4/26/2017				1.14				1.03	30.4
4/27/2017					11.1	2.38			
4/28/2017							30.7		
5/8/2017		14.6	14.2						
5/9/2017	14.4								
5/26/2017							26.2		
6/27/2017					13.8	2.36			
6/28/2017							26.1		29.8
6/30/2017				1.24				1.13	
7/11/2017		14.3							
7/13/2017	14.1								
7/17/2017			14.1						
10/3/2017					14	2.21	26.7		
10/4/2017								1.09	29.7
10/5/2017				1.11					
10/10/2017		12.1							
10/11/2017	12.4								
10/16/2017			13.6						
2/19/2018			<25						
4/2/2018		<25							
4/4/2018	<25								
6/5/2018					15.2 (J)				
6/6/2018						2.3			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							25		29.1
6/8/2018				1.1					
6/11/2018								1.1	
8/6/2018			11.4 (J)						
9/19/2018		11.1 (J)							
9/20/2018	12 (J)								
10/1/2018				0.99	15.1	1.8	25		26.9
10/2/2018								1.1	
2/25/2019			12.7 (J)						
3/27/2019		10.8 (J)							
3/28/2019	11.3 (J)				13.3 (J)	2.2			
3/29/2019				1.1			23.5 (J)		
4/1/2019								1.3	30.1
6/12/2019			18.9						
9/24/2019					15.8	2.3	26.4		
9/25/2019				1.1				1.1	29.5
9/26/2019	12.1								
10/8/2019		9.7	28.3						
3/17/2020		14.8	24.3						
3/18/2020				1.1		2.1			
3/19/2020					15		27.4	1.2	31.5
3/25/2020	13.2								
9/22/2020		10.1	31						
9/23/2020					14.1	1.8	26.3		28.6
9/24/2020	12							1.1	
9/25/2020				1.3					
3/1/2021		10.3						1.2	
3/2/2021			34.2	1.2					
3/3/2021					14.1	1.8	25.6		29.8
3/4/2021	13								
8/19/2021		9.6		1.2	14.2	2		1.2	28.1
8/20/2021			26.5						
8/27/2021							22.6		
9/1/2021	12.1								
2/8/2022	12.7	9.4	25.6						
2/9/2022					14.9	2.1	23.4		30.3
2/10/2022				1.3					
2/11/2022								1.5	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	21
6/2/2016	
7/25/2016	20.3
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	19.7
9/15/2016	
9/19/2016	
11/1/2016	18.4
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	20.3
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	18.6
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	25.6
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	23.9
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	22.1
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	21.9 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	19.7
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	20.4 (J)
6/12/2019	
9/24/2019	
9/25/2019	22.4
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	21.9
3/25/2020	
9/22/2020	
9/23/2020	23.6
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	20.6
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	24.7
9/1/2021	
2/8/2022	
2/9/2022	23.7
2/10/2022	
2/11/2022	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			1.9				
8/1/2016			1.83				
9/2/2016				11.2			
9/20/2016			1.78				
11/8/2016			1.77				
11/14/2016				7.79			
1/17/2017			1.7				
2/28/2017				8.37			
3/8/2017			1.77				
5/2/2017			1.57				
5/9/2017				13.9			
7/7/2017			1.8				
7/13/2017				16.6			
9/22/2017				18.4			
9/29/2017				16.1			
10/5/2017			1.7				
10/6/2017				16.6			
10/11/2017				18.1			
10/12/2017		122					
11/21/2017		118					
1/11/2018		119					
2/20/2018		124					
4/3/2018		114					
6/12/2018			1.8				
6/13/2018				18.7 (J)			
6/29/2018		129					
8/6/2018		114					
9/24/2018		115					
9/26/2018			1.7	19.8 (J)			
10/16/2018	6.5						
4/4/2019			1.9	16.9 (J)			
9/26/2019	4.7		1.7	11.7			
3/25/2020	7.9			10.6			
3/26/2020			1.7				
9/23/2020			2.4				
9/24/2020	3.6						
9/25/2020		108					
10/7/2020				9.9			
3/3/2021			2.4				
3/4/2021	4.4	118		5.6			
8/25/2021		106					
9/1/2021	7.9		2.3				
9/3/2021				4.1	64		
2/10/2022	8.8	106	2.2				54.7
2/11/2022				4.6	49	27.3	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.8	6.4	
6/7/2016						4.5			1.9
7/27/2016						4.5	6.7	6.2	1.9
7/28/2016									
9/16/2016						4.5		6.1	
9/19/2016							7		1.9
11/2/2016									2.6
11/3/2016						5.4	7.5	7.4	
1/11/2017						4.7	6.5	6.1	
1/13/2017									2.3
3/1/2017							6.9	6	
3/2/2017						4.8			
3/6/2017									1.9
4/26/2017							7	6.5	2
5/2/2017						4.6			
6/28/2017							7	6.4	
6/29/2017						4.5			2.6
10/3/2017									
10/4/2017						4.7		6.8	2.6
10/5/2017							7		
6/5/2018									
6/6/2018									2.7
6/7/2018							6.8		
6/11/2018						4.9		6.8	
9/25/2018						5.6	7.9	7.8	3.6
10/16/2018	12.1								
4/2/2019						4.8			
4/3/2019							6.9	6.3	3.1
9/24/2019									
9/25/2019						5.7			2.8
9/26/2019	6.4						7	7.1	
3/24/2020						5	7	6.8	2.7
3/25/2020	7.7								
9/23/2020		2.7		1.8		6.6	7.2	7.2	
9/24/2020	6.6				3.7				2.7
3/3/2021	6.1	2.5		22.9		7.1	7	7.2	2.7
3/4/2021					3.7				
8/25/2021				1.5					
8/26/2021					3.9			7.3	
8/27/2021						8.5	7.4		2.8
9/1/2021	5.7	2.6							
2/9/2022						10.9	7.5	7	2.8
2/10/2022	5.3	2.5	3.2	1.4	3.9				

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Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	2.8
7/27/2016	
7/28/2016	2.6
9/16/2016	
9/19/2016	2.4
11/2/2016	
11/3/2016	2.9
1/11/2017	
1/13/2017	2.5
3/1/2017	
3/2/2017	
3/6/2017	2.1
4/26/2017	2.1
5/2/2017	
6/28/2017	
6/29/2017	2.8
10/3/2017	2.2
10/4/2017	
10/5/2017	
6/5/2018	1.7
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	2.2
10/16/2018	
4/2/2019	2.5
4/3/2019	
9/24/2019	3.1
9/25/2019	
9/26/2019	
3/24/2020	2.8
3/25/2020	
9/23/2020	
9/24/2020	2
3/3/2021	
3/4/2021	1.8
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	1.8
2/9/2022	1.7
2/10/2022	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			3.7	7.2	4.3				
6/7/2016						2.9			
7/26/2016			3.6	6.6	4.4				
7/28/2016						3.5			
8/30/2016									4.4
8/31/2016									
9/14/2016			3.4	6.6	3.8				
9/20/2016						2.4			
11/2/2016			4.5	7.6					
11/4/2016					4.8				
11/8/2016						2.8			
11/16/2016									4.7
1/12/2017				6.8	3.8				
1/13/2017			4.2						
1/16/2017						1.8			
2/24/2017									
2/27/2017									4.7
3/6/2017			3.6						
3/7/2017				6.8	4.5				
3/9/2017						1.7			
5/1/2017			4.3	7.2					
5/2/2017					4.6	1.8			
5/10/2017									4.4
6/27/2017				7	4.3				
6/29/2017			4.2						
7/10/2017						1.9			
7/11/2017									4.7
10/3/2017				6.5	4.2				
10/5/2017			4.7						
10/11/2017	2.4					2.4			
10/12/2017		3.8					6	3.1	4.3
11/20/2017	1.8	4.4					6.9		
11/21/2017								4.2	
1/10/2018		4.6							
1/11/2018	1.6							3.8	
1/12/2018							6.6		
2/19/2018		4.6						3.5	
2/20/2018	2						6.2		
4/3/2018	3.3	5.9					6.9	4.4	
4/4/2018									3.7
6/6/2018				4.7					
6/7/2018			4.4		4.5				
6/12/2018						1.8			
6/27/2018								3.6	
6/28/2018	2.1	5					6.4		
8/7/2018	1.2	4.3					5.5	3.3	
9/20/2018									3.8
9/24/2018	1.3	4.9					5.9	3.3	
9/26/2018			4.8	4.8	5.1				
9/27/2018						2			
3/26/2019		4.4							
3/27/2019	1.4						6.2		3.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								3.2	
4/3/2019			4.3	4	4.2				
4/4/2019						1.7			
9/24/2019				3.7	4.5				
9/25/2019			4.5						
9/27/2019						1.7			
10/9/2019	2.1	5.1					5	3.3	4.1
3/24/2020		4.7		3.5	4.3				
3/25/2020	1.9		3.9				4	2.7	3.2
3/26/2020						1.6			
9/22/2020			4.5	3.6	4.2				
9/24/2020	2.7	5				2			3.3
9/25/2020							4	3	
3/2/2021				3.2	4.3				
3/3/2021			4.1						
3/4/2021	4.9	4.9				1.8	3.9	3.4	2.7
8/25/2021						2.5			3.4
8/26/2021	7.2		4.4	3.4	4.3		4.1	3.6	
9/3/2021		5.5							
9/27/2021									
2/8/2022	7.4	6.2						3.5	
2/10/2022				3.2	4.4	1.9	4		3.3
2/11/2022			4.1						

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	1.5
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	1.7
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	1.5
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	1.2
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	1.5
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	1.6
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	1.8
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	1.9
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	1.8
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	2.3
3/24/2020	
3/25/2020	1.8
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	2.3
3/2/2021	
3/3/2021	
3/4/2021	2.1
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	1.1
2/8/2022	2.1
2/10/2022	
2/11/2022	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					1.3	1.6			
6/2/2016				4.1				1.9	1.4
7/25/2016						1.4		1.7	
7/26/2016				4	1.2				1.6
8/30/2016		5.2							
8/31/2016			4						
9/1/2016	5.3								
9/13/2016					1.1	1.3			
9/14/2016							1.1		
9/15/2016				4.2					1.5
9/19/2016								1.6	
11/1/2016					1.3			1.8	1.7
11/2/2016				4.9					
11/4/2016						1.6	1.4		
11/14/2016		6.4							
11/15/2016	5.8								
11/28/2016			4.2						
12/15/2016							2.9		
1/10/2017				4.1					
1/11/2017					1.1				1.2
1/16/2017						1.4	0.98	1.7	
2/21/2017								1.7	
2/22/2017			3.7						
2/24/2017		5.5							
2/27/2017	4.6								
3/1/2017									
3/2/2017					1	1.3			1.2
3/3/2017							1.1		
3/8/2017				4.2					
4/26/2017				4.1				1.7	1.2
4/27/2017					1	1.3			
4/28/2017							0.91		
5/8/2017		5.8	4.2						
5/9/2017	5.3								
5/26/2017							0.93		
6/27/2017					1.1	1.4			
6/28/2017							1		1.3
6/30/2017				3.7				1.8	
7/11/2017		5.8							
7/13/2017	4.7								
7/17/2017			3.8						
10/3/2017					1.1	1.7	1.2		
10/4/2017								1.8	1.5
10/5/2017				3.8					
10/10/2017		5.9							
10/11/2017	5.8								
10/16/2017			4.2						
2/19/2018			4.3						
4/2/2018		4.8							
4/4/2018	4.3								
6/5/2018					1.1				
6/6/2018						1.4			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							1		1.2
6/8/2018				3.4					
6/11/2018								2	
8/6/2018			3.8						
9/19/2018		4							
9/20/2018	4.8								
10/1/2018				3.8	1.1	1.4	1.1		1.5
10/2/2018								1.8	
2/25/2019			4.1						
3/27/2019		4.3							
3/28/2019	4.4				1.4	1.5			
3/29/2019				4.2			1.2		
4/1/2019								1.7	1.2
6/12/2019			4.7						
9/24/2019					1.1	1.3	0.95 (J)		
9/25/2019				4.8				1.6	1.1
9/26/2019	5								
10/8/2019		4.4	5.1						
3/17/2020		4.1	4.8						
3/18/2020				5.2		1.4			
3/19/2020					1.1		0.97 (J)	1.8	1.2
3/25/2020	4.1								
9/22/2020		4.2	4.2						
9/23/2020					0.99 (J)	1.2	0.88 (J)		1.1
9/24/2020	4.6							1.5	
9/25/2020				5.3					
3/1/2021		3.7						1.6	
3/2/2021			4.1	4.9					
3/3/2021					0.96 (J)	1.2	0.86 (J)		1.1
3/4/2021	4.1								
8/19/2021		3.5		5	1.1	1.3		1.6	1.1
8/20/2021			5.2						
8/27/2021							0.99 (J)		
9/1/2021	4.4								
2/8/2022	4.2	3.2	5.7						
2/9/2022					1	1.3	1 (J)		1.1
2/10/2022				4.7					
2/11/2022								2.1	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	1.3
6/2/2016	
7/25/2016	1.3
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	1.3
9/15/2016	
9/19/2016	
11/1/2016	1.4
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	1.1
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	1.1
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	1.1
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	1.2
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	1.2
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	1.2
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.2
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	1.1
6/12/2019	
9/24/2019	
9/25/2019	1.1
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	1.1
3/25/2020	
9/22/2020	
9/23/2020	1
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	0.99 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.1
9/1/2021	
2/8/2022	
2/9/2022	1.1
2/10/2022	
2/11/2022	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			5.9				
8/1/2016			5.3				
9/2/2016				6.3			
9/20/2016			5.5				
11/8/2016			6.4				
11/14/2016				6.7			
1/17/2017			5.5				
2/28/2017				5.4			
3/8/2017			5.4				
5/2/2017			5.7				
5/9/2017				5.7			
7/7/2017			5.7				
7/13/2017				5.4			
9/22/2017				6.9			
9/29/2017				5.5			
10/5/2017			6				
10/6/2017				5.5			
10/11/2017				6.4			
10/12/2017		5.4					
11/21/2017		6.5					
1/11/2018		5					
2/20/2018		5.2					
4/3/2018		4.8					
6/12/2018			6.2				
6/13/2018				5.6			
6/29/2018		5.7					
8/6/2018		4.8					
9/24/2018		4.9					
9/26/2018			6.9	6			
10/16/2018	8.5						
4/4/2019			5.9	5.4			
9/26/2019	7.5		6.5	7.1			
3/25/2020	6.8			6.3			
3/26/2020			5.4				
9/23/2020			9.3				
9/24/2020	7.5						
9/25/2020		4.3					
10/7/2020				8.7			
3/3/2021			8.6				
3/4/2021	6.7	3.9		6.6			
8/25/2021		7					
9/1/2021	6.3		8.9				
9/3/2021				7	7.1		
2/10/2022	5.6	4.2	8.7				4.2
2/11/2022				6.6	12.5	6.7	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0012 (J)	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							0.0012 (J)	<0.005	
3/2/2017						0.001 (J)			
3/6/2017									<0.005
4/26/2017							0.0005 (J)	0.0003 (J)	0.0007 (J)
5/2/2017						0.0007 (J)			
6/28/2017							0.0006 (J)	<0.005	
6/29/2017						0.0006 (J)			0.0005 (J)
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
2/11/2020						0.00087 (J)	0.001 (J)	0.00088 (J)	
2/12/2020									0.00045 (J)
3/24/2020						0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)
3/25/2020	0.00058 (J)								
9/23/2020		0.00071 (J)		<0.005		0.00098 (J)	0.00092 (J)	0.0012 (J)	
9/24/2020	0.00074 (J)				<0.005				0.00076 (J)
2/9/2021	0.001 (J)	0.0011 (J)		0.00057 (J)	<0.005		0.00083 (J)	0.0013 (J)	0.00056 (J)
3/3/2021	0.00076 (J)	0.0012 (J)		<0.005		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	0.003 (J)							
2/9/2022						<0.005	<0.005	0.0014 (J)	<0.005
2/10/2022	0.0013 (J)	<0.005	0.0011 (J)	<0.005	0.0016 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.005
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	<0.005
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	<0.005
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	<0.005
3/5/2019	<0.005
3/6/2019	
2/11/2020	
2/12/2020	<0.005
3/24/2020	<0.005
3/25/2020	
9/23/2020	
9/24/2020	<0.005
2/9/2021	<0.005
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	<0.005
2/10/2022	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						<0.005			
7/26/2016			<0.005	<0.005	<0.005				
7/28/2016						0.0008 (J)			
8/30/2016									<0.005
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									<0.005
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									<0.005
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	0.0004 (J)					
5/2/2017					<0.005	0.0007 (J)			
5/10/2017									0.0006 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									<0.005
10/11/2017	<0.005								
10/12/2017		<0.005					0.0005 (J)	<0.005	<0.005
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/27/2018								<0.005	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									<0.005
9/24/2018	<0.005	<0.005					<0.005	<0.005	
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			
8/21/2019	<0.005	0.00053 (J)							
8/22/2019							<0.005	<0.005	<0.005
10/9/2019	<0.005	0.0012 (J)					<0.005	<0.005	0.00043 (J)
2/12/2020	<0.005	0.00065 (J)	<0.005	<0.005	0.00043 (J)				
3/24/2020		0.00055 (J)		<0.005	0.0014 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/25/2020	<0.005		0.00058 (J)				0.00065 (J)	0.00039 (J)	0.0013 (J)
3/26/2020						0.0019 (J)			
9/22/2020			<0.005	0.0011 (J)	<0.005				
9/24/2020	<0.005	<0.005				0.0011 (J)			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.00086 (J)	<0.005		
2/10/2021	<0.005	<0.005						<0.005	<0.005
3/2/2021				<0.005	<0.005				
3/3/2021			0.0013 (J)						
3/4/2021	<0.005	<0.005				0.00078 (J)	<0.005	<0.005	<0.005
8/25/2021						<0.005			<0.005
8/26/2021	<0.005		<0.005	<0.005	<0.005		<0.005	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	<0.005	<0.005						<0.005	
2/10/2022				<0.005	<0.005	<0.005	<0.005		<0.005
2/11/2022			<0.005						

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0005 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.005
9/24/2018	
3/4/2019	
3/6/2019	
8/21/2019	0.00062 (J)
8/22/2019	
10/9/2019	0.00074 (J)
2/12/2020	
3/24/2020	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00071 (J)
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	
2/11/2022	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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	0.0013 (J)
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	0.0013 (J)								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	<0.005		
11/14/2016		0.0093 (J)							
11/15/2016	0.0014 (J)								
11/28/2016			<0.005						
12/15/2016							<0.005		
1/10/2017				<0.005					
1/11/2017					<0.005				<0.005
1/16/2017						<0.005	<0.005	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		<0.005							
2/27/2017	0.0016 (J)								
3/1/2017									
3/2/2017					0.0009 (J)	0.0004 (J)			0.0006 (J)
3/3/2017							0.0005 (J)		
3/8/2017				<0.005					
4/26/2017				<0.005				0.0016 (J)	<0.005
4/27/2017					<0.005	<0.005			
4/28/2017							0.0004 (J)		
5/8/2017		<0.005	<0.005						

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0017 (J)								
5/26/2017							<0.005		
6/27/2017					<0.005	<0.005			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	0.0019 (J)								
7/17/2017			<0.005						
10/10/2017		<0.005							
10/11/2017	0.0014 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.005								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0017 (J)								
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					<0.005	<0.005	<0.005		<0.005
3/28/2019					<0.005	0.0021 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								<0.005	<0.005
6/12/2019			<0.005						
8/19/2019			<0.005						
8/20/2019		<0.005							
9/24/2019					0.00072 (J)	0.0028 (J)	<0.005		
9/25/2019				<0.005				<0.005	0.0014 (J)
10/8/2019			<0.005						
2/10/2020					0.00042 (J)	<0.005			
2/11/2020							<0.005		
2/12/2020				<0.005				<0.005	<0.005
3/17/2020			<0.005						
3/18/2020				<0.005		0.00044 (J)			
3/19/2020					0.00084 (J)		0.00048 (J)	<0.005	<0.005
3/25/2020	0.0019 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020		<0.005	<0.005						
9/23/2020					0.00062 (J)	0.00058 (J)	<0.005		<0.005
9/24/2020	0.0019 (J)							<0.005	
9/25/2020				<0.005					
2/9/2021	0.002 (J)								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021		<0.005						<0.005	
3/2/2021			<0.005	<0.005					
3/3/2021					<0.005	<0.005	<0.005		<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/4/2021	0.0017 (J)								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	0.002 (J)								
2/8/2022	0.0021 (J)	<0.005	<0.005						
2/9/2022					<0.005	<0.005	<0.005		<0.005
2/10/2022				<0.005					
2/11/2022								<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0004 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0019 (J)
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.005				
8/1/2016			<0.005				
9/2/2016				<0.005			
9/20/2016			<0.005				
11/8/2016			<0.005				
11/14/2016				0.0035			
1/17/2017			<0.005				
2/28/2017				<0.005			
3/8/2017			<0.005				
5/2/2017			0.0011 (J)				
5/9/2017				<0.005			
7/7/2017			<0.005				
7/13/2017				<0.005			
9/22/2017				<0.005			
9/29/2017				<0.005			
10/6/2017				<0.005			
10/12/2017		0.0019 (J)					
11/21/2017		0.0017 (J)					
1/11/2018		0.001 (J)					
2/20/2018		<0.005					
3/30/2018			<0.005	<0.005			
4/3/2018		<0.005					
6/29/2018		<0.005					
8/6/2018		<0.005					
9/24/2018		<0.005					
3/5/2019			<0.005				
3/6/2019				<0.005			
3/25/2020	0.0012 (J)			0.00074 (J)			
3/26/2020			0.00094 (J)				
9/23/2020			<0.005				
9/24/2020	0.00061 (J)						
9/25/2020		<0.005					
10/7/2020				0.0013 (J)			
2/9/2021		<0.005	0.0011 (J)				
2/10/2021	0.0006 (J)			0.00094 (J)			
3/3/2021			<0.005				
3/4/2021	0.0007 (J)	<0.005		<0.005			
8/25/2021		<0.005					
9/1/2021	<0.005		<0.005				
9/3/2021				<0.005	<0.005		
2/10/2022	<0.005	<0.005	<0.005				<0.005
2/11/2022				<0.005	<0.005	0.0011 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	0.00061 (J)	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	0.0004 (J)	<0.005
7/28/2016									
9/16/2016						<0.005		0.0008 (J)	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.032								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	0.015						<0.005	<0.005	
1/3/2020	<0.005								
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		0.0025 (J)		0.00052 (J)		<0.005	<0.005	<0.005	
9/24/2020	0.01				0.00077 (J)				<0.005
2/9/2021	0.03	0.001 (J)		0.00063 (J)	<0.005		<0.005	<0.005	<0.005
3/3/2021	0.018	0.00082 (J)		0.001 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				0.00041 (J)					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.022	0.00093 (J)							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.011	0.00052 (J)	0.16	0.00044 (J)	<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0056
7/27/2016	
7/28/2016	0.0032 (J)
9/16/2016	
9/19/2016	0.0047 (J)
11/2/2016	
11/3/2016	0.013
1/11/2017	
1/13/2017	0.011
3/1/2017	
3/2/2017	
3/6/2017	0.011
4/26/2017	0.009 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0093 (J)
3/28/2018	
3/29/2018	<0.005
6/5/2018	0.0041 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0044 (J)
10/16/2018	
3/5/2019	0.0039 (J)
3/6/2019	
4/2/2019	0.0039 (J)
4/3/2019	
9/24/2019	0.0032 (J)
9/25/2019	
9/26/2019	
1/3/2020	
2/11/2020	
2/12/2020	0.0081
3/24/2020	0.0061
3/25/2020	
9/23/2020	
9/24/2020	0.0079
2/9/2021	0.009
3/3/2021	
3/4/2021	0.0065
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0068
2/9/2022	0.0078
2/10/2022	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.00082 (J)	<0.005	<0.005				
6/7/2016						<0.005			
7/26/2016			0.0012 (J)	<0.005	<0.005				
7/28/2016						<0.005			
8/30/2016									0.0025 (J)
8/31/2016									
9/14/2016			0.0006 (J)	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.002 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			0.0029 (J)						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									0.0021 (J)
3/6/2017			0.0006 (J)						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	<0.005			
5/10/2017									0.0021 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			0.0005 (J)						
7/10/2017						<0.005			
7/11/2017									0.0014 (J)
10/11/2017	<0.005								
10/12/2017		<0.005					<0.005	0.0011 (J)	0.0017 (J)
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								0.0003 (J)	
1/10/2018		<0.005							
1/11/2018	<0.005							0.0003 (J)	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/6/2018				<0.005					
6/7/2018			0.00058 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00069 (J)	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									0.003 (J)
9/24/2018	<0.005	<0.005					<0.005	<0.005	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.00083 (J)	<0.005	<0.005				
4/4/2019						<0.005			
8/21/2019	0.00034 (J)	<0.005							
8/22/2019							<0.005	<0.005	0.0019 (J)
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	<0.005	<0.005					<0.005	<0.005	0.0019 (J)
2/12/2020	0.00034 (J)	<0.005	<0.005	0.00037 (J)	<0.005				
3/24/2020		<0.005		0.00035 (J)	<0.005				
3/25/2020	0.00034 (J)		0.00056 (J)				<0.005	<0.005	0.0018 (J)
3/26/2020						<0.005			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	0.00053 (J)	<0.005				<0.005			0.0017 (J)
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	<0.005		
2/10/2021	0.00098 (J)	<0.005						<0.005	0.0019 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	0.00071 (J)	<0.005				<0.005	<0.005	<0.005	0.0018 (J)
8/25/2021						<0.005			0.0014 (J)
8/26/2021	0.0011 (J)		0.00042 (J)	<0.005	<0.005		<0.005	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	0.0012 (J)	<0.005						<0.005	
2/10/2022				<0.005	<0.005	<0.005	<0.005		0.0017 (J)
2/11/2022			<0.005						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	0.0006 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.0034 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0026 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.0023 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.0016 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.0018 (J)
2/8/2021	
2/9/2021	0.0017 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.0015 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	0.00045 (J)
2/10/2022	
2/11/2022	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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				0.035	<0.005
7/25/2016						0.0008 (J)		0.0312	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		0.0073 (J)							
8/31/2016			0.0053 (J)						
9/1/2016	<0.005								
9/13/2016					<0.005	0.0009 (J)			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								0.0275	
11/1/2016					<0.005			0.0255	<0.005
11/2/2016				<0.005					
11/4/2016						0.0025 (J)	<0.005		
11/14/2016		0.0115							
11/15/2016	0.0006 (J)								
11/28/2016			0.0036 (J)						
12/15/2016							<0.005		
1/10/2017				<0.005					
1/11/2017					<0.005				<0.005
1/16/2017						0.0027 (J)	<0.005	0.0245	
2/21/2017								0.0272	
2/22/2017			0.0049 (J)						
2/24/2017		0.0106							
2/27/2017	0.0008 (J)								
3/1/2017									
3/2/2017					<0.005	0.0022 (J)			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				0.0244	<0.005
4/27/2017					<0.005	0.0018 (J)			
4/28/2017							<0.005		
5/8/2017		0.0099 (J)	0.0059 (J)						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.005								
5/26/2017							<0.005		
6/27/2017					<0.005	0.0023 (J)			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				0.0233	
7/11/2017		0.0096 (J)							
7/13/2017	0.0005 (J)								
7/17/2017			0.0046 (J)						
10/10/2017		0.0036 (J)							
10/11/2017	0.0006 (J)								
10/16/2017			0.0034 (J)						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		0.023	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					<0.005				
6/6/2018						<0.005			
6/7/2018							<0.005		<0.005
6/8/2018				<0.005					
6/11/2018								0.023	
8/6/2018			0.003 (J)						
9/19/2018		0.0036 (J)							
9/20/2018	<0.005								
10/1/2018				<0.005	<0.005	0.00059 (J)	<0.005		<0.005
10/2/2018								0.022	
2/25/2019			0.001 (J)						
2/26/2019				<0.005				0.021	
2/27/2019					<0.005	0.00064 (J)	<0.005		<0.005
3/28/2019					<0.005	0.00091 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								0.022	<0.005
6/12/2019			0.003 (J)						
8/19/2019			0.0035 (J)						
8/20/2019		0.00092 (J)							
9/24/2019					<0.005	0.0013 (J)	<0.005		
9/25/2019				<0.005				0.016	<0.005
9/26/2019	<0.005								
10/8/2019		0.0014 (J)	0.0039 (J)						
2/10/2020					<0.005	0.0016 (J)			
2/11/2020							<0.005		
2/12/2020				<0.005				0.014	<0.005
3/17/2020		0.0017 (J)	0.003 (J)						
3/18/2020				<0.005		0.00087 (J)			
3/19/2020					<0.005		<0.005	0.014	<0.005
3/25/2020	<0.005								
8/26/2020			0.2 (O)						
8/27/2020		0.0011 (J)							
9/22/2020		0.00097 (J)	0.16 (O)						
9/23/2020					<0.005	0.0013 (J)	<0.005		<0.005
9/24/2020	<0.005							0.0064	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				<0.005					
2/9/2021	<0.005								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								0.0078	
2/12/2021					0.00086 (J)	0.0028 (J)			
3/1/2021		0.001 (J)						0.0061	
3/2/2021			0.21 (O)	<0.005					
3/3/2021					<0.005	0.003 (J)	<0.005		<0.005
3/4/2021	<0.005								
8/19/2021		0.00099 (J)		<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005
8/20/2021			0.074 (O)						
8/27/2021							<0.005		
9/1/2021	<0.005								
2/8/2022	<0.005	0.0013 (J)	0.072 (o)						
2/9/2022					0.00072 (J)	0.0023 (J)	<0.005		<0.005
2/10/2022				<0.005					
2/11/2022								0.0038 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.005
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.005				
8/1/2016			<0.005				
9/2/2016				0.0006 (J)			
9/20/2016			<0.005				
11/8/2016			<0.005				
11/14/2016				<0.005			
1/17/2017			<0.005				
2/28/2017				<0.005			
3/8/2017			<0.005				
5/2/2017			<0.005				
5/9/2017				<0.005			
7/7/2017			<0.005				
7/13/2017				<0.005			
9/22/2017				<0.005			
9/29/2017				<0.005			
10/6/2017				<0.005			
10/12/2017		0.0078 (J)					
11/21/2017		0.0097 (J)					
1/11/2018		0.0131					
2/20/2018		0.0162					
3/30/2018			<0.005	<0.005			
4/3/2018		0.015					
6/12/2018			<0.005				
6/13/2018				<0.005			
6/29/2018		0.013					
8/6/2018		0.0053 (J)					
9/24/2018		0.0071 (J)					
9/26/2018			<0.005	<0.005			
10/16/2018	<0.005						
3/5/2019			<0.005				
3/6/2019				<0.005			
4/4/2019			<0.005	<0.005			
9/26/2019	<0.005		<0.005	0.00048 (J)			
3/25/2020	0.0059			0.00038 (J)			
3/26/2020			<0.005				
9/23/2020			<0.005				
9/24/2020	<0.005						
9/25/2020		0.0023 (J)					
10/7/2020				0.00086 (J)			
2/9/2021		0.0023 (J)	<0.005				
2/10/2021	<0.005			0.00038 (J)			
3/3/2021			<0.005				
3/4/2021	<0.005	0.003 (J)		<0.005			
8/25/2021		0.0068					
9/1/2021	<0.005		<0.005				
9/3/2021				<0.005	<0.005		
2/10/2022	<0.005	0.0036 (J)	<0.005				0.033
2/11/2022				<0.005	<0.005	0.0011 (J)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0804 (U)	0.301 (U)	
6/7/2016						0.158 (U)			0.0191 (U)
7/27/2016						0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)
7/28/2016									
9/16/2016						1.04		0.915 (U)	
9/19/2016							1.58		0.826 (U)
11/2/2016									0.791 (U)
11/3/2016						0.314 (U)	0.342 (U)	0.928 (U)	
1/11/2017						0.34 (U)	0.365 (U)	0.502 (U)	
1/13/2017									0.296 (U)
3/1/2017							0.395 (U)	0.202 (U)	
3/2/2017						0.746 (U)			
3/6/2017									0.518 (U)
4/26/2017							0.507 (U)	0.264 (U)	0.282 (U)
5/2/2017						0.111 (U)			
6/28/2017							0.892	0.636 (U)	
6/29/2017						0.576 (U)			1.12
3/28/2018						0.438 (U)	0.92 (U)	0.56 (U)	
3/29/2018									1.73
6/5/2018									
6/6/2018									0.694 (U)
6/7/2018							0.668 (U)		
6/11/2018						0.901 (U)		0.649 (U)	
9/25/2018						0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)
10/16/2018	0.384 (U)								
3/5/2019						0.272 (U)		0.474 (U)	0.84 (U)
3/6/2019							0.714 (U)		
4/2/2019						0.847 (U)			
4/3/2019							0.385 (U)	0.429 (U)	1.01
9/24/2019									
9/25/2019						0.412 (U)			1.18 (U)
9/26/2019							0.386 (U)	0.222 (U)	
2/11/2020						0.461 (U)	1.48	0.597 (U)	
2/12/2020									1.11 (U)
3/24/2020						0.534 (U)	0.632 (U)	0.262 (U)	1.88
3/25/2020	0.525 (U)								
9/23/2020		0.0813 (U)		1.2 (U)		0.466 (U)	0.887 (U)	0.43 (U)	
9/24/2020	0.547 (U)				0.668 (U)				0.611 (U)
2/9/2021	0.866 (U)	0.492 (U)		0.659 (U)	1.07 (U)	0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)
3/3/2021	0.377 (U)	0.563 (U)		1.07		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)
3/4/2021					1.46				
8/25/2021				0.0991 (U)					
8/26/2021					0.724 (U)			0.686 (U)	
8/27/2021						0.9 (U)	0.761 (U)		0.779 (U)
9/1/2021	0.676 (U)	0.761 (U)							
2/9/2022						0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)
2/10/2022	0.233 (U)	0 (U)	0.988 (U)	0.702 (U)	1.25 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.347
7/27/2016	
7/28/2016	0.815 (U)
9/16/2016	
9/19/2016	0.862 (U)
11/2/2016	
11/3/2016	0.797 (U)
1/11/2017	
1/13/2017	0.72 (U)
3/1/2017	
3/2/2017	
3/6/2017	0.518 (U)
4/26/2017	1.13 (U)
5/2/2017	
6/28/2017	
6/29/2017	0.841 (U)
3/28/2018	
3/29/2018	1.91
6/5/2018	1.39
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	1.62
10/16/2018	
3/5/2019	0.985 (U)
3/6/2019	
4/2/2019	1.42
4/3/2019	
9/24/2019	1.35
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	1.61
3/24/2020	1.24 (U)
3/25/2020	
9/23/2020	
9/24/2020	1.8
2/9/2021	1.24
3/3/2021	1.2
3/4/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	1.86
2/9/2022	1.94
2/10/2022	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.721	5.11	0.614				
6/7/2016						0.303 (U)			
7/26/2016			1.26	6.92	1.47				
7/28/2016						0.386 (U)			
8/30/2016									2.99
8/31/2016									
9/14/2016			0.901 (U)	3.96	1.27				
9/20/2016						1.47			
11/2/2016			1.09 (U)	4.53					
11/4/2016					0.434 (U)				
11/8/2016						0.22 (U)			
11/16/2016									4.01
1/12/2017				4.43	0.202 (U)				
1/13/2017			1.19						
1/16/2017						0.147 (U)			
2/24/2017									
2/27/2017									2.5
3/6/2017			0.669 (U)						
3/7/2017				4.8	0.0674 (U)				
3/9/2017						0.0892 (U)			
5/1/2017			0.803 (U)	4.16					
5/2/2017					0.444 (U)	0.149 (U)			
5/10/2017									2.55
6/27/2017				2.8	0.77 (U)				
6/29/2017			1.35						
7/10/2017						0.815 (U)			
7/11/2017									3.94
10/11/2017	0.586 (U)								
10/12/2017		1.49					1.24	0.641 (U)	3.57
11/20/2017	0.816 (U)	0.918 (U)					0.342 (U)		
11/21/2017								2.01	
1/10/2018		1.05							
1/11/2018	0.841 (U)							0.919 (U)	
1/12/2018							1.04		
2/19/2018		2.05						1.82	
2/20/2018	1.58						1.6 (U)		
3/29/2018			0.703 (U)	3.42	0.648 (U)				
3/30/2018						0.659 (U)			
4/3/2018	0.385 (U)	0.68 (U)					0.726 (U)	0.911 (U)	
4/4/2018									1.9
6/6/2018				3.99					
6/7/2018			0.628 (U)		0.745 (U)				
6/12/2018						1.03 (U)			
6/27/2018								0.429 (U)	
6/28/2018	0.283 (U)	1.28					1.06 (U)		
8/7/2018	0.332 (U)	1.16					1.21	0.579 (U)	
9/20/2018									1.94
9/24/2018	0.767 (U)	0.965 (U)					1.52	1.39	
9/26/2018			0.756 (U)	2.73	0.377 (U)				
9/27/2018						1.06 (U)			
3/4/2019			1.21 (U)	4.43	1 (U)				
3/6/2019						0.736 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			1.07 (U)	4.79	0.43 (U)				
4/4/2019						0.474 (U)			
8/21/2019	1.01 (U)	1.24 (U)							
8/22/2019							1.97	2.03	1.59
9/24/2019				4.06	0.699 (U)				
9/25/2019			1.86						
9/27/2019						0.684 (U)			
10/8/2019	1.02 (U)	0.866 (U)					0.751 (U)	0.609 (U)	0.995 (U)
2/12/2020	0.45 (U)	1.83	1.25	4.02	0.913 (U)				
3/24/2020		1.27 (U)		3.52					
3/25/2020	0.377 (U)		0.766 (U)				0.321 (U)	0.568 (U)	1.17 (U)
3/26/2020						0.281 (U)			
9/22/2020			0.795 (U)	2.98	0.428 (U)				
9/24/2020	0.568 (U)	0.634 (U)				0.788 (U)			0.751 (U)
9/25/2020							0.246 (U)	0.769 (U)	
2/8/2021				2.89	0.613 (U)				
2/9/2021			0.626 (U)			0.464 (U)	0.626 (U)		
2/10/2021	0.518 (U)	0.783 (U)						0.548 (U)	0.612 (U)
3/2/2021				1.67	0.579 (U)				
3/3/2021			1						
3/4/2021	0.636 (U)	0.818 (U)				0.771 (U)	0.816 (U)	1.23	1.02
8/25/2021						0.624 (U)			0.978 (U)
8/26/2021	0.674 (U)		1.17 (U)	4.68	0.798 (U)		0.427 (U)	0.356 (U)	
9/3/2021		0.971 (U)							
9/27/2021									
2/8/2022	0.834	0.534 (U)						0.594 (U)	
2/10/2022				3.33	0.375 (U)	0.197 (U)	0.791 (U)		0.307 (U)
2/11/2022			0.996						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.926 (U)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.773 (U)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.661 (U)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	1.27
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	1.02
10/11/2017	
10/12/2017	1.58
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	1.71
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	2.8
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	3.16
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/8/2019	3.65
2/12/2020	
3/24/2020	
3/25/2020	3.04
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	4.75
2/8/2021	
2/9/2021	6.38
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	6.02
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	1.54
2/8/2022	3.11
2/10/2022	
2/11/2022	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.321 (U)	0.42			
6/2/2016				0.329 (U)				0.0652 (U)	2.51
7/25/2016						1.83		3.01	
7/26/2016				1.51	0.707 (U)				3.82
8/30/2016		1.09							
8/31/2016			1.2						
9/1/2016	1.2								
9/13/2016					1.22	0.841			
9/14/2016							0.98 (U)		
9/15/2016				1.04 (U)					4.24
9/19/2016								0.871 (U)	
11/1/2016					0.805 (U)			0.307 (U)	3.92
11/2/2016				0.496 (U)					
11/4/2016						0.166 (U)	0.277 (U)		
11/15/2016	0.645 (U)								
11/28/2016			0.264 (U)						
12/15/2016		1 (U)					0.071 (U)		
1/10/2017				0.376 (U)					
1/11/2017					0.705 (U)				2.52
1/16/2017						0	0.44 (U)	0.284 (U)	
2/21/2017								0.503 (U)	
2/22/2017			1.06 (U)						
2/24/2017		0.504 (U)							
2/27/2017	0.244 (U)								
3/1/2017									
3/2/2017					0.251 (U)	0.504 (U)			3.13
3/3/2017							0.448 (U)		
3/8/2017				0.0745 (U)					
4/26/2017				0.282 (U)				0.204 (U)	2.35
4/27/2017					1.08	0.593 (U)			
4/28/2017							0.548 (U)		
5/8/2017		0.455 (U)	0.187 (U)						
5/9/2017	0.519 (U)								
5/26/2017							0 (U)		
6/27/2017					1.02 (U)	0.657 (U)			
6/28/2017							0.608 (U)		2.6
6/30/2017				0.994				0.738 (U)	
7/11/2017		0.471 (U)							
7/13/2017	0.5 (U)								
7/17/2017			1.42						
10/10/2017		0.649 (U)							
10/11/2017	1.41								
10/16/2017			1.17						
2/19/2018			1.58 (D)						
3/27/2018				0.189 (U)		0.39 (U)		0.31 (U)	
3/28/2018							0.412 (U)		3
3/29/2018					0.503 (U)				
4/2/2018		0.512 (U)							
4/4/2018	0.442 (U)								
6/5/2018					0.771 (U)				
6/6/2018						2.8			
6/7/2018							0.73 (U)		2.79

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/8/2018				0.218 (U)					
6/11/2018								0.608 (U)	
8/6/2018			0.196 (U)						
9/19/2018		0.789 (U)							
9/20/2018	1.14 (U)								
10/1/2018				1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14
10/2/2018								0.97 (U)	
2/26/2019				0.202 (U)				0.524 (U)	
2/27/2019					1.21 (U)	0.637 (U)	0.635 (U)		3.79
3/28/2019					1.13 (U)	0.125 (U)			
3/29/2019				0 (U)			0.224 (U)		
4/1/2019								1.02 (U)	4.33
8/19/2019			1.39						
8/20/2019		2.44							
9/24/2019					1.22 (U)	0.949 (U)	0.429 (U)		
9/25/2019				0.707 (U)				1.02 (U)	4.2
9/26/2019	1.16 (U)								
10/8/2019		1.72	1.32 (U)						
2/10/2020					1.41	1.25 (U)			
2/11/2020							0.817 (U)		3.87
2/12/2020				1.07 (U)				0.301 (U)	
3/17/2020		1.22 (U)	1 (U)						
3/18/2020				0.207 (U)		0.458 (U)			
3/19/2020					1.1		0.715 (U)	1	3.96
3/25/2020	1.2 (U)								
8/26/2020			1.75						
8/27/2020		1.26 (U)							
9/22/2020		1.06 (U)	0.688 (U)						
9/23/2020					1.35 (U)	0.00884 (U)	0.565 (U)		4.14
9/24/2020	1.57 (U)							0.684 (U)	
9/25/2020				0.603 (U)					
2/9/2021	0.137 (U)								
2/10/2021				0.353 (U)			1.04 (U)		3.65
2/11/2021								0.678 (U)	
2/12/2021					0.366 (U)	0.458 (U)			
3/1/2021		1.2						0.412 (U)	
3/2/2021			0.948 (U)	0.71 (U)					
3/3/2021					0.492 (U)	0.105 (U)	0.459 (U)		3.58
3/4/2021	0.579 (U)								
8/19/2021		1.07 (U)		0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53
8/20/2021			0.528 (U)						
8/27/2021							0.409 (U)		
9/1/2021	0.686 (U)								
2/8/2022	0.201 (U)	0.4 (U)	0.462 (U)						
2/9/2022					1.19	0.422 (U)	0.894 (U)		3.28
2/10/2022				0 (U)				0.268 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.896
6/2/2016	
7/25/2016	2.28
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.821 (U)
9/15/2016	
9/19/2016	
11/1/2016	0.585 (U)
11/2/2016	
11/4/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	1.22
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.877 (U)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.672 (U)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	1.07 (U)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.65 (U)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/8/2018	1.89
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.58
10/2/2018	
2/26/2019	
2/27/2019	3.67
3/28/2019	
3/29/2019	
4/1/2019	2.28
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	1.6
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	1.85
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	2.2
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	1.14 (U)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	2.46
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	2.03
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.34
9/1/2021	
2/8/2022	
2/9/2022	1.91
2/10/2022	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			1.06				
8/1/2016			0.467 (U)				
9/2/2016				0.873 (U)			
9/20/2016			0.853 (U)				
9/22/2016				0.667 (U)			
9/29/2016				1.63			
10/6/2016				0.641 (U)			
11/8/2016			0.433 (U)				
11/14/2016				0.0451 (U)			
1/17/2017			0.0759 (U)				
2/28/2017				1.34 (U)			
3/8/2017			0.479 (U)				
5/2/2017			0.506 (U)				
5/9/2017				0.309 (U)			
7/7/2017			0.713 (U)				
7/13/2017				0.618 (U)			
10/12/2017		1.83					
11/21/2017		1.33					
1/11/2018		1.53					
2/20/2018		2.75					
3/30/2018			0.409 (U)	0.721 (U)			
4/3/2018		1.47					
6/12/2018			0.728 (U)				
6/13/2018				1.04 (U)			
6/29/2018		1.69					
8/6/2018		1.69					
9/24/2018		2.26					
9/26/2018			0.981	0.604 (U)			
10/16/2018	0.363 (U)						
3/5/2019			0.837 (U)				
3/6/2019				0.919 (U)			
4/4/2019				1.05 (U)			
4/9/2019			0.502 (U)				
9/26/2019			0.964 (U)	0.979 (U)			
3/25/2020	0.197 (U)			1.22 (U)			
3/26/2020			0.511 (U)				
9/23/2020			0.786 (U)				
9/24/2020	1.07 (U)						
9/25/2020		1.68 (U)					
10/7/2020				1.58			
2/9/2021		1.52	0.678 (U)				
2/10/2021	0.546 (U)			0.466 (U)			
3/3/2021			0.415 (U)				
3/4/2021	0.397 (U)	1.49		0.0671 (U)			
8/25/2021		1.41					
9/1/2021	0.696 (U)		0.444 (U)				
9/3/2021				0.622 (U)	3.18		
11/4/2021						0.721 (U)	
2/10/2022	1.25 (U)	0.81 (U)	0.846 (U)				0.964 (U)
2/11/2022				0.395 (U)	0.815 (U)	1.52	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.1	<0.1	
6/7/2016						<0.1			<0.1
7/27/2016						<0.1	<0.1	<0.1	<0.1
7/28/2016									
9/16/2016						<0.1		<0.1	
9/19/2016							<0.1		<0.1
11/2/2016									<0.1
11/3/2016						<0.1	<0.1	<0.1	
1/11/2017						<0.1	<0.1	<0.1	
1/13/2017									<0.1
3/1/2017							<0.1	<0.1	
3/2/2017						<0.1			
3/6/2017									<0.1
4/26/2017							<0.1	<0.1	<0.1
5/2/2017						<0.1			
6/28/2017							<0.1	<0.1	
6/29/2017						<0.1			<0.1
10/3/2017									
10/4/2017						<0.1		<0.1	<0.1
10/5/2017							<0.1		
3/28/2018						<0.1	<0.1	<0.1	
3/29/2018									<0.1
6/5/2018									
6/6/2018									<0.1
6/7/2018							<0.1		
6/11/2018						<0.1		<0.1	
9/25/2018						<0.1	<0.1	<0.1	<0.1
10/16/2018	<0.1								
3/5/2019						<0.1		<0.1	<0.1
3/6/2019							<0.1		
4/2/2019						<0.1			
4/3/2019							<0.1	<0.1	<0.1
9/24/2019									
9/25/2019						<0.1			<0.1
9/26/2019	<0.1						<0.1	<0.1	
2/11/2020						<0.1	<0.1	<0.1	
2/12/2020									<0.1
3/24/2020						<0.1	<0.1	<0.1	<0.1
3/25/2020	<0.1								
9/23/2020		<0.1		<0.1		<0.1	<0.1	<0.1	
9/24/2020	<0.1				<0.1				<0.1
2/9/2021	<0.1	<0.1		0.14	<0.1		<0.1	<0.1	<0.1
3/3/2021	<0.1	<0.1		0.14		<0.1	<0.1	<0.1	<0.1
3/4/2021					<0.1				
8/25/2021				<0.1					
8/26/2021					<0.1			<0.1	
8/27/2021						<0.1	<0.1		<0.1
9/1/2021	<0.1	<0.1							
2/9/2022						<0.1	<0.1	<0.1	<0.1
2/10/2022	<0.1	<0.1	<0.1	<0.1	<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.1
7/27/2016	
7/28/2016	0.02 (J)
9/16/2016	
9/19/2016	0.02 (J)
11/2/2016	
11/3/2016	<0.1
1/11/2017	
1/13/2017	<0.1
3/1/2017	
3/2/2017	
3/6/2017	<0.1
4/26/2017	0.04 (J)
5/2/2017	
6/28/2017	
6/29/2017	<0.1
10/3/2017	<0.1
10/4/2017	
10/5/2017	
3/28/2018	
3/29/2018	<0.1
6/5/2018	0.13 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0 (J)
10/16/2018	
3/5/2019	0.32
3/6/2019	
4/2/2019	0.12 (J)
4/3/2019	
9/24/2019	0.15 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.1 (J)
3/24/2020	0.081 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.079 (J)
2/9/2021	0.092 (J)
3/3/2021	
3/4/2021	0.091 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.11
2/9/2022	0.1
2/10/2022	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.1	0.11 (J)	<0.1				
6/7/2016						<0.1			
7/26/2016			<0.1	0.05 (J)	<0.1				
7/28/2016						0.03 (J)			
8/30/2016									0.02 (J)
8/31/2016									
9/14/2016			<0.1	0.04 (J)	<0.1				
9/20/2016						<0.1			
11/2/2016			<0.1	<0.1					
11/4/2016					<0.1				
11/8/2016						<0.1			
11/16/2016									0.07 (J)
1/12/2017				0.04 (J)	<0.1				
1/13/2017			<0.1						
1/16/2017						<0.1			
2/24/2017									
2/27/2017									0.06 (J)
3/6/2017			<0.1						
3/7/2017				<0.1	<0.1				
3/9/2017						<0.1			
5/1/2017			<0.1	<0.1					
5/2/2017					<0.1	<0.1			
5/10/2017									<0.1
6/27/2017				<0.1	<0.1				
6/29/2017			<0.1						
7/10/2017						<0.1			
7/11/2017									<0.1
10/3/2017				<0.1	<0.1				
10/5/2017			<0.1						
10/11/2017	<0.1					<0.1			
10/12/2017		<0.1					<0.1	<0.1	<0.1
11/20/2017	<0.1	<0.1					0.2 (J)		
11/21/2017								<0.1	
1/10/2018		<0.1							
1/11/2018	<0.1							<0.1	
1/12/2018							0.21 (J)		
2/19/2018		<0.1						<0.1	
2/20/2018	0.23						<0.1		
3/29/2018			<0.1	<0.1	<0.1				
3/30/2018						<0.1			
4/3/2018	<0.1	<0.1					0.41	<0.1	
4/4/2018									<0.1
6/6/2018				0.15 (J)					
6/7/2018			<0.1		<0.1				
6/12/2018						<0.1			
6/27/2018								<0.1	
6/28/2018	<0.1	<0.1					0.43		
8/7/2018	0.048 (J)	<0.1					<0.1	0.11 (J)	
9/20/2018									0.041 (J)
9/24/2018	<0.1	<0.1					0.034 (J)	<0.1	
9/26/2018			<0.1	<0.1	<0.1				
9/27/2018						<0.1			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/4/2019			<0.1	0.19 (J)	<0.1				
3/6/2019						<0.1			
3/26/2019		<0.1							
3/27/2019	<0.1						0.24 (J)		<0.1
3/28/2019								0.1 (J)	
4/3/2019			<0.1	0.047 (J)	<0.1				
4/4/2019						0.049 (J)			
8/21/2019	<0.1	<0.1							
8/22/2019							<0.1	<0.1	<0.1
9/24/2019				0.05 (J)	<0.1				
9/25/2019			<0.1						
9/27/2019						0.12 (J)			
10/9/2019	<0.1	<0.1					<0.1	<0.1	<0.1
2/12/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
3/24/2020		<0.1		<0.1	<0.1				
3/25/2020	<0.1		<0.1				<0.1	<0.1	<0.1
3/26/2020						<0.1			
9/22/2020			<0.1	0.056 (J)	<0.1				
9/24/2020	<0.1	<0.1				<0.1			<0.1
9/25/2020							<0.1	<0.1	
2/8/2021				0.055 (J)	<0.1				
2/9/2021			<0.1			<0.1	<0.1		
2/10/2021	<0.1	<0.1						<0.1	<0.1
3/2/2021				<0.1	<0.1				
3/3/2021			<0.1						
3/4/2021	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
8/25/2021						<0.1			<0.1
8/26/2021	0.063 (J)		<0.1	0.061 (J)	<0.1		<0.1	<0.1	
9/3/2021		<0.1							
9/27/2021									
2/8/2022	0.052 (J)	<0.1						<0.1	
2/10/2022				0.055 (J)	<0.1	<0.1	<0.1		<0.1
2/11/2022			<0.1						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.12 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.2 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.21 (J)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.04 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.2 (J)
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	0.1 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.1
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.1
9/24/2018	
9/26/2018	
9/27/2018	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	0.078 (J)
4/3/2019	
4/4/2019	
8/21/2019	0.062 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.1
2/12/2020	
3/24/2020	
3/25/2020	0.073 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.1
2/8/2021	
2/9/2021	0.058 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.063 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.1
2/8/2022	0.066 (J)
2/10/2022	
2/11/2022	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.12 (J)	<0.1			
6/2/2016				<0.1				<0.1	0.62
7/25/2016						0.06 (J)		0.06 (J)	
7/26/2016				0.02 (J)	0.08 (J)				0.49
8/30/2016		0.09 (J)							
8/31/2016			0.14 (J)						
9/1/2016	0.09 (J)								
9/13/2016					0.11 (J)	<0.1			
9/14/2016							0.08 (J)		
9/15/2016				<0.1					0.54
9/19/2016								<0.1	
11/1/2016					<0.1			<0.1	0.68
11/2/2016				<0.1					
11/4/2016						<0.1	<0.1		
11/14/2016		0.18 (J)							
11/15/2016	0.16 (J)								
11/28/2016			0.12 (J)						
12/15/2016							0.06 (J)		
1/10/2017				<0.1					
1/11/2017					0.05 (J)				0.49
1/16/2017						<0.1	0.1 (J)	<0.1	
2/21/2017								<0.1	
2/22/2017			0.09 (J)						
2/24/2017		0.05 (J)							
2/27/2017	0.06 (J)								
3/1/2017									
3/2/2017					<0.1	<0.1			0.48
3/3/2017							<0.1		
3/8/2017				<0.1					
4/26/2017				<0.1				<0.1	0.48
4/27/2017					0.04 (J)	0.01 (J)			
4/28/2017							0.06 (J)		
5/8/2017		0.03 (J)	0.05 (J)						
5/9/2017	0.05 (J)								
5/26/2017							0.09 (J)		
6/27/2017					<0.1	<0.1			
6/28/2017							0.11 (J)		0.47
6/30/2017				<0.1				<0.1	
7/11/2017		0.07 (J)							
7/13/2017	<0.1								
7/17/2017			0.14 (J)						
10/3/2017					<0.1	<0.1	<0.1		
10/4/2017								<0.1	<0.1
10/5/2017				<0.1					
10/10/2017		<0.1							
10/11/2017	0.14 (J)								
10/16/2017			0.12 (J)						
2/19/2018			0.17						
3/27/2018				<0.1		<0.1		<0.1	
3/28/2018							0.31		0.56
3/29/2018					<0.1				
4/2/2018		<0.1							

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
4/4/2018	<0.1								
6/5/2018					0.055 (J)				
6/6/2018						<0.1			
6/7/2018							0.11 (J)		0.48
6/8/2018				<0.1					
6/11/2018								<0.1	
8/6/2018			0.087 (J)						
9/19/2018		<0.1							
9/20/2018	<0.1								
10/1/2018				<0.1	<0.1	<0.1	<0.1		0.44
10/2/2018								<0.1	
2/25/2019			0.14 (J)						
2/26/2019				<0.1				<0.1	
2/27/2019					0.052 (J)	<0.1	0.12 (J)		0.53
3/27/2019		0.081 (J)							
3/28/2019	<0.1				0.036 (J)	<0.1			
3/29/2019				<0.1			0.13 (J)		
4/1/2019								<0.1	0.45
6/12/2019			0.12 (J)						
8/19/2019			<0.1						
8/20/2019		<0.1							
9/24/2019					0.063 (J)	<0.1	0.081 (J)		
9/25/2019				<0.1				<0.1	0.46
9/26/2019	0.09 (J)								
10/8/2019		0.034 (J)	0.052 (J)						
2/10/2020					0.061 (J)	<0.1			
2/11/2020							0.075 (J)		
2/12/2020				<0.1				<0.1	0.4
3/17/2020		<0.1	0.053 (J)						
3/18/2020				<0.1		<0.1			
3/19/2020					0.064 (J)		0.093 (J)	<0.1	0.51
3/25/2020	<0.1								
8/26/2020			0.068 (J)						
8/27/2020		<0.1							
9/22/2020		<0.1	0.058 (J)						
9/23/2020					0.058 (J)	<0.1	0.08 (J)		0.47
9/24/2020	<0.1							<0.1	
9/25/2020				<0.1					
2/9/2021	<0.1								
2/10/2021				<0.1			0.094 (J)		0.43
2/11/2021								<0.1	
2/12/2021					0.068 (J)	<0.1			
3/1/2021		<0.1						<0.1	
3/2/2021			0.073 (J)	<0.1					
3/3/2021					0.078 (J)	<0.1	0.085 (J)		0.44
3/4/2021	<0.1								
8/19/2021		<0.1		<0.1	0.074 (J)	<0.1		<0.1	0.47
8/20/2021			0.06 (J)						
8/27/2021							0.12		
9/1/2021	<0.1								
2/8/2022	<0.1	<0.1	0.064 (J)						
2/9/2022					0.057 (J)	<0.1	0.094 (J)		0.43

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/10/2022				<0.1					
2/11/2022								<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.15 (J)
6/2/2016	
7/25/2016	0.14 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.18 (J)
9/15/2016	
9/19/2016	
11/1/2016	<0.1
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.09 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.1
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.08 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.12 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	<0.1
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.1
3/29/2018	
4/2/2018	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.2 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.1
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	0.13 (J)
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	0.1 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.1 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.094 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.11 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.098 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.1
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.1
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.12
9/1/2021	
2/8/2022	
2/9/2022	0.097 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/10/2022	
2/11/2022	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.1				
8/1/2016			<0.1				
9/2/2016				0.05 (J)			
9/20/2016			<0.1				
11/8/2016			<0.1				
11/14/2016				0.18 (J)			
1/17/2017			<0.1				
2/28/2017				0.09 (J)			
3/8/2017			<0.1				
5/2/2017			<0.1				
5/9/2017				0.009 (J)			
7/7/2017			<0.1				
7/13/2017				<0.1			
9/22/2017				0.09 (J)			
9/29/2017				<0.1			
10/5/2017			<0.1				
10/6/2017				<0.1			
10/11/2017				<0.1			
10/12/2017		<0.1					
11/21/2017		0.26 (J)					
1/11/2018		<0.1					
2/20/2018		0.45					
3/30/2018			<0.1	<0.1			
4/3/2018		0.31					
6/12/2018			<0.1				
6/13/2018				<0.1			
6/29/2018		<0.1					
8/6/2018		0.23 (J)					
9/24/2018		<0.1					
9/26/2018			<0.1	<0.1			
10/16/2018	<0.1						
3/5/2019			<0.1				
3/6/2019				<0.1			
4/4/2019			0.033 (J)	0.043 (J)			
9/26/2019	<0.1		0.098 (J)	0.094 (J)			
3/25/2020	<0.1			<0.1			
3/26/2020			<0.1				
9/23/2020			<0.1				
9/24/2020	<0.1						
9/25/2020		<0.1					
10/7/2020				<0.1			
2/9/2021		<0.1	<0.1				
2/10/2021	<0.1			<0.1			
3/3/2021			<0.1				
3/4/2021	<0.1	<0.1		<0.1			
8/25/2021		<0.1					
9/1/2021	<0.1		<0.1				
9/3/2021				<0.1	0.15		
2/10/2022	<0.1	<0.1	<0.1				0.1
2/11/2022				<0.1	0.17	0.1	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									0.0013 (J)
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						8E-05 (J)			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	0.0001 (J)	
6/29/2017						8E-05 (J)			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)
3/25/2020	<0.001								
9/23/2020		<0.001		0.00028 (J)		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	
9/24/2020	<0.001				0.00011 (J)				9.2E-05 (J)
2/9/2021	0.00019 (J)	0.00011 (J)		0.00054 (J)	7.3E-05 (J)		5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)
3/3/2021	<0.001	8E-05 (J)		9.6E-05 (J)		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)
3/4/2021					4.1E-05 (J)				
8/25/2021				<0.001					
8/26/2021					<0.001			<0.001	
8/27/2021						<0.001	<0.001		<0.001
9/1/2021	<0.001	<0.001							
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.001
7/27/2016	
7/28/2016	<0.001
9/16/2016	
9/19/2016	<0.001
11/2/2016	
11/3/2016	<0.001
1/11/2017	
1/13/2017	<0.001
3/1/2017	
3/2/2017	
3/6/2017	<0.001
4/26/2017	<0.001
5/2/2017	
6/28/2017	
6/29/2017	<0.001
3/28/2018	
3/29/2018	<0.001
3/5/2019	<0.001
3/6/2019	
4/2/2019	<0.001
4/3/2019	
9/24/2019	<0.001
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.001
3/24/2020	<0.001
3/25/2020	
9/23/2020	
9/24/2020	4.6E-05 (J)
2/9/2021	<0.001
3/3/2021	
3/4/2021	<0.001
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.001
2/9/2022	<0.001
2/10/2022	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.001	<0.001	<0.001				
6/7/2016						0.00044 (J)			
7/26/2016			<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016									<0.001
8/31/2016									
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									0.0002 (J)
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/24/2017									
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				0.0001 (J)	7E-05 (J)				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									9E-05 (J)
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	0.0001 (J)								
10/12/2017		9E-05 (J)					0.0001 (J)	<0.001	<0.001
11/20/2017	<0.001	<0.001					0.0001 (J)		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	0.0002 (J)							7E-05 (J)	
1/12/2018							0.0001 (J)		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/27/2018								0.0011 (J)	
6/28/2018	<0.001	<0.001					<0.001		
8/7/2018	<0.001	<0.001					<0.001	<0.001	
9/20/2018									<0.001
9/24/2018	<0.001	<0.001					<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001				
3/6/2019						<0.001			
4/3/2019			<0.001	<0.001	<0.001				
4/4/2019						<0.001			
8/21/2019	<0.001	<0.001							
8/22/2019							<0.001	6.7E-05 (J)	<0.001
9/24/2019				<0.001	9E-05 (J)				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.001						
9/27/2019						0.00013 (J)			
10/9/2019	<0.001	<0.001					<0.001	0.00012 (J)	<0.001
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
3/24/2020		<0.001		5.4E-05 (J)	6.8E-05 (J)				
3/25/2020	5.1E-05 (J)		<0.001				<0.001	<0.001	4.7E-05 (J)
3/26/2020						<0.001			
9/22/2020			<0.001	4.5E-05 (J)	4.2E-05 (J)				
9/24/2020	<0.001	3.8E-05 (J)				4.6E-05 (J)			<0.001
9/25/2020							<0.001	<0.001	
2/8/2021				0.00013 (J)	3.7E-05 (J)				
2/9/2021			<0.001			<0.001	<0.001		
2/10/2021	<0.001	<0.001						0.0002 (J)	5.4E-05 (J)
3/2/2021				5.1E-05 (J)	9.2E-05 (J)				
3/3/2021			<0.001						
3/4/2021	<0.001	<0.001				0.00021 (J)	<0.001	<0.001	<0.001
8/25/2021						<0.001			<0.001
8/26/2021	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	
9/3/2021		<0.001							
9/27/2021									
2/8/2022	<0.001	<0.001						<0.001	
2/10/2022				<0.001	<0.001	<0.001	<0.001		<0.001
2/11/2022			<0.001						

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.001
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.001
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.001
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	8E-05 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.001
10/11/2017	
10/12/2017	<0.001
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.001
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.001
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.001
8/22/2019	
9/24/2019	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
10/9/2019	<0.001
2/12/2020	
3/24/2020	
3/25/2020	7.5E-05 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	<0.001
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.001
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.001
2/8/2022	<0.001
2/10/2022	
2/11/2022	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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	0.00056 (J)
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					0.0001 (J)	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					0.0002 (J)
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016			<0.001						
12/15/2016							<0.001		
1/10/2017				<0.001					
1/11/2017					<0.001				<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017								<0.001	
2/22/2017			<0.001						
2/24/2017		<0.001							
2/27/2017	<0.001								
3/1/2017									
3/2/2017					0.0001 (J)	<0.001			0.0002 (J)
3/3/2017							<0.001		
3/8/2017				0.0001 (J)					
4/26/2017				<0.001				<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017							<0.001		
5/8/2017		<0.001	<0.001						

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.001								
5/26/2017							<0.001		
6/27/2017					<0.001	<0.001			
6/28/2017							<0.001		<0.001
6/30/2017				<0.001				<0.001	
7/11/2017		<0.001							
7/13/2017	<0.001								
7/17/2017			<0.001						
10/10/2017		<0.001							
10/11/2017	<0.001								
10/16/2017			<0.001						
2/19/2018			<0.001						
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			<0.001						
8/20/2019		<0.001							
9/26/2019	<0.001								
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	<0.001
3/17/2020			<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					0.00012 (J)		<0.001	<0.001	0.00017 (J)
3/25/2020	5.9E-05 (J)								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020		<0.001	0.0001 (J)						
9/23/2020					<0.001	0.00021 (J)	0.0011 (J)		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				4.8E-05 (J)			0.00015 (J)		<0.001
2/11/2021								4.6E-05 (J)	
2/12/2021					4.4E-05 (J)	0.00038 (J)			
3/1/2021		<0.001						<0.001	
3/2/2021			<0.001	<0.001					
3/3/2021					5.6E-05 (J)	<0.001	<0.001		<0.001
3/4/2021	<0.001								
8/19/2021		<0.001		<0.001	<0.001	<0.001		<0.001	<0.001
8/20/2021			<0.001						
8/27/2021							<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/1/2021	<0.001								
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022					<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.001
6/2/2016	
7/25/2016	<0.001
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.001
9/15/2016	
9/19/2016	
11/1/2016	<0.001
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.001
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.001
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.001
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.001
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.001
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.001
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.00015 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.001
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/1/2021	
2/8/2022	
2/9/2022	<0.001
2/10/2022	
2/11/2022	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.001				
8/1/2016			<0.001				
9/2/2016				0.0017 (J)			
9/20/2016			<0.001				
11/8/2016			<0.001				
11/14/2016				0.0002 (J)			
1/17/2017			<0.001				
2/28/2017				0.0003 (J)			
3/8/2017			<0.001				
5/2/2017			<0.001				
5/9/2017				0.0004 (J)			
7/7/2017			<0.001				
7/13/2017				0.0004 (J)			
9/22/2017				0.0003 (J)			
9/29/2017				0.0002 (J)			
10/6/2017				0.0002 (J)			
10/12/2017		0.0002 (J)					
11/21/2017		0.0002 (J)					
1/11/2018		0.0001 (J)					
2/20/2018		<0.001					
3/30/2018			<0.001	<0.001			
4/3/2018		<0.001					
6/29/2018		<0.001					
8/6/2018		<0.001					
9/24/2018		<0.001					
3/5/2019			<0.001				
3/6/2019				<0.001			
4/4/2019			<0.001	0.00037 (J)			
9/26/2019	<0.001		<0.001	0.00023 (J)			
3/25/2020	<0.001			0.0001 (J)			
3/26/2020			5.3E-05 (J)				
9/23/2020			<0.001				
9/24/2020	<0.001						
9/25/2020		8.5E-05 (J)					
10/7/2020				0.00077 (J)			
2/9/2021		8.8E-05 (J)	0.00036 (J)				
2/10/2021	8.7E-05 (J)			0.00051 (J)			
3/3/2021			<0.001				
3/4/2021	0.00015 (J)	<0.001		0.00025 (J)			
8/25/2021		<0.001					
9/1/2021	<0.001		<0.001				
9/3/2021				<0.001	<0.001		
2/10/2022	<0.001	<0.001	<0.001				<0.001
2/11/2022				<0.001	<0.001	0.0031	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0088	0.015	
6/7/2016						<0.03			<0.03
7/27/2016						<0.03	0.0087 (J)	0.0049 (J)	<0.03
7/28/2016									
9/16/2016						<0.03		0.0031 (J)	
9/19/2016							0.0043 (J)		<0.03
11/2/2016									<0.03
11/3/2016						<0.03	<0.03	0.0021 (J)	
1/11/2017						0.0035 (J)	0.0052 (J)	0.0025 (J)	
1/13/2017									<0.03
3/1/2017							0.0053 (J)	0.0029 (J)	
3/2/2017						<0.03			
3/6/2017									<0.03
4/26/2017							0.0041 (J)	0.0019 (J)	<0.03
5/2/2017						<0.03			
6/28/2017							0.0039 (J)	0.0016 (J)	
6/29/2017						<0.03			<0.03
3/28/2018						<0.03	0.0041 (J)	0.0024 (J)	
3/29/2018									<0.03
6/5/2018									
6/6/2018									<0.03
6/7/2018							0.0032 (J)		
6/11/2018						<0.03		0.0014 (J)	
9/25/2018						<0.03	0.0036 (J)	0.0016 (J)	<0.03
10/16/2018	0.0052 (J)								
3/5/2019						<0.03		0.0031 (J)	<0.03
3/6/2019							0.0033 (J)		
4/2/2019						<0.03			
4/3/2019							0.0035 (J)	0.0028 (J)	<0.03
9/24/2019									
9/25/2019						<0.03			<0.03
9/26/2019	<0.03						0.0032 (J)	0.0029 (J)	
2/11/2020						<0.03	0.0033 (J)	0.005 (J)	
2/12/2020									<0.03
3/24/2020						0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03
3/25/2020	0.0011 (J)								
9/23/2020		<0.03		0.03 (J)		<0.03	0.003 (J)	0.0022 (J)	
9/24/2020	0.011 (J)				0.013 (J)				<0.03
2/9/2021	0.021 (J)	<0.03		0.018 (J)	0.016 (J)		0.0031 (J)	0.0019 (J)	<0.03
3/3/2021	0.022 (J)	<0.03		0.02 (J)		<0.03	0.0034 (J)	0.0021 (J)	<0.03
3/4/2021					0.016 (J)				
8/25/2021				0.033					
8/26/2021					0.015 (J)			0.0019 (J)	
8/27/2021						<0.03	0.0032 (J)		<0.03
9/1/2021	0.013 (J)	<0.03							
12/9/2021			0.042						
2/9/2022						<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)
2/10/2022	0.014 (J)	<0.03	0.054	0.036	0.015 (J)				

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0055
7/27/2016	
7/28/2016	0.0045 (J)
9/16/2016	
9/19/2016	0.0054 (J)
11/2/2016	
11/3/2016	<0.03
1/11/2017	
1/13/2017	0.0062 (J)
3/1/2017	
3/2/2017	
3/6/2017	0.0059 (J)
4/26/2017	0.0054 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0047 (J)
3/28/2018	
3/29/2018	0.0062 (J)
6/5/2018	0.0061 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0062 (J)
10/16/2018	
3/5/2019	0.0053 (J)
3/6/2019	
4/2/2019	0.0051 (J)
4/3/2019	
9/24/2019	0.0068 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0065 (J)
3/24/2020	0.0064 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0069 (J)
2/9/2021	0.006 (J)
3/3/2021	
3/4/2021	0.0062 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0057 (J)
12/9/2021	
2/9/2022	0.0061 (J)
2/10/2022	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0049 (J)	<0.03				
6/7/2016						<0.03			
7/26/2016			0.0123 (J)	0.0063 (J)	0.0027 (J)				
7/28/2016						0.0019 (J)			
8/30/2016									0.0257 (J)
8/31/2016									
9/14/2016			0.0137 (J)	0.0058 (J)	0.0029 (J)				
9/20/2016						0.0021 (J)			
11/2/2016			0.0136 (J)	0.0053 (J)					
11/4/2016					<0.03				
11/8/2016						0.0024 (J)			
11/16/2016									0.0221 (J)
1/12/2017				0.0054 (J)	0.0032 (J)				
1/13/2017			0.0121 (J)						
1/16/2017						0.0022 (J)			
2/24/2017									
2/27/2017									0.0208 (J)
3/6/2017			0.0143 (J)						
3/7/2017				0.0056 (J)	0.0035 (J)				
3/9/2017						0.0025 (J)			
5/1/2017			0.0132 (J)	0.0031 (J)					
5/2/2017					0.0031 (J)	0.0019 (J)			
5/10/2017									0.0316 (J)
6/27/2017				0.0018 (J)	0.0029 (J)				
6/29/2017			0.0145 (J)						
7/10/2017						0.0018 (J)			
7/11/2017									0.0281 (J)
10/11/2017	0.0018 (J)								
10/12/2017		<0.03					0.0095 (J)	0.004 (J)	0.0331 (J)
11/20/2017	0.0018 (J)	<0.03					0.0083 (J)		
11/21/2017								0.0043 (J)	
1/10/2018		<0.03							
1/11/2018	0.0019 (J)							0.0044 (J)	
1/12/2018							0.0089 (J)		
2/19/2018		<0.03						<0.03	
2/20/2018	<0.03						0.0082 (J)		
3/29/2018			0.014 (J)	0.0058 (J)	0.0034 (J)				
3/30/2018						0.0039 (J)			
4/3/2018	0.0022 (J)	<0.03					0.0097 (J)	0.0047 (J)	
4/4/2018									0.037 (J)
6/6/2018				0.0068 (J)					
6/7/2018			0.013 (J)		0.0032 (J)				
6/12/2018						0.0017 (J)			
6/27/2018								0.0042 (J)	
6/28/2018	0.0026 (J)	<0.03					0.0093 (J)		
8/7/2018	0.0024 (J)	<0.03					0.0092 (J)	0.0038 (J)	
9/20/2018									0.049 (J)
9/24/2018	0.0022 (J)	<0.03					0.0083 (J)	0.0037 (J)	
9/26/2018			0.014 (J)	0.0065 (J)	0.0032 (J)				
9/27/2018						0.0017 (J)			
3/4/2019			0.015 (J)	0.0065 (J)	0.0032 (J)				
3/6/2019						0.0025 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.014 (J)	0.007 (J)	0.0035 (J)				
4/4/2019						0.0018 (J)			
8/21/2019	0.0035 (J)	<0.03							
8/22/2019							0.0082 (J)	0.0035 (J)	0.047
9/24/2019				0.0065 (J)	0.0031 (J)				
9/25/2019			0.014 (J)						
9/27/2019						0.0017 (J)			
10/9/2019	0.0036 (J)	<0.03					0.0081 (J)	0.0032 (J)	0.037
2/12/2020	0.0041 (J)	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)				
3/24/2020		<0.03		0.0064 (J)	0.0033 (J)				
3/25/2020	0.0049 (J)		0.014 (J)				0.0081 (J)	0.0029 (J)	0.045
3/26/2020						0.0021 (J)			
9/22/2020			0.013 (J)	0.0066 (J)	0.0034 (J)				
9/24/2020	0.0054 (J)	<0.03				0.0035 (J)			0.05
9/25/2020							0.0069 (J)	0.0025 (J)	
2/8/2021				0.0063 (J)	0.0032 (J)				
2/9/2021			0.011 (J)			0.0026 (J)	0.0067 (J)		
2/10/2021	0.0071 (J)	<0.03						0.0021 (J)	0.058
3/2/2021				0.0018 (J)	0.0031 (J)				
3/3/2021			0.012 (J)						
3/4/2021	0.0084 (J)	<0.03				0.0026 (J)	0.0067 (J)	0.0021 (J)	0.059
8/25/2021						0.0026 (J)			0.053
8/26/2021	0.0082 (J)		0.0094 (J)	0.0075 (J)	0.0032 (J)		0.007 (J)	0.0021 (J)	
9/3/2021		<0.03							
9/27/2021									
2/8/2022	0.008 (J)	0.00076 (J)						0.0023 (J)	
2/10/2022				0.0076 (J)	0.0036 (J)	0.0029 (J)	0.0068 (J)		0.052
2/11/2022			0.012 (J)						

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.006 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.0095 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.0104 (J)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0123 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.0131 (J)
10/11/2017	
10/12/2017	0.013 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	0.016 (J)
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.019 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.015 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.018 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.016 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.018 (J)
2/8/2021	
2/9/2021	0.024 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.025 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0092 (J)
2/8/2022	0.016 (J)
2/10/2022	
2/11/2022	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.015	<0.03			
6/2/2016				<0.03				<0.03	0.018
7/25/2016						0.002 (J)		<0.03	
7/26/2016				<0.03	0.0135 (J)				0.0221 (J)
8/30/2016		0.0061 (J)							
8/31/2016			<0.03						
9/1/2016	0.0034 (J)								
9/13/2016					0.0112 (J)	<0.03			
9/14/2016							0.004 (J)		
9/15/2016				<0.03					0.0197 (J)
9/19/2016								<0.03	
11/1/2016					0.0163 (J)			<0.03	0.0194 (J)
11/2/2016				<0.03					
11/4/2016						<0.03	<0.03		
11/14/2016		0.0064 (J)							
11/15/2016	0.0044 (J)								
11/28/2016			<0.03						
12/15/2016							0.0026 (J)		
1/10/2017				<0.03					
1/11/2017					0.0166 (J)				0.0177 (J)
1/16/2017						0.0023 (J)	0.0023 (J)	<0.03	
2/21/2017								<0.03	
2/22/2017			<0.03						
2/24/2017		0.0049 (J)							
2/27/2017	0.0036 (J)								
3/1/2017									
3/2/2017					0.0159 (J)	0.0025 (J)			0.0185 (J)
3/3/2017							0.0013 (J)		
3/8/2017				<0.03					
4/26/2017				<0.03				<0.03	0.0183 (J)
4/27/2017					0.0137 (J)	0.0027 (J)			
4/28/2017							0.0031 (J)		
5/8/2017		0.0053 (J)	0.0014 (J)						
5/9/2017	0.0038 (J)								
5/26/2017							0.0038 (J)		
6/27/2017					0.0094 (J)	0.0024 (J)			
6/28/2017							0.0026 (J)		0.0173 (J)
6/30/2017				<0.03				<0.03	
7/11/2017		0.0051 (J)							
7/13/2017	0.0036 (J)								
7/17/2017			<0.03						
10/10/2017		0.0043 (J)							
10/11/2017	0.0036 (J)								
10/16/2017			0.0016 (J)						
2/19/2018			<0.03						
3/27/2018				<0.03		0.0023 (J)		0.0011 (J)	
3/28/2018							0.0025 (J)		0.02 (J)
3/29/2018					0.0078 (J)				
4/2/2018		0.0045 (J)							
4/4/2018	0.0039 (J)								
6/5/2018					0.0079 (J)				
6/6/2018						0.0024 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							0.0017 (J)		0.02 (J)
6/8/2018				<0.03					
6/11/2018								0.0012 (J)	
8/6/2018			<0.03						
9/19/2018		0.0043 (J)							
9/20/2018	0.0036 (J)								
10/1/2018				<0.03	0.0053 (J)	0.0023 (J)	<0.03		0.02 (J)
10/2/2018								<0.03	
2/26/2019				<0.03				0.0011 (J)	
2/27/2019					0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)
3/28/2019					0.013 (J)	0.0022 (J)			
3/29/2019				<0.03			0.0016 (J)		
4/1/2019								0.001 (J)	0.021 (J)
8/19/2019			0.0019 (J)						
8/20/2019		0.0036 (J)							
9/24/2019					0.0046 (J)	0.0023 (J)	0.0011 (J)		
9/25/2019				<0.03				0.0011 (J)	0.02 (J)
9/26/2019	0.0036 (J)								
10/8/2019		0.0036 (J)	0.0015 (J)						
2/10/2020					0.011 (J)	0.0023 (J)			
2/11/2020							0.0012 (J)		
2/12/2020				<0.03				0.0013 (J)	0.019 (J)
3/17/2020		0.0046 (J)	0.0017 (J)						
3/18/2020				<0.03		0.0024 (J)			
3/19/2020					0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)
3/25/2020	0.0037 (J)								
8/26/2020			0.0032 (J)						
8/27/2020		0.0039 (J)							
9/22/2020		0.0036 (J)	0.0029 (J)						
9/23/2020					0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)
9/24/2020	0.0037 (J)							0.0011 (J)	
9/25/2020				<0.03					
2/9/2021	0.0038 (J)								
2/10/2021				<0.03			0.0039 (J)		0.023 (J)
2/11/2021								0.0012 (J)	
2/12/2021					0.01 (J)	0.0025 (J)			
3/1/2021		0.0037 (J)						0.0011 (J)	
3/2/2021			0.0033 (J)	<0.03					
3/3/2021					0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)
3/4/2021	0.0035 (J)								
8/19/2021		0.0038 (J)		<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)
8/20/2021			0.0028 (J)						
8/27/2021							0.0058 (J)		
9/1/2021	0.0036 (J)								
2/8/2022	0.0036 (J)	0.0039 (J)	0.0031 (J)						
2/9/2022					0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)
2/10/2022				<0.03					
2/11/2022								0.0014 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.01
6/2/2016	
7/25/2016	0.0132 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.012 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0115 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0085 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0114 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0092 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.0085 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.013 (J)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.012 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.011 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.014 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.013 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.01 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.013 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.014 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.013 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.015 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.017 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.026 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.021 (J)
2/10/2022	
2/11/2022	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.03				
8/1/2016			<0.03				
9/2/2016				0.0029 (J)			
9/20/2016			<0.03				
11/8/2016			<0.03				
11/14/2016				0.0044 (J)			
1/17/2017			<0.03				
2/28/2017				0.0038 (J)			
3/8/2017			<0.03				
5/2/2017			<0.03				
5/9/2017				0.0057 (J)			
7/7/2017			<0.03				
7/13/2017				0.007 (J)			
9/22/2017				0.0067 (J)			
9/29/2017				0.0064 (J)			
10/6/2017				0.0065 (J)			
10/12/2017		0.0271 (J)					
11/21/2017		0.0255 (J)					
1/11/2018		0.0271 (J)					
2/20/2018		<0.03					
3/30/2018			<0.03	0.0061 (J)			
4/3/2018		0.027 (J)					
6/12/2018			<0.03				
6/13/2018				0.0065 (J)			
6/29/2018		0.032 (J)					
8/6/2018		0.033 (J)					
9/24/2018		0.028 (J)					
9/26/2018			<0.03	0.0063 (J)			
10/16/2018	0.0011 (J)						
3/5/2019			<0.03				
3/6/2019				0.0057 (J)			
4/4/2019			<0.03	0.0058 (J)			
9/26/2019	<0.03		<0.03	0.0041 (J)			
3/25/2020	0.011 (J)			0.0032 (J)			
3/26/2020			<0.03				
9/23/2020			<0.03				
9/24/2020	0.001 (J)						
9/25/2020		0.028 (J)					
10/7/2020				0.0014 (J)			
2/9/2021		0.024 (J)	<0.03				
2/10/2021	0.0012 (J)			0.0011 (J)			
3/3/2021			<0.03				
3/4/2021	0.0015 (J)	0.028 (J)		<0.03			
8/25/2021		0.023 (J)					
9/1/2021	0.0019 (J)		<0.03				
9/3/2021				0.00086 (J)	0.013 (J)		
2/10/2022	0.0021 (J)	0.017 (J)	<0.03				0.006 (J)
2/11/2022				0.00093 (J)	0.0087 (J)	0.015 (J)	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0002	<0.0002	
6/7/2016						9.5E-05 (J)			9.6E-05 (J)
7/27/2016						<0.0002	<0.0002	<0.0002	<0.0002
7/28/2016									
9/16/2016						<0.0002		<0.0002	
9/19/2016							<0.0002		<0.0002
11/2/2016									<0.0002
11/3/2016						<0.0002	<0.0002	<0.0002	
1/11/2017						<0.0002	<0.0002	<0.0002	
1/13/2017									<0.0002
3/1/2017							<0.0002	<0.0002	
3/2/2017						<0.0002			
3/6/2017									<0.0002
4/26/2017							<0.0002	<0.0002	<0.0002
5/2/2017						<0.0002			
6/28/2017							<0.0002	<0.0002	
6/29/2017						<0.0002			<0.0002
3/28/2018						<0.0002	<0.0002	<0.0002	
3/29/2018									<0.0002
9/25/2018						<0.0002	<0.0002	<0.0002	<0.0002
3/5/2019						<0.0002		<0.0002	<0.0002
3/6/2019							<0.0002		
2/11/2020						<0.0002	<0.0002	<0.0002	
2/12/2020									<0.0002
9/23/2020		<0.0002		<0.0002					
9/24/2020	<0.0002				<0.0002				
2/9/2021	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
3/4/2021					<0.0002				
8/25/2021				<0.0002					
8/26/2021					<0.0002			<0.0002	
8/27/2021						<0.0002	<0.0002		<0.0002
9/1/2021	<0.0002	<0.0002							
2/9/2022						<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	9.6E-05 (J)
7/27/2016	
7/28/2016	<0.0002
9/16/2016	
9/19/2016	<0.0002
11/2/2016	
11/3/2016	<0.0002
1/11/2017	
1/13/2017	<0.0002
3/1/2017	
3/2/2017	
3/6/2017	<0.0002
4/26/2017	<0.0002
5/2/2017	
6/28/2017	
6/29/2017	<0.0002
3/28/2018	
3/29/2018	<0.0002
9/25/2018	<0.0002
3/5/2019	<0.0002
3/6/2019	
2/11/2020	
2/12/2020	<0.0002
9/23/2020	
9/24/2020	
2/9/2021	<0.0002
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0002
2/9/2022	<0.0002
2/10/2022	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0002	<0.0002	<0.0002				
6/7/2016						9.8E-05 (J)			
7/26/2016			<0.0002	<0.0002	<0.0002				
7/28/2016						<0.0002			
8/30/2016									<0.0002
8/31/2016									
9/14/2016			<0.0002	<0.0002	<0.0002				
9/20/2016						<0.0002			
11/2/2016			<0.0002	<0.0002					
11/4/2016					<0.0002				
11/8/2016						<0.0002			
11/16/2016									<0.0002
1/12/2017				<0.0002	<0.0002				
1/13/2017			<0.0002						
1/16/2017						<0.0002			
2/24/2017									
2/27/2017									<0.0002
3/6/2017			<0.0002						
3/7/2017				<0.0002	<0.0002				
3/9/2017						<0.0002			
5/1/2017			<0.0002	<0.0002					
5/2/2017					<0.0002	<0.0002			
5/10/2017									<0.0002
6/27/2017				<0.0002	<0.0002				
6/29/2017			<0.0002						
7/10/2017						<0.0002			
7/11/2017									<0.0002
10/11/2017	<0.0002								
10/12/2017		<0.0002					<0.0002	<0.0002	<0.0002
11/20/2017	7E-05 (J)	8E-05 (J)					8E-05 (J)		
11/21/2017								6E-05 (J)	
1/10/2018		<0.0002							
1/11/2018	<0.0002							<0.0002	
1/12/2018							<0.0002		
2/19/2018		<0.0002						<0.0002	
2/20/2018	<0.0002						<0.0002		
3/29/2018			<0.0002	<0.0002	<0.0002				
3/30/2018						<0.0002			
4/3/2018	<0.0002	<0.0002					<0.0002	<0.0002	
4/4/2018									<0.0002
6/27/2018								<0.0002	
6/28/2018	<0.0002	3.6E-05 (J)					3.7E-05 (J)		
8/7/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/20/2018									4.8E-05 (J)
9/24/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/26/2018			<0.0002	<0.0002	<0.0002				
9/27/2018						<0.0002			
3/4/2019			<0.0002	<0.0002	<0.0002				
3/6/2019						<0.0002			
8/21/2019	<0.0002	<0.0002							
8/22/2019							<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
2/8/2021				<0.0002	<0.0002				
2/9/2021			<0.0002			0.00015 (J)	<0.0002		
2/10/2021	<0.0002	<0.0002						<0.0002	<0.0002
3/2/2021				<0.0002	<0.0002				
3/3/2021			<0.0002						
3/4/2021	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
8/25/2021						<0.0002			<0.0002
8/26/2021	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
9/3/2021		0.00012 (J)							
9/27/2021									
2/8/2022	<0.0002	0.00013 (J)						<0.0002	
2/10/2022				<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/11/2022			<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0002
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0002
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0002
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0002
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0002
10/11/2017	
10/12/2017	<0.0002
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0002
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	5.2E-05 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	
8/21/2019	<0.0002
8/22/2019	
2/12/2020	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
2/8/2021	
2/9/2021	<0.0002
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	9E-05 (JB)
2/8/2022	<0.0002
2/10/2022	
2/11/2022	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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	<0.0002
7/25/2016						<0.0002		<0.0002	
7/26/2016				<0.0002	<0.0002				<0.0002
8/30/2016		<0.0002							
8/31/2016			<0.0002						
9/1/2016	<0.0002								
9/13/2016					<0.0002	<0.0002			
9/14/2016							<0.0002		
9/15/2016				<0.0002					<0.0002
9/19/2016								<0.0002	
11/1/2016					<0.0002			<0.0002	<0.0002
11/2/2016				<0.0002					
11/4/2016						<0.0002	<0.0002		
11/14/2016		<0.0002							
11/15/2016	<0.0002								
11/28/2016			<0.0002						
12/15/2016							<0.0002		
1/10/2017				<0.0002					
1/11/2017					<0.0002				<0.0002
1/16/2017						<0.0002	<0.0002	<0.0002	
2/21/2017								<0.0002	
2/22/2017			<0.0002						
2/24/2017		<0.0002							
2/27/2017	<0.0002								
3/1/2017									
3/2/2017					<0.0002	<0.0002			<0.0002
3/3/2017							<0.0002		
3/8/2017				<0.0002					
4/26/2017				<0.0002				<0.0002	<0.0002
4/27/2017					<0.0002	<0.0002			
4/28/2017							<0.0002		
5/8/2017		<0.0002	<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.0002								
5/26/2017							<0.0002		
6/27/2017					<0.0002	<0.0002			
6/28/2017							<0.0002		<0.0002
6/30/2017				<0.0002				<0.0002	
7/11/2017		<0.0002							
7/13/2017	<0.0002								
7/17/2017			<0.0002						
10/10/2017		<0.0002							
10/11/2017	<0.0002								
10/16/2017			<0.0002						
2/19/2018			<0.0002						
3/27/2018				<0.0002		<0.0002		<0.0002	
3/28/2018							<0.0002		<0.0002
3/29/2018					<0.0002				
4/2/2018		<0.0002							
4/4/2018	<0.0002								
8/6/2018			<0.0002						
9/19/2018		5.3E-05 (J)							
9/20/2018	6.1E-05 (J)								
2/25/2019			7.4E-05 (J)						
2/26/2019				6.1E-05 (J)				6.8E-05 (J)	
2/27/2019					5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)
3/28/2019					4E-05 (J)	<0.0002			
3/29/2019				<0.0002			<0.0002		
4/1/2019								8.2E-05 (J)	9.6E-05 (J)
6/12/2019			<0.0002						
8/19/2019			<0.0002						
8/20/2019		<0.0002							
9/24/2019					<0.0002	<0.0002	<0.0002		
9/25/2019				<0.0002				<0.0002	<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	<0.0002
5/6/2020			<0.0002						
8/26/2020			<0.0002						
8/27/2020		<0.0002							
9/22/2020			<0.0002						
2/9/2021	0.00014 (J)								
2/10/2021				<0.0002			<0.0002		<0.0002
2/11/2021								<0.0002	
2/12/2021					<0.0002	<0.0002			
3/2/2021			<0.0002						
3/4/2021	<0.0002								
8/19/2021		<0.0002							
8/20/2021			<0.0002						
9/1/2021	<0.0002								
2/8/2022	<0.0002	<0.0002	<0.0002						
2/9/2022					<0.0002	<0.0002	<0.0002		<0.0002
2/10/2022				<0.0002					
2/11/2022								<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0002
6/2/2016	
7/25/2016	<0.0002
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0002
9/15/2016	
9/19/2016	
11/1/2016	<0.0002
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.0002
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0002
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0002
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0002
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0002
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	6.1E-05 (J)
3/28/2019	
3/29/2019	
4/1/2019	8.4E-05 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0002
10/8/2019	
2/10/2020	
2/11/2020	<0.0002
2/12/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
2/9/2021	
2/10/2021	<0.0002
2/11/2021	
2/12/2021	
3/2/2021	
3/4/2021	
8/19/2021	
8/20/2021	
9/1/2021	
2/8/2022	
2/9/2022	<0.0002
2/10/2022	
2/11/2022	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.0002				
8/1/2016			<0.0002				
9/2/2016				<0.0002			
9/20/2016			<0.0002				
11/8/2016			<0.0002				
11/14/2016				<0.0002			
1/17/2017			<0.0002				
2/28/2017				<0.0002			
3/8/2017			<0.0002				
5/2/2017			<0.0002				
5/9/2017				<0.0002			
7/7/2017			<0.0002				
7/13/2017				<0.0002			
9/22/2017				<0.0002			
9/29/2017				<0.0002			
10/6/2017				<0.0002			
10/12/2017		<0.0002					
11/21/2017		6E-05 (J)					
1/11/2018		<0.0002					
2/20/2018		<0.0002					
3/30/2018			<0.0002	<0.0002			
4/3/2018		<0.0002					
6/29/2018		<0.0002					
8/6/2018		<0.0002					
9/24/2018		<0.0002					
9/26/2018			<0.0002	<0.0002			
3/5/2019			<0.0002				
3/6/2019				<0.0002			
9/24/2020	<0.0002						
9/25/2020		<0.0002					
2/9/2021		<0.0002	<0.0002				
2/10/2021	<0.0002			<0.0002			
3/3/2021			<0.0002				
3/4/2021	<0.0002	<0.0002		<0.0002			
8/25/2021		<0.0002					
9/1/2021	<0.0002		<0.0002				
9/3/2021				<0.0002	<0.0002		
2/10/2022	<0.0002	<0.0002	<0.0002				<0.0002
2/11/2022				<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.01	<0.01	
6/7/2016						<0.01			<0.01
7/27/2016						<0.01	<0.01	<0.01	<0.01
7/28/2016									
9/16/2016						<0.01		<0.01	
9/19/2016							<0.01		<0.01
11/2/2016									<0.01
11/3/2016						<0.01	<0.01	<0.01	
1/11/2017						<0.01	<0.01	<0.01	
1/13/2017									<0.01
3/1/2017							<0.01	<0.01	
3/2/2017						<0.01			
3/6/2017									<0.01
4/26/2017							<0.01	<0.01	<0.01
5/2/2017						<0.01			
6/28/2017							<0.01	<0.01	
6/29/2017						<0.01			<0.01
3/28/2018						<0.01	<0.01	<0.01	
3/29/2018									<0.01
3/5/2019						<0.01		<0.01	<0.01
3/6/2019							<0.01		
2/11/2020						<0.01	<0.01	<0.01	
2/12/2020									<0.01
3/24/2020						<0.01	<0.01	<0.01	<0.01
3/25/2020	<0.01								
9/23/2020		<0.01		0.0068 (J)		<0.01	<0.01	<0.01	
9/24/2020	0.0022 (J)				<0.01				<0.01
2/9/2021	0.0038 (J)	<0.01		0.0068 (J)	<0.01		<0.01	<0.01	<0.01
3/3/2021	0.0037 (J)	<0.01		0.0049 (J)		<0.01	<0.01	<0.01	<0.01
3/4/2021					<0.01				
8/25/2021				0.0081 (J)					
8/26/2021					<0.01			<0.01	
8/27/2021						<0.01	<0.01		<0.01
9/1/2021	0.0014 (J)	<0.01							
2/9/2022						<0.01	<0.01	<0.01	<0.01
2/10/2022	0.00089 (J)	<0.01	0.0036 (J)	0.0076 (J)	<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.01
7/27/2016	
7/28/2016	<0.01
9/16/2016	
9/19/2016	<0.01
11/2/2016	
11/3/2016	<0.01
1/11/2017	
1/13/2017	<0.01
3/1/2017	
3/2/2017	
3/6/2017	0.0007 (J)
4/26/2017	0.0008 (J)
5/2/2017	
6/28/2017	
6/29/2017	<0.01
3/28/2018	
3/29/2018	<0.01
3/5/2019	<0.01
3/6/2019	
2/11/2020	
2/12/2020	<0.01
3/24/2020	<0.01
3/25/2020	
9/23/2020	
9/24/2020	<0.01
2/9/2021	<0.01
3/3/2021	
3/4/2021	<0.01
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.01
2/9/2022	<0.01
2/10/2022	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.01	0.0035 (J)	<0.01				
6/7/2016						<0.01			
7/26/2016			<0.01	0.0042 (J)	<0.01				
7/28/2016						<0.01			
8/30/2016									0.0019 (J)
8/31/2016									
9/14/2016			<0.01	0.0041 (J)	<0.01				
9/20/2016						<0.01			
11/2/2016			<0.01	0.0039 (J)					
11/4/2016					<0.01				
11/8/2016						<0.01			
11/16/2016									0.0027 (J)
1/12/2017				0.0041 (J)	<0.01				
1/13/2017			<0.01						
1/16/2017						<0.01			
2/24/2017									
2/27/2017									0.0031 (J)
3/6/2017			<0.01						
3/7/2017				0.0047 (J)	<0.01				
3/9/2017						<0.01			
5/1/2017			<0.01	0.0045 (J)					
5/2/2017					<0.01	<0.01			
5/10/2017									0.0017 (J)
6/27/2017				0.004 (J)	<0.01				
6/29/2017			<0.01						
7/10/2017						<0.01			
7/11/2017									0.0014 (J)
10/11/2017	0.0094 (J)								
10/12/2017		<0.01					<0.01	<0.01	<0.01
11/20/2017	0.0081 (J)	<0.01					<0.01		
11/21/2017								<0.01	
1/10/2018		<0.01							
1/11/2018	0.0074 (J)							<0.01	
1/12/2018							<0.01		
2/19/2018		<0.01						<0.01	
2/20/2018	<0.01						<0.01		
3/29/2018			<0.01	<0.01	<0.01				
3/30/2018						<0.01			
4/3/2018	0.006 (J)	<0.01					<0.01	<0.01	
4/4/2018									<0.01
6/27/2018								<0.01	
6/28/2018	0.005 (J)	<0.01					<0.01		
8/7/2018	0.0045 (J)	<0.01					<0.01	<0.01	
9/20/2018									<0.01
9/24/2018	0.0035 (J)	<0.01					<0.01	<0.01	
3/4/2019			<0.01	<0.01	<0.01				
3/6/2019						<0.01			
8/21/2019	0.0021 (J)	<0.01							
8/22/2019							<0.01	<0.01	<0.01
10/9/2019	0.0018 (J)	<0.01					<0.01	<0.01	<0.01
2/12/2020	0.0025 (J)	<0.01	<0.01	0.0011 (J)	<0.01				
3/24/2020		<0.01		0.0011 (J)	<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/25/2020	0.002 (J)		<0.01				<0.01	<0.01	<0.01
3/26/2020						<0.01			
9/22/2020			<0.01	0.00099 (J)	<0.01				
9/24/2020	0.0016 (J)	<0.01				<0.01			0.00091 (J)
9/25/2020							<0.01	<0.01	
2/8/2021				0.0011 (J)	<0.01				
2/9/2021			<0.01			<0.01	<0.01		
2/10/2021	0.0013 (J)	<0.01						<0.01	0.00094 (J)
3/2/2021				<0.01	<0.01				
3/3/2021			<0.01						
3/4/2021	0.0014 (J)	<0.01				<0.01	<0.01	<0.01	0.00085 (J)
8/25/2021						<0.01			0.00078 (J)
8/26/2021	0.0027 (J)		<0.01	0.001 (J)	<0.01		<0.01	<0.01	
9/3/2021		<0.01							
9/27/2021									
2/8/2022	0.0035 (J)	<0.01						<0.01	
2/10/2022				0.00096 (J)	<0.01	<0.01	<0.01		0.0008 (J)
2/11/2022			<0.01						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.0022 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.01
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.01
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.01
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.01
10/11/2017	
10/12/2017	<0.01
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.01
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.01
9/24/2018	
3/4/2019	
3/6/2019	
8/21/2019	0.0012 (J)
8/22/2019	
10/9/2019	0.0012 (J)
2/12/2020	
3/24/2020	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/25/2020	0.0015 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.0011 (J)
2/8/2021	
2/9/2021	0.0012 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.0011 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0062 (J)
2/8/2022	0.002 (J)
2/10/2022	
2/11/2022	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.014 (J)	0.012 (J)			
6/2/2016				<0.01				<0.01	0.0093 (J)
7/25/2016						0.0098 (J)		<0.01	
7/26/2016				<0.01	0.0132				0.0113
8/30/2016		<0.01							
8/31/2016			<0.01						
9/1/2016	<0.01								
9/13/2016					0.0127	0.01 (J)			
9/14/2016							0.0039 (J)		
9/15/2016				<0.01					0.0112
9/19/2016								<0.01	
11/1/2016					0.0092 (J)			<0.01	0.0099 (J)
11/2/2016				<0.01					
11/4/2016						0.01	0.0077 (J)		
11/14/2016		<0.01							
11/15/2016	<0.01								
11/28/2016			<0.01						
12/15/2016							0.0066 (J)		
1/10/2017				<0.01					
1/11/2017					0.0093 (J)				0.0093 (J)
1/16/2017						0.0086 (J)	0.0056 (J)	<0.01	
2/21/2017								<0.01	
2/22/2017			<0.01						
2/24/2017		<0.01							
2/27/2017	0.0007 (J)								
3/1/2017									
3/2/2017					0.0099 (J)	0.01			0.0103
3/3/2017							0.0049 (J)		
3/8/2017				<0.01					
4/26/2017				<0.01				<0.01	0.01
4/27/2017					0.0103	0.0101			
4/28/2017							0.004 (J)		
5/8/2017		<0.01	<0.01						
5/9/2017	<0.01								
5/26/2017							0.0029 (J)		
6/27/2017					0.0097 (J)	0.0093 (J)			
6/28/2017							0.0036 (J)		0.0102
6/30/2017				<0.01				<0.01	
7/11/2017		<0.01							
7/13/2017	<0.01								
7/17/2017			<0.01						
10/10/2017		<0.01							
10/11/2017	<0.01								
10/16/2017			<0.01						
2/19/2018			<0.01						
3/27/2018				<0.01		0.0074 (J)		<0.01	
3/28/2018							0.0038 (J)		0.011
3/29/2018					0.0076 (J)				
4/2/2018		<0.01							
4/4/2018	<0.01								
6/5/2018					0.0092 (J)				
6/6/2018						0.0073 (J)			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							0.004 (J)		0.011
6/8/2018				<0.01					
6/11/2018								<0.01	
8/6/2018			<0.01						
9/19/2018		<0.01							
9/20/2018	<0.01								
10/1/2018				<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012
10/2/2018								<0.01	
2/26/2019				<0.01				<0.01	
2/27/2019					0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011
3/28/2019					0.0092 (J)	0.0082 (J)			
3/29/2019				<0.01			0.0041 (J)		
4/1/2019								<0.01	0.012
8/19/2019			<0.01						
8/20/2019		<0.01							
9/24/2019					0.0072 (J)	0.0074 (J)	0.0054 (J)		
9/25/2019				<0.01				<0.01	0.012
10/8/2019		<0.01							
2/10/2020					0.0087 (J)	0.0062 (J)			
2/11/2020							0.0057 (J)		
2/12/2020				<0.01				<0.01	0.013
3/17/2020		<0.01							
3/18/2020				<0.01		0.0056 (J)			
3/19/2020					0.0088 (J)		0.0046 (J)	<0.01	0.013
3/25/2020	<0.01								
8/26/2020			<0.01						
8/27/2020		<0.01							
9/22/2020		<0.01							
9/23/2020					0.008 (J)	0.0059 (J)	0.0071 (J)		0.012
9/24/2020	<0.01							<0.01	
9/25/2020				<0.01					
2/9/2021	<0.01								
2/10/2021				<0.01			0.0041 (J)		0.014
2/11/2021								<0.01	
2/12/2021					0.008 (J)	0.0056 (J)			
3/1/2021		<0.01						<0.01	
3/2/2021				<0.01					
3/3/2021					0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013
3/4/2021	<0.01								
8/19/2021		<0.01		<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013
8/20/2021			<0.01						
8/27/2021							0.0048 (J)		
9/1/2021	<0.01								
2/8/2022	<0.01	<0.01	<0.01						
2/9/2022					0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013
2/10/2022				<0.01					
2/11/2022								<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.0055 (J)
6/2/2016	
7/25/2016	0.0037 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.0034 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0025 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0033 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0044 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0075 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.008 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.0025 (J)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.0041 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0037 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.0027 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.0021 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0087 (J)
10/8/2019	
2/10/2020	
2/11/2020	0.003 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0043 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.01
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.0038 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0036 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0099 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0087 (J)
2/10/2022	
2/11/2022	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.01				
8/1/2016			<0.01				
9/2/2016				0.0027 (J)			
9/20/2016			<0.01				
11/8/2016			<0.01				
11/14/2016				0.0071 (J)			
1/17/2017			<0.01				
2/28/2017				0.0038 (J)			
3/8/2017			<0.01				
5/2/2017			<0.01				
5/9/2017				0.0025 (J)			
7/7/2017			<0.01				
7/13/2017				0.0014 (J)			
9/22/2017				<0.01			
9/29/2017				<0.01			
10/6/2017				<0.01			
10/12/2017		0.0022 (J)					
11/21/2017		0.0016 (J)					
1/11/2018		0.0015 (J)					
2/20/2018		<0.01					
3/30/2018			<0.01	<0.01			
4/3/2018		<0.01					
6/29/2018		0.0021 (J)					
8/6/2018		<0.01					
9/24/2018		<0.01					
3/5/2019			<0.01				
3/6/2019				<0.01			
3/25/2020	0.0019 (J)			<0.01			
3/26/2020			<0.01				
9/23/2020			<0.01				
9/24/2020	<0.01						
9/25/2020		0.0016 (J)					
10/7/2020				0.0015 (J)			
2/9/2021		0.0016 (J)	<0.01				
2/10/2021	<0.01			<0.01			
3/3/2021			<0.01				
3/4/2021	<0.01	0.0024 (J)		<0.01			
8/25/2021		0.0011 (J)					
9/1/2021	<0.01		<0.01				
9/3/2021				<0.01	0.0018 (J)		
2/10/2022	<0.01	<0.01	<0.01				<0.01
2/11/2022				<0.01	0.0037 (J)	0.011	

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.17	5.71	
6/7/2016						5.62			5.77
7/27/2016						5.59	6.14	5.46	5.79
7/28/2016									
9/16/2016						5.58			
9/19/2016							6.04	5.59	5.73
11/2/2016									5.67
11/3/2016						5.59	5.97	5.39	
1/11/2017						5.59	6.05	5.48	
1/13/2017									5.79
3/1/2017							5.94	5.41	
3/2/2017						5.54			
3/6/2017									5.63
4/26/2017							5.99	5.4	5.66
5/2/2017						5.47			
6/28/2017							6	5.36	
6/29/2017						5.56			5.85
10/3/2017									
10/4/2017						5.57		5.32	5.83
10/5/2017							6.11		
3/28/2018						5.59	6.1	5.34	
3/29/2018									5.93
6/5/2018									
6/6/2018									5.86
6/7/2018							5.98		
6/11/2018						5.58		5.28	
9/25/2018						5.59	5.81	4.86	5.84
3/5/2019						5.48		5.26	6.07
3/6/2019							5.99		
4/2/2019						5.74			
4/3/2019							6.29	5.47	5.71
9/24/2019									
9/25/2019						5.49			5.86
9/26/2019							6.04	5.2	
1/3/2020	5.78								
1/15/2020		6.25			5.64				
1/16/2020			6.67	6.47					
2/11/2020			6.62		5.37	5.58	6.07	5.3	
2/12/2020									6
3/24/2020						5.57	5.98	5.33	5.86
3/25/2020	6.13								
9/23/2020		5.66		5.89		5.58 (D)	6.01 (D)	5.29 (D)	
9/24/2020	6				5.38				5.8 (D)
2/9/2021	6.42	5.81		6.96	5.34		6.12	5.43	5.86
3/3/2021	6.54	5.67		6.8		5.52	5.89	5.31	5.89
3/4/2021					5.32				
8/25/2021				6.79					
8/26/2021					5.35			4.4	
8/27/2021						5.27	5.4		5.57
9/1/2021	5.97	6.67							
9/3/2021			5.74						
2/9/2022						5.53	5.98	5.28	5.91

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/10/2022	5.8	5.64	5.93	6.1	5.22 (D)				

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	6.1
7/27/2016	
7/28/2016	6.12
9/16/2016	
9/19/2016	6.12
11/2/2016	
11/3/2016	6.07
1/11/2017	
1/13/2017	6.41
3/1/2017	
3/2/2017	
3/6/2017	6.34
4/26/2017	6.32
5/2/2017	
6/28/2017	
6/29/2017	6.47
10/3/2017	6.56
10/4/2017	
10/5/2017	
3/28/2018	
3/29/2018	6.75
6/5/2018	6.09
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	6.67
3/5/2019	7.22
3/6/2019	
4/2/2019	6.94
4/3/2019	
9/24/2019	6.87
9/25/2019	
9/26/2019	
1/3/2020	
1/15/2020	
1/16/2020	
2/11/2020	
2/12/2020	7.13
3/24/2020	6.35
3/25/2020	
9/23/2020	
9/24/2020	6.7 (D)
2/9/2021	6.95
3/3/2021	
3/4/2021	6.8
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	6.65
9/3/2021	
2/9/2022	6.84

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-21I (bg)

2/10/2022

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			6.36	7.67	5.75				
6/7/2016						5.57			
7/26/2016			6.22	7.66	5.72				
7/28/2016						5.6			
8/30/2016									5.64
8/31/2016									
9/14/2016			6.23	7.6	5.74				
9/20/2016						5.53			
11/2/2016			6.08	7.35					
11/4/2016					5.61				
11/8/2016						5.53			
11/16/2016									6.21
1/12/2017				7.49	5.71				
1/13/2017			6.19						
1/16/2017						5.59			
2/24/2017									
2/27/2017									6.09
3/6/2017			6.2						
3/7/2017				7.43	5.66				
3/9/2017						5.56			
5/1/2017			6.21	7.22					
5/2/2017					5.65	5.61			
5/10/2017									5.79
6/27/2017				7.32	5.7				
6/29/2017			6.21						
7/10/2017						5.68			
7/11/2017									5.45
10/3/2017				7.48	5.79				
10/5/2017			6.16						
10/11/2017	6.4					5.46			
10/12/2017		5.43					4.85	4.94	5.48
11/20/2017	6.33	5.1					4.87		
11/21/2017								4.69	
1/10/2018		4.97							
1/11/2018	6.29							4.73	
1/12/2018							4.78		
2/19/2018		5.6						4.96	
2/20/2018	7.22						5.1		
3/29/2018			6.09	7.02	5.63				
3/30/2018						5.73			
4/3/2018	6.87	5.84					4.76	5.31	
4/4/2018									5.93
6/6/2018				7.43					
6/7/2018			6.12		5.63				
6/12/2018						5.63			
6/27/2018								4.78	
6/28/2018	6.18	5.24					4.75		
8/7/2018	6.08	5.18					4.72	4.77	
9/20/2018									5.63
9/24/2018	5.81	5.14					4.67	4.78	
9/26/2018			5.84	7.13	5.63				
9/27/2018						5.47			

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/4/2019			6.18	7.46	5.75				
3/6/2019						5.84			
3/26/2019		5.3							
3/27/2019	5.84						4.79		5.57
3/28/2019								5	
4/3/2019			6.43	7.11	5.63				
4/4/2019						5.64			
8/21/2019	5.96	5.26							
8/22/2019							4.81	4.89	5.61
9/24/2019				6.93	5.6				
9/25/2019			6.2						
9/27/2019						5.77			
10/9/2019	5.81	5.22					4.8	4.86	5.5
2/12/2020	5.97	5.3	6.15	7.52	5.83				
3/24/2020		5.29		7.34	5.81				
3/25/2020	5.78		6.26				4.89	4.87	5.53
3/26/2020						5.69			
9/22/2020			5.8 (D)	7.19 (D)	5.99 (D)				
9/24/2020	5.7 (D)	5.43 (D)				5.51			5.55
9/25/2020							4.9	4.95	
2/8/2021					5.67				
2/9/2021			6.06			5.61	5.04		
2/10/2021	5.8	5.19						4.98	5.65
3/2/2021				7.15	5.63				
3/3/2021			6.21						
3/4/2021	5.54	5.23				5.44	5.01	4.69	5.59
8/25/2021						5.46			6.73
8/26/2021	6.91		5.82	7.16	5.51		4.54	6.77	
9/3/2021		4.75							
9/27/2021									
2/8/2022	5.78	5.26						5.07 (D)	
2/10/2022				6.99	5.14	5.51	4.85		5.57
2/11/2022			5.95						

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	7.27
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	6.79
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	6.39
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	6.5
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	6.32
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	5.97
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	6.41
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	5.69
9/24/2018	
9/26/2018	
9/27/2018	

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	5.96
4/3/2019	
4/4/2019	
8/21/2019	5.84
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	5.78
2/12/2020	
3/24/2020	
3/25/2020	5.79
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	5.75
2/8/2021	
2/9/2021	5.86
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	5.88
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	6.08
2/8/2022	5.82 (D)
2/10/2022	
2/11/2022	

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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				5.46				5.75	7.84
7/25/2016						6.21		5.82	
7/26/2016				5.45	7.43				7.88
8/30/2016		5.75							
9/1/2016	5.78								
9/13/2016					7.44	6.16	7.41		
9/14/2016									
9/15/2016				5.45					7.74
9/19/2016								5.78 (D)	
11/1/2016					7.24			5.62	7.75
11/2/2016				5.41					
11/4/2016						6.29	7.12		
11/14/2016		5.59							
11/15/2016	5.81								
11/28/2016			6.23						
12/15/2016							7.24		
1/10/2017				5.37					
1/11/2017					7.3				7.66
1/16/2017						6.29	7.24	5.72	
2/21/2017								5.67	
2/22/2017			6.21						
2/24/2017		5.49							
2/27/2017	5.68								
3/1/2017									
3/2/2017					7.23	6.28			7.68
3/3/2017							7.22		
3/8/2017				5.41					
4/26/2017				5.02				5.56	7.45
4/27/2017					6.99	6.09			
4/28/2017							7.21		
5/8/2017		5.58	6.12						
5/9/2017	6.18								
5/26/2017							7.13		
6/27/2017					6.87	6.21			
6/28/2017							7.06		7.65
6/30/2017				5.39				5.72	
7/11/2017		5.58							
7/13/2017	5.6								

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/17/2017			6.03						
10/3/2017					6.81	5.98	6.99		
10/4/2017								5.87	7.49
10/5/2017				5.49					
10/10/2017		5.49							
10/11/2017	5.61								
10/16/2017			6.12						
2/19/2018			6.13						
3/27/2018				5.47		6.25		5.83	
3/28/2018							7.3		7.91
3/29/2018					7.38				
4/2/2018		6.3 (O)							
4/4/2018	5.98								
6/5/2018					7.16				
6/6/2018						6.17			
6/7/2018							7.29		7.69
6/8/2018				5.45					
6/11/2018								5.69	
8/6/2018			6.01						
9/19/2018		5.48							
9/20/2018	5.67								
10/1/2018				5.39	6.8	5.9	7.07		7.39
10/2/2018								5.39	
2/25/2019			6.51						
2/26/2019				5.46				5.77	
2/27/2019					6.84	5.8	7.27		7.55
3/27/2019		5.83							
3/28/2019	5.86				6.99	6.15			
3/29/2019				5.34			7.06		
4/1/2019								5.62	7.87
6/12/2019			6.3						
8/19/2019			6.23						
8/20/2019		5.58							
9/24/2019					7.07	6.23	7.01		
9/25/2019				5.19				5.69	7.64
9/26/2019	5.6								
10/8/2019		5.59	6.28						
2/10/2020					7.2	6.1			
2/11/2020							7.38		
2/12/2020				5.48				5.8	7.83
3/17/2020		5.57	6.14						
3/18/2020				5.38		6.19			
3/19/2020					7.03		7.22	6	7.65
3/25/2020	5.69								
5/6/2020			6.24						
8/26/2020			5.67						
8/27/2020		4.88							
9/22/2020		5.46	5.78						
9/23/2020					7.15	6.01	7.22		7.57
9/24/2020	5.62							5.67	
9/25/2020				5.44					
2/9/2021	5.79								

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/10/2021				5.35			7.29		7.81
2/11/2021								5.73	
2/12/2021					7.14	6.21			
3/1/2021		5.48						5.78	
3/2/2021			5.42	5.49					
3/3/2021					7.2	5.38	7.92		8.39
3/4/2021	5.88								
8/19/2021		5.5		7.32	6.32	6.38			5.34
8/20/2021			5.86						
8/27/2021							7.14		
9/1/2021	5.15								
2/8/2022	5.79 (D)	5.4	5.83						
2/9/2022					7.12	6.24	5.89		7.97
2/10/2022				4.5					
2/11/2022								5.59	

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
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	7.72
6/2/2016	
7/25/2016	7.74
7/26/2016	
8/30/2016	
9/1/2016	
9/13/2016	
9/14/2016	7.65
9/15/2016	
9/19/2016	
11/1/2016	7.7
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	7.53
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	7.42
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	7.4
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	7.5
6/30/2017	
7/11/2017	
7/13/2017	

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
7/17/2017	
10/3/2017	
10/4/2017	7.45
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	7.74
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	7.64
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	7.47
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	7.54
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	7.74
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	7.47
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	7.09
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	7.31
3/25/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	7.37
9/24/2020	
9/25/2020	
2/9/2021	

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/10/2021	7.58
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	8.23
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	7.39
9/1/2021	
2/8/2022	
2/9/2022	7.66
2/10/2022	
2/11/2022	

Time Series

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			5.65				
8/1/2016			5.47				
9/2/2016				5.84			
9/20/2016			5.61				
11/8/2016			5.55				
11/14/2016				6.28			
1/17/2017			5.53				
2/28/2017				5.99			
3/8/2017			5.62				
5/2/2017			5.46				
5/9/2017				6.3			
7/7/2017			5.81				
7/13/2017				5.57			
9/22/2017				5.5			
9/29/2017				5.58			
10/5/2017			5.45				
10/6/2017				5.51			
10/11/2017				5.47			
10/12/2017		5.57					
11/21/2017		5.49					
1/11/2018		5.87					
2/20/2018		5.9					
3/30/2018			5.64	5.51			
4/3/2018		5.66					
6/12/2018			5.64				
6/13/2018				5.5			
6/29/2018		5.49					
8/6/2018		5.52					
9/24/2018		5.37					
9/26/2018			5.61	5.53			
3/5/2019			5.72				
3/6/2019				5.21			
4/4/2019			5.66	5.74			
9/26/2019			5.52	5.51			
3/25/2020	5.65			5.49			
3/26/2020			5.51				
9/23/2020			5.64				
9/24/2020	5.52						
9/25/2020		5.46					
10/7/2020				5.86			
2/9/2021		5.42	5.69				
2/10/2021	5.53			6.31			
3/3/2021			5.7				
3/4/2021	5.64	5.51		5.67			
8/25/2021		5.48					
9/1/2021	6.82		5.22				
9/3/2021				5.06	7.44		
2/10/2022	5.35	4.93 (D)	4.66				4.46
2/11/2022				5.58	7.84	6.4	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	<0.005	
6/7/2016						0.001 (J)			<0.005
7/27/2016						0.0012 (J)	<0.005	<0.005	<0.005
7/28/2016									
9/16/2016						0.0015 (J)		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						0.0015 (J)	<0.005	<0.005	
1/11/2017						0.0014 (J)	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						0.0017 (J)			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.0019 (J)								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
1/15/2020		<0.005			0.045				
1/16/2020			<0.005	0.0018 (J)					
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		0.016		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.026				<0.005
2/9/2021	<0.005	<0.005		<0.005	0.06		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	<0.005
3/4/2021					0.061				
8/25/2021				0.019					
8/26/2021					0.055			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.0027 (J)	<0.005							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0034 (J)	<0.005	<0.005	0.019	0.057				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.00048 (J)
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	0.0014 (J)
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	<0.005
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	<0.005
6/5/2018	<0.005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	<0.005
10/16/2018	
3/5/2019	<0.005
3/6/2019	
4/2/2019	<0.005
4/3/2019	
9/24/2019	<0.005
9/25/2019	
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
2/12/2020	<0.005
3/24/2020	<0.005
3/25/2020	
9/23/2020	
9/24/2020	<0.005
2/9/2021	<0.005
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	<0.005
2/10/2022	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						0.037			
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)				
7/28/2016						0.0385			
8/30/2016									0.0711
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						0.0464			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						0.0521			
11/16/2016									0.0313
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						0.0469			
2/24/2017									
2/27/2017									0.0316
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						0.0437			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	0.0395			
5/10/2017									0.053
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						0.0386			
7/11/2017									0.0697
10/11/2017	<0.005								
10/12/2017		<0.005					0.265	0.0191	0.0594
11/20/2017	<0.005	0.0042 (J)					0.246		
11/21/2017								0.0687	
1/10/2018		0.0043 (J)							
1/11/2018	<0.005							0.069	
1/12/2018							0.249		
2/19/2018		<0.005						0.071	
2/20/2018	<0.005						0.253		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						0.028			
4/3/2018	<0.005	<0.005					0.23	0.067	
4/4/2018									0.055
6/6/2018				<0.005					
6/7/2018			<0.005		<0.005				
6/12/2018						0.026			
6/27/2018								0.066	
6/28/2018	<0.005	0.0032 (J)					0.23		
8/7/2018	<0.005	0.0031 (J)					0.2	0.061	
9/20/2018									0.041
9/24/2018	0.0015 (J)	0.0026 (J)					0.2	0.061	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						0.023			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						0.019			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						0.017			
8/21/2019	<0.005	0.0024 (J)							
8/22/2019							0.14	0.058	0.047
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						0.018			
10/9/2019	<0.005	0.0026 (J)					0.12	0.052	0.042
2/12/2020	<0.005	0.002 (J)	<0.005	<0.005	<0.005				
3/24/2020		0.002 (J)		<0.005	<0.005				
3/25/2020	<0.005		<0.005				0.099	0.057	0.046
3/26/2020						0.024			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	<0.005	0.0016 (J)				0.031			0.046
9/25/2020							0.076	0.046	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.032	0.073		
2/10/2021	<0.005	<0.005						0.033	0.043
3/2/2021				<0.005	<0.005				
3/3/2021			0.0019 (J)						
3/4/2021	<0.005	<0.005				0.037	0.076	0.037	0.048
8/25/2021						0.032			0.043
8/26/2021	<0.005		<0.005	<0.005	<0.005		0.06	0.027	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	<0.005	0.0014 (J)						0.031	
2/10/2022				<0.005	<0.005	0.039	0.064		0.044
2/11/2022			<0.005						

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.005
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.005
2/12/2020	
3/24/2020	
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	
2/11/2022	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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				0.0011 (J)				<0.005	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				0.0016 (J)	<0.005				<0.005
8/30/2016		0.0017 (J)							
8/31/2016			<0.005						
9/1/2016	0.0086 (J)								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				0.0014 (J)					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	<0.005		
11/14/2016		<0.005							
11/15/2016	0.0056 (J)								
11/28/2016			<0.005						
12/15/2016							<0.005		
1/10/2017				0.0012 (J)					
1/11/2017					<0.005				<0.005
1/16/2017						<0.005	<0.005	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		0.0011 (J)							
2/27/2017	0.0098 (J)								
3/1/2017									
3/2/2017					<0.005	<0.005			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					<0.005	<0.005			
4/28/2017							<0.005		
5/8/2017		<0.005	<0.005						

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0076 (J)								
5/26/2017							<0.005		
6/27/2017					<0.005	<0.005			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	0.0093 (J)								
7/17/2017			<0.005						
10/10/2017		<0.005							
10/11/2017	0.0089 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.005								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0081 (J)								
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					<0.005	<0.005	<0.005		<0.005
3/28/2019					<0.005	<0.005			
3/29/2019				0.0019 (J)			<0.005		
4/1/2019								<0.005	<0.005
6/12/2019			<0.005						
8/19/2019			<0.005						
8/20/2019		<0.005							
9/24/2019					<0.005	<0.005	<0.005		
9/25/2019				<0.005				<0.005	<0.005
9/26/2019	0.0077 (J)								
10/8/2019			<0.005						
2/10/2020					<0.005	<0.005			
2/11/2020							<0.005		
2/12/2020				<0.005				<0.005	<0.005
3/17/2020			<0.005						
3/18/2020				<0.005		<0.005			
3/19/2020					<0.005		<0.005	<0.005	<0.005
3/25/2020	0.0085 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020			<0.005						
9/23/2020					<0.005	<0.005	<0.005		<0.005
9/24/2020	0.0091 (J)							<0.005	
9/25/2020				<0.005					
2/9/2021	0.0079 (J)								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021								<0.005	
3/2/2021			<0.005	<0.005					

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.005	<0.005	<0.005		<0.005
3/4/2021	0.0058								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	0.0066								
2/8/2022	0.0075	<0.005	<0.005						
2/9/2022					<0.005	<0.005	<0.005		<0.005
2/10/2022				0.0014 (J)					
2/11/2022								<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.005				
8/1/2016			<0.005				
9/2/2016				0.0012 (J)			
9/20/2016			<0.005				
11/8/2016			<0.005				
11/14/2016				<0.005			
1/17/2017			<0.005				
2/28/2017				0.0017 (J)			
3/8/2017			<0.005				
5/2/2017			<0.005				
5/9/2017				0.0018 (J)			
7/7/2017			<0.005				
7/13/2017				0.0031 (J)			
9/22/2017				0.0024 (J)			
9/29/2017				0.002 (J)			
10/6/2017				<0.005			
10/12/2017		0.234					
11/21/2017		0.225					
1/11/2018		0.168					
2/20/2018		0.315					
3/30/2018			<0.005	<0.005			
4/3/2018		0.28					
6/12/2018			<0.005				
6/13/2018				0.0024 (J)			
6/29/2018		0.26					
8/6/2018		0.21					
9/24/2018		0.33					
9/26/2018			<0.005	0.0037 (J)			
10/16/2018	<0.005						
3/5/2019			<0.005				
3/6/2019				0.0033 (J)			
4/4/2019			<0.005	0.0029 (J)			
9/26/2019	<0.005		<0.005	0.0019 (J)			
3/25/2020	<0.005			0.0024 (J)			
3/26/2020			<0.005				
9/23/2020			<0.005				
9/24/2020	<0.005						
9/25/2020		0.32					
10/7/2020				<0.005			
2/9/2021		0.28	<0.005				
2/10/2021	<0.005			<0.005			
3/3/2021			<0.005				
3/4/2021	<0.005	0.27		<0.005			
8/25/2021		0.2					
9/1/2021	0.0016 (J)		<0.005				
9/3/2021				<0.005	<0.005		
2/10/2022	0.003 (J)	0.2	<0.005				0.029
2/11/2022				<0.005	<0.005	0.0025 (J)	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							1.2	1.8	
6/7/2016						4.4			<1
7/27/2016						4.7	1.7	1.9	0.08 (J)
7/28/2016									
9/16/2016						4.8		1.7	
9/19/2016							1.8		0.08 (J)
11/2/2016									0.1 (J)
11/3/2016						5.3	0.69 (J)	1.9	
1/11/2017						5.2	<1	1.7	
1/13/2017									<1
3/1/2017							1.8	<1	
3/2/2017						5			
3/6/2017									<1
4/26/2017							1.6	1.9	<1
5/2/2017						5			
6/28/2017							<1	<1	
6/29/2017						5.2			<1
10/3/2017									
10/4/2017						5.3		1.7	<1
10/5/2017							1.6		
6/5/2018									
6/6/2018									0.049 (J)
6/7/2018							0.68 (J)		
6/11/2018						5.2		0.95 (J)	
9/25/2018						6.1	1	1.5	0.13 (J)
10/16/2018	83.7								
4/2/2019						5.1			
4/3/2019							0.82 (J)	1.3	0.12 (J)
9/24/2019									
9/25/2019						5.5			<1
9/26/2019	46.6						0.64 (J)	1	
3/24/2020						5.4	<1	0.99 (J)	<1
3/25/2020	11.7								
9/23/2020		9.1		152		5.1	0.53 (J)	1.1	
9/24/2020	13.1				438				<1
3/3/2021	16.9	7.9		91.7		5.2	<1	1	<1
3/4/2021					340				
8/25/2021				164					
8/26/2021					338			1.2	
8/27/2021						5.3	0.59 (J)		<1
9/1/2021	94.7	8.3							
2/9/2022						4.8	0.51 (J)	1.1	<1
2/10/2022	120	7.1	305	160	276				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	5.2
7/27/2016	
7/28/2016	5.1
9/16/2016	
9/19/2016	4.8
11/2/2016	
11/3/2016	5
1/11/2017	
1/13/2017	4.3
3/1/2017	
3/2/2017	
3/6/2017	4.5
4/26/2017	4.9
5/2/2017	
6/28/2017	
6/29/2017	5.5
10/3/2017	5.8
10/4/2017	
10/5/2017	
6/5/2018	6.1
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	7
10/16/2018	
4/2/2019	3.8
4/3/2019	
9/24/2019	1
9/25/2019	
9/26/2019	
3/24/2020	3
3/25/2020	
9/23/2020	
9/24/2020	3.6
3/3/2021	
3/4/2021	4.5
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	5
2/9/2022	3.9
2/10/2022	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8	20	1.9				
6/7/2016						56			
7/26/2016			7.7	20	1.8				
7/28/2016						57			
8/30/2016									980
8/31/2016									
9/14/2016			7.5	19	1.8				
9/20/2016						68			
11/2/2016			8.2	20					
11/4/2016					2				
11/8/2016						79			
11/16/2016									940
1/12/2017				19	1.9				
1/13/2017			8.1						
1/16/2017						72			
2/24/2017									
2/27/2017									940
3/6/2017			8						
3/7/2017				20	2.1				
3/9/2017						69			
5/1/2017			8.4	20					
5/2/2017					2	60			
5/10/2017									1200
6/27/2017				18	2.1				
6/29/2017			9.2						
7/10/2017						57			
7/11/2017									1300
10/3/2017				16	2.3				
10/5/2017			9.6						
10/11/2017	20					52			
10/12/2017		17					940	400	1100
11/20/2017	24	71					980		
11/21/2017								430	
1/10/2018		66							
1/11/2018	23							390	
1/12/2018							880		
2/19/2018		57.2						414	
2/20/2018	20.6						905		
4/3/2018	24.5	49.4					872	406	
4/4/2018									1020
6/6/2018				8.3					
6/7/2018			8.5		2				
6/12/2018						41.4			
6/27/2018								357	
6/28/2018	22	43.8					869		
8/7/2018	20.7	40.5					879	346	
9/20/2018									810
9/24/2018	21.2	39.7					872	358	
9/26/2018			10.2	7.9	2.3				
9/27/2018						39.6			
3/26/2019		34.3							
3/27/2019	17.7						851		831

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								258	
4/3/2019			8.5	7	2.1				
4/4/2019						27.9			
9/24/2019				5.5	2.4				
9/25/2019			8.5						
9/27/2019						30.3			
10/9/2019	15	27.9					708	263	725
3/24/2020		25.2		5.9	2.1				
3/25/2020	14.3		8.8				483	214	642
3/26/2020						36.5			
9/22/2020			8.2	5.5	2.1				
9/24/2020	11.7	22.9				52.5			579
9/25/2020							414	175	
3/2/2021				2.6	2.3				
3/3/2021			7.8						
3/4/2021	12	21.5				61.7 (M1)	356	117	537
8/25/2021						68			500
8/26/2021	19.2		8.5	6	2.4		328	117	
9/3/2021		21.3							
9/27/2021									
2/8/2022	14.6	17.9						109	
2/10/2022				4.9	2.4	78.7	290		485
2/11/2022			7.7						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	34
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	240
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	89
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	100
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	110
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	120
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	160
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	247
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	181
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	279
3/24/2020	
3/25/2020	164
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	281
3/2/2021	
3/3/2021	
3/4/2021	328
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	56.5
2/8/2022	133
2/10/2022	
2/11/2022	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					5	4.2			
6/2/2016				6.6				1.3	5.8
7/25/2016						3.7		1.2	
7/26/2016				6.1	5.4				6.7
8/30/2016		160							
8/31/2016			29						
9/1/2016	95								
9/13/2016					2.9	5.2			
9/14/2016							9.4		
9/15/2016				6.1					6
9/19/2016								1.2	
11/1/2016					3.9			1.3	4.9
11/2/2016				6.3					
11/4/2016						5	13		
11/14/2016		150							
11/15/2016	94								
11/28/2016			36						
12/15/2016							1.8		
1/10/2017				5.9					
1/11/2017					3.7				4.5
1/16/2017						7.9	11	<1	
2/21/2017								1.4	
2/22/2017			43						
2/24/2017		120							
2/27/2017	84								
3/1/2017									
3/2/2017					4.6	7.4			4.4
3/3/2017							8.8		
3/8/2017				7					
4/26/2017				7				1.4	5.1
4/27/2017					5.2	7.4			
4/28/2017							10		
5/8/2017		120	60						
5/9/2017	91								
5/26/2017							12		
6/27/2017					5.9	6.4			
6/28/2017							11		5.4
6/30/2017				6.5				<1	
7/11/2017		110							
7/13/2017	88								
7/17/2017			63						
10/3/2017					6.6	5.9	7.9		
10/4/2017								1.4	6.2
10/5/2017				7.9					
10/10/2017		93							
10/11/2017	86								
10/16/2017			62						
2/19/2018			64.6						
4/2/2018		88.8							
4/4/2018	76.5								
6/5/2018					6.4				
6/6/2018						4.4			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							8.8		6.7
6/8/2018				6.4					
6/11/2018								1.1	
8/6/2018			42.1						
9/19/2018		75							
9/20/2018	84.1								
10/1/2018				6.8	5.6	4	9.1		7.1
10/2/2018								1	
2/25/2019			42.1						
3/27/2019		65.9							
3/28/2019	82.8				8	4.3			
3/29/2019				7.3			9		
4/1/2019								0.96 (J)	7.2
6/12/2019			83.4						
9/24/2019					5.3	4.3	9.1		
9/25/2019				6.6				0.81 (J)	7
9/26/2019	80								
10/8/2019		52.3	128						
3/17/2020		71.6	98.6						
3/18/2020				8.1		5.3			
3/19/2020					10		12.4	1.6	9
3/25/2020	76.1								
9/22/2020		51.5	145						
9/23/2020					8.1	3.4	11.8		6.9
9/24/2020	77							0.69 (J)	
9/25/2020				6.1					
3/1/2021		51.6						0.88 (J)	
3/2/2021			156	6					
3/3/2021					9	4.4	10.6		7
3/4/2021	75.1								
8/19/2021		52.6		6.7	8.9	4.9		1	7.5
8/20/2021			121						
8/27/2021							16.7		
9/1/2021	79.8								
2/8/2022	73.9	50.9	107						
2/9/2022					9.3	5.1	18		7.2
2/10/2022				6.2					
2/11/2022								2.8	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	12
6/2/2016	
7/25/2016	8.4
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	8.6
9/15/2016	
9/19/2016	
11/1/2016	8.9
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	8.6
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	9.3
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	11
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	12
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	12
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	9.6
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	9.1
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	8.5
6/12/2019	
9/24/2019	
9/25/2019	13.8
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	12.9
3/25/2020	
9/22/2020	
9/23/2020	16.8
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	9.6
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	18.2
9/1/2021	
2/8/2022	
2/9/2022	16
2/10/2022	
2/11/2022	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<1				
8/1/2016			1.1				
9/2/2016				72			
9/20/2016			0.38 (J)				
11/8/2016			0.39 (J)				
11/14/2016				110			
1/17/2017			<1				
2/28/2017				110			
3/8/2017			0.29 (J)				
5/2/2017			0.29 (J)				
5/9/2017				130			
7/7/2017			0.37 (J)				
7/13/2017				140			
9/22/2017				160			
9/29/2017				160			
10/5/2017			<1				
10/6/2017				160			
10/11/2017				150			
10/12/2017		650					
11/21/2017		700					
1/11/2018		590					
2/20/2018		677					
4/3/2018		615					
6/12/2018			0.35 (J)				
6/13/2018				144			
6/29/2018		634					
8/6/2018		623					
9/24/2018		674					
9/26/2018			0.28 (J)	160			
10/16/2018	34.2						
4/4/2019			0.29 (J)	119			
9/26/2019	14.3		0.23 (J)	84.8			
3/25/2020	36.1			58.8			
3/26/2020			<1				
9/23/2020			<1				
9/24/2020	7.2						
9/25/2020		563					
10/7/2020				18.2			
3/3/2021			<1				
3/4/2021	8.8	485		6.3			
8/25/2021		472					
9/1/2021	38.7		<1				
9/3/2021				13.8	153		
2/10/2022	42.6	452	<1				306
2/11/2022				16.4	115	209	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									<0.001
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						<0.001			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	<0.001	
6/29/2017						<0.001			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
9/25/2018									
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						<0.001	<0.001	<0.001	<0.001
3/25/2020	<0.001								
9/23/2020		<0.001		<0.001		<0.001	<0.001	<0.001	
9/24/2020	<0.001				<0.001				<0.001
2/9/2021	<0.001	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.001
7/27/2016	
7/28/2016	<0.001
9/16/2016	
9/19/2016	<0.001
11/2/2016	
11/3/2016	<0.001
1/11/2017	
1/13/2017	<0.001
3/1/2017	
3/2/2017	
3/6/2017	<0.001
4/26/2017	<0.001
5/2/2017	
6/28/2017	
6/29/2017	<0.001
3/28/2018	
3/29/2018	<0.001
9/25/2018	<0.001
3/5/2019	<0.001
3/6/2019	
4/2/2019	<0.001
4/3/2019	
9/24/2019	<0.001
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.001
3/24/2020	<0.001
3/25/2020	
9/23/2020	
9/24/2020	<0.001
2/9/2021	<0.001
2/9/2022	<0.001
2/10/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.001	<0.001	<0.001				
6/7/2016						<0.001			
7/26/2016			<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016									<0.001
8/31/2016									
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									<0.001
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/24/2017									
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				<0.001	<0.001				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									<0.001
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	<0.001								
10/12/2017		<0.001					<0.001	<0.001	<0.001
11/20/2017	<0.001	<0.001					<0.001		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	<0.001							<0.001	
1/12/2018							<0.001		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/27/2018								<0.001	
6/28/2018	<0.001	<0.001					<0.001		
8/7/2018	<0.001	<0.001					<0.001	<0.001	
9/20/2018									<0.001
9/24/2018	<0.001	<0.001					<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001				
3/6/2019						<0.001			
4/3/2019			<0.001	<0.001	<0.001				
4/4/2019						<0.001			
8/21/2019	<0.001	<0.001							
8/22/2019							<0.001	<0.001	<0.001
9/24/2019				<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.001						
9/27/2019						<0.001			
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
3/24/2020		<0.001		<0.001	<0.001				
3/25/2020	<0.001		<0.001				<0.001	<0.001	<0.001
3/26/2020						<0.001			
9/22/2020			<0.001	<0.001	<0.001				
9/24/2020	<0.001	<0.001				<0.001			<0.001
9/25/2020							<0.001	<0.001	
2/8/2021				<0.001	<0.001				
2/9/2021			<0.001			<0.001	<0.001		
2/10/2021	<0.001	<0.001						<0.001	<0.001
2/8/2022	<0.001	<0.001						<0.001	
2/10/2022				<0.001	<0.001	<0.001	<0.001		<0.001
2/11/2022			<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.001
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.001
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.001
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.001
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.001
10/11/2017	
10/12/2017	<0.001
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.001
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.001
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.001
8/22/2019	
9/24/2019	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	<0.001
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	<0.001
2/10/2021	
2/8/2022	<0.001
2/10/2022	
2/11/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (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	<0.001
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					<0.001	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					<0.001
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016			<0.001						
12/15/2016							<0.001		
1/10/2017				<0.001					
1/11/2017					<0.001				<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017								<0.001	
2/22/2017			<0.001						
2/24/2017		<0.001							
2/27/2017	9E-05 (J)								
3/1/2017									
3/2/2017					<0.001	<0.001			<0.001
3/3/2017							<0.001		
3/8/2017				<0.001					
4/26/2017				<0.001				<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017							<0.001		
5/8/2017		<0.001	6E-05 (J)						
5/9/2017	<0.001								

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/26/2017							<0.001		
6/27/2017					<0.001	<0.001			
6/28/2017							<0.001		<0.001
6/30/2017				<0.001				<0.001	
7/11/2017		<0.001							
7/13/2017	<0.001								
7/17/2017			6E-05 (J)						
10/10/2017		<0.001							
10/11/2017	<0.001								
10/16/2017			7E-05 (J)						
2/19/2018			<0.001						
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			5.5E-05 (J)						
8/20/2019		5.8E-05 (J)							
9/26/2019	<0.001								
10/8/2019		8.4E-05 (J)	<0.001						
2/10/2020					<0.001	5.5E-05 (J)			
2/11/2020							<0.001		
2/12/2020				8.9E-05 (J)				<0.001	<0.001
3/17/2020		<0.001	<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					<0.001		<0.001	<0.001	<0.001
3/25/2020	<0.001								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020			<0.001						
9/23/2020					<0.001	<0.001	<0.001		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				<0.001			<0.001		<0.001
2/11/2021								<0.001	
2/12/2021					<0.001	<0.001			
3/2/2021			<0.001						
8/19/2021		<0.001							
8/20/2021			<0.001						
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022					<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
2/16/2016	
6/1/2016	<0.001
6/2/2016	
7/25/2016	<0.001
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.001
9/15/2016	
9/19/2016	
11/1/2016	<0.001
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.001
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.001
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/26/2017	
6/27/2017	
6/28/2017	<0.001
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.001
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.001
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.001
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.00016 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/2/2021	
8/19/2021	
8/20/2021	
2/8/2022	
2/9/2022	<0.001
2/10/2022	
2/11/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.001				
8/1/2016			<0.001				
9/2/2016				<0.001			
9/20/2016			<0.001				
11/8/2016			<0.001				
11/14/2016				<0.001			
1/17/2017			<0.001				
2/28/2017				<0.001			
3/8/2017			<0.001				
5/2/2017			<0.001				
5/9/2017				<0.001			
7/7/2017			<0.001				
7/13/2017				<0.001			
9/22/2017				<0.001			
9/29/2017				<0.001			
10/6/2017				<0.001			
10/12/2017		<0.001					
11/21/2017		<0.001					
1/11/2018		<0.001					
2/20/2018		<0.001					
3/30/2018			<0.001	<0.001			
4/3/2018		<0.001					
6/29/2018		<0.001					
8/6/2018		<0.001					
9/24/2018		<0.001					
3/5/2019			<0.001				
3/6/2019				<0.001			
4/4/2019			<0.001	<0.001			
9/26/2019	<0.001		<0.001	<0.001			
3/25/2020	<0.001			<0.001			
3/26/2020			<0.001				
9/23/2020			<0.001				
9/24/2020	<0.001						
9/25/2020		<0.001					
10/7/2020				<0.001			
2/9/2021		<0.001	<0.001				
2/10/2021	<0.001			<0.001			
2/10/2022	<0.001	<0.001	<0.001				<0.001
2/11/2022				<0.001	<0.001	<0.001	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							120	58	
6/7/2016						28			38
7/27/2016						74	94	35	74
7/28/2016									
9/16/2016						67		35	
9/19/2016							92		45
11/2/2016									53
11/3/2016						41	104	48	
1/11/2017						104	133	95	
1/13/2017									46
3/1/2017							119	79	
3/2/2017						77			
3/6/2017									164
4/26/2017							162	36	34
5/2/2017						142			
6/28/2017							98	45	
6/29/2017						53			68
10/3/2017									
10/4/2017						61		45	54
10/5/2017							104		
6/5/2018									
6/6/2018									79
6/7/2018							68		
6/11/2018						70		74	
9/25/2018						86	109	63	73
10/16/2018	209								
4/2/2019						72			
4/3/2019							89	63	57
9/24/2019									
9/25/2019						81			75
9/26/2019							126	72	
3/24/2020						71	91	59	76
3/25/2020	139								
9/23/2020		62		329		99	103	81	
9/24/2020	106				788				69
3/3/2021	121	40		245		57	95	37	53
3/4/2021					604				
8/25/2021				332					
8/26/2021					570			31	
8/27/2021						93	112		67
9/1/2021	219	60							
2/9/2022						81	103	60	72
2/10/2022	281	48	606	346	499				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	60
7/27/2016	
7/28/2016	81
9/16/2016	
9/19/2016	68
11/2/2016	
11/3/2016	61
1/11/2017	
1/13/2017	76
3/1/2017	
3/2/2017	
3/6/2017	167
4/26/2017	50
5/2/2017	
6/28/2017	
6/29/2017	94
10/3/2017	149
10/4/2017	
10/5/2017	
6/5/2018	109
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	122
10/16/2018	
4/2/2019	134
4/3/2019	
9/24/2019	157
9/25/2019	
9/26/2019	
3/24/2020	117
3/25/2020	
9/23/2020	
9/24/2020	113
3/3/2021	
3/4/2021	110
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	137
2/9/2022	131
2/10/2022	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			96	160	66				
6/7/2016						130			
7/26/2016			92	177	78				
7/28/2016						119			
8/30/2016									1650
8/31/2016									
9/14/2016			102	187	73				
9/20/2016						132			
11/2/2016			115	181					
11/4/2016					75				
11/8/2016						146			
11/16/2016									1420
1/12/2017				202	86				
1/13/2017			67						
1/16/2017						194			
2/24/2017									
2/27/2017									1640
3/6/2017			159						
3/7/2017				257	108				
3/9/2017						288			
5/1/2017			107	165					
5/2/2017					103	221			
5/10/2017									1630
6/27/2017				189	73				
6/29/2017			79						
7/10/2017						123			
7/11/2017									1800
10/3/2017				170	89				
10/5/2017			95						
10/11/2017	68					100			
10/12/2017		74					1360	636	1600
11/20/2017	139	179					1390		
11/21/2017								706	
1/10/2018		140							
1/11/2018	153							701	
1/12/2018							1400		
2/19/2018		119						630	
2/20/2018	87						1300		
4/3/2018	85	106					1390	660	
4/4/2018									1520
6/6/2018				151					
6/7/2018			90		142				
6/12/2018						115			
6/27/2018								575	
6/28/2018	88	112					1310		
8/7/2018	89	103					1340	574	
9/20/2018									1240
9/24/2018	82	107					1400	588	
9/26/2018			116	144	86				
9/27/2018						105			
3/26/2019		90							
3/27/2019	75						1190		1100

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								372	
4/3/2019			111	142	83				
4/4/2019						85			
9/24/2019				129	79				
9/25/2019			117						
9/27/2019						96			
10/9/2019	119	98					1100	440	1170
3/24/2020		84		139	68				
3/25/2020	158		146				883	428	1200
3/26/2020						110			
9/22/2020			83	104	75				
9/24/2020	170	77				129			1060
9/25/2020							664	307	
3/2/2021				52	67				
3/3/2021			80						
3/4/2021	168	57				96	600	224	501
8/25/2021						141			886
8/26/2021	249		93	123	86		562	225	
9/3/2021		88							
9/27/2021									
2/8/2022	248	93						226	
2/10/2022				127	77	180	541		882
2/11/2022			102						

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	80
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	112
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	147
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	203
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	238
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	287
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	292
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	434
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	323
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	501
3/24/2020	
3/25/2020	352
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	494
3/2/2021	
3/3/2021	
3/4/2021	592
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	158
2/8/2022	294
2/10/2022	
2/11/2022	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					120	54			
6/2/2016				46				36	130
7/25/2016						48		50	
7/26/2016				54	94				141
8/30/2016		319							
8/31/2016			209						
9/1/2016	228								
9/13/2016					105	67			
9/14/2016							152		
9/15/2016				54					153
9/19/2016								35	
11/1/2016					44			<25	92
11/2/2016				71					
11/4/2016						60	148		
11/14/2016		280							
11/15/2016	211								
11/28/2016			102						
12/15/2016							191		
1/10/2017				45					
1/11/2017					107				159
1/16/2017						65	180	47	
2/21/2017								<25	
2/22/2017			164						
2/24/2017		162							
2/27/2017	382								
3/1/2017									
3/2/2017					98	61			117
3/3/2017							156		
3/8/2017				178					
4/26/2017				52				55	181
4/27/2017					116	31			
4/28/2017							130		
5/8/2017		194	145						
5/9/2017	154								
5/26/2017							223		
6/27/2017					89	42			
6/28/2017							166		169
6/30/2017				45				42	
7/11/2017		193							
7/13/2017	192								
7/17/2017			185						
10/3/2017					119	58	153		
10/4/2017								31	141
10/5/2017				40					
10/10/2017		175							
10/11/2017	177								
10/16/2017			218						
2/19/2018			173						
4/2/2018		192							
4/4/2018	174								
6/5/2018					127				
6/6/2018						96			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							146		95
6/8/2018				114					
6/11/2018								59	
8/6/2018			158						
9/19/2018		186							
9/20/2018	186								
10/1/2018				50	117	60	155		165
10/2/2018								57	
2/25/2019			92						
3/27/2019		170							
3/28/2019	164				87	87			
3/29/2019				63			150		
4/1/2019								54	149
6/12/2019			226						
9/24/2019					124	54	146		
9/25/2019				64				51	157
9/26/2019	192								
10/8/2019		172	276						
3/17/2020		165	185						
3/18/2020				57		35			
3/19/2020					116		148	47	146
3/25/2020	130								
9/22/2020		141	281						
9/23/2020					108	15	161		157
9/24/2020	187							51	
9/25/2020				54					
3/1/2021		145						23	
3/2/2021			296	67					
3/3/2021					99	39	138		137
3/4/2021	145								
8/19/2021		134		54	105	44		50	144
8/20/2021			254						
8/27/2021							150		
9/1/2021	163								
2/8/2022	164	151	283						
2/9/2022					105	57	156		154
2/10/2022				56					
2/11/2022								66	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	150
6/2/2016	
7/25/2016	135
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	127
9/15/2016	
9/19/2016	
11/1/2016	75
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	148
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	182
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	92
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	126
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	147
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	158
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	138
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	19 (J)
6/12/2019	
9/24/2019	
9/25/2019	159
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	148
3/25/2020	
9/22/2020	
9/23/2020	155
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	111
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	155
9/1/2021	
2/8/2022	
2/9/2022	145
2/10/2022	
2/11/2022	

Time Series

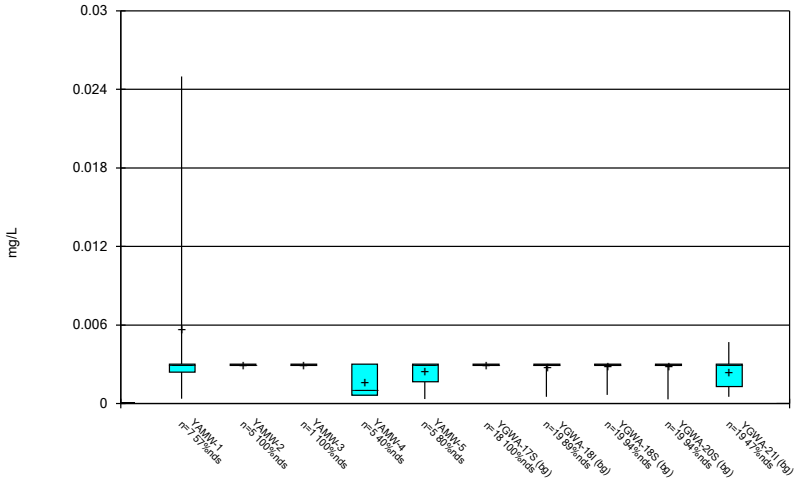
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			66				
8/1/2016			56				
9/2/2016				243			
9/20/2016			53				
11/8/2016			58				
11/14/2016				272			
1/17/2017			56				
2/28/2017				306			
3/8/2017			192				
5/2/2017			113				
5/9/2017				303			
7/7/2017			46				
7/13/2017				282			
9/22/2017				309			
9/29/2017				273			
10/5/2017			48				
10/6/2017				287			
10/11/2017				264			
10/12/2017		1060					
11/21/2017		1100					
1/11/2018		1020					
2/20/2018		1050					
4/3/2018		1080					
6/12/2018			79				
6/13/2018				292			
6/29/2018		979					
8/6/2018		1020					
9/24/2018		1090					
9/26/2018			59	277			
10/16/2018	123						
4/4/2019			63	240			
9/26/2019			81	198			
3/25/2020	84			164			
3/26/2020			67				
9/23/2020			87				
9/24/2020	100						
9/25/2020		878					
10/7/2020				137			
3/3/2021			70				
3/4/2021	59	856		69			
8/25/2021		876					
9/1/2021	128		96				
9/3/2021				89	374		
2/10/2022	130	798	78				574
2/11/2022				81	382	456	

FIGURE B.

Box & Whiskers Plot

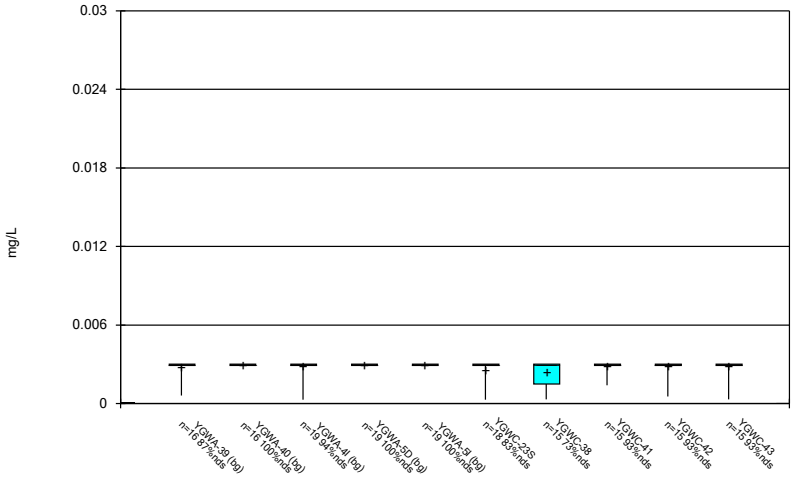


Constituent: Antimony Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

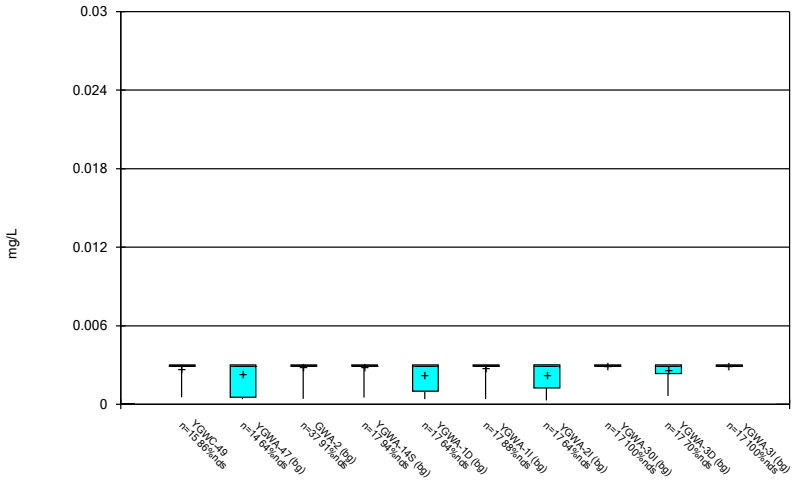


Constituent: Antimony Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

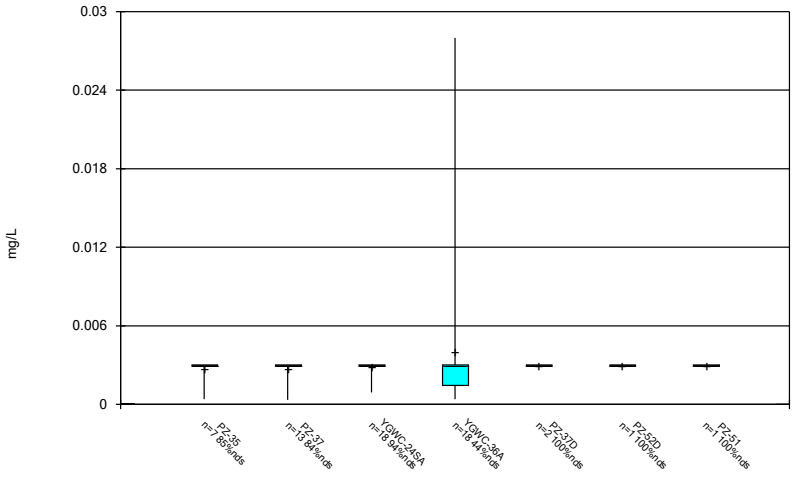


Constituent: Antimony Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

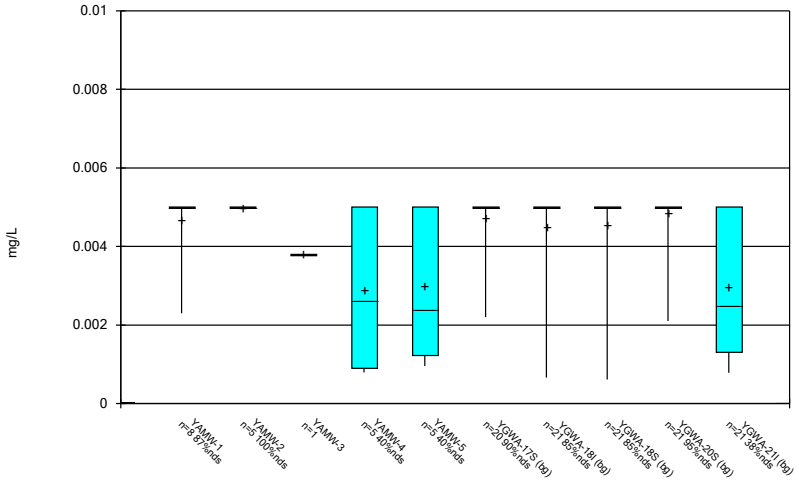
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

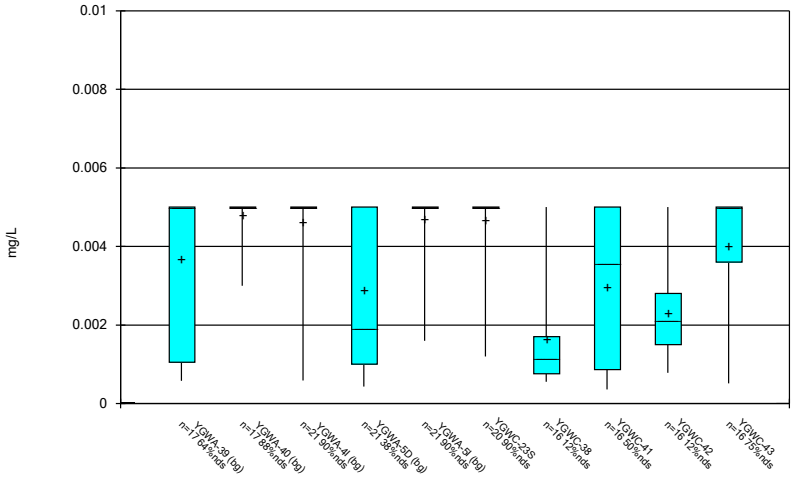


Constituent: Arsenic Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

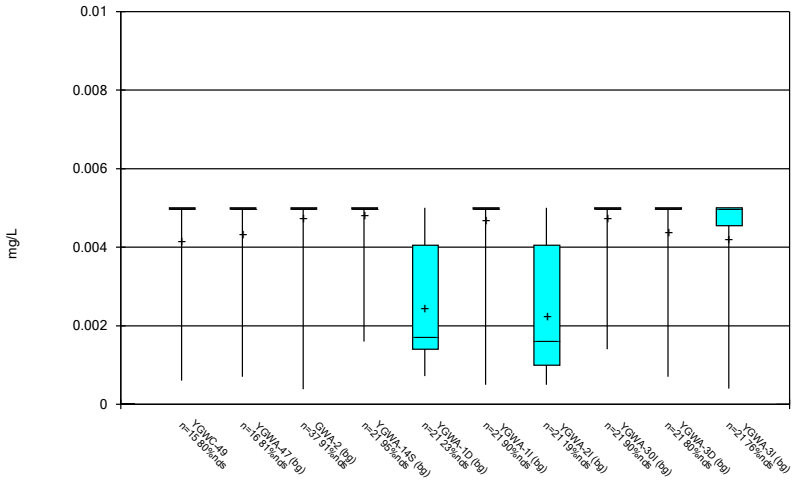


Constituent: Arsenic Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

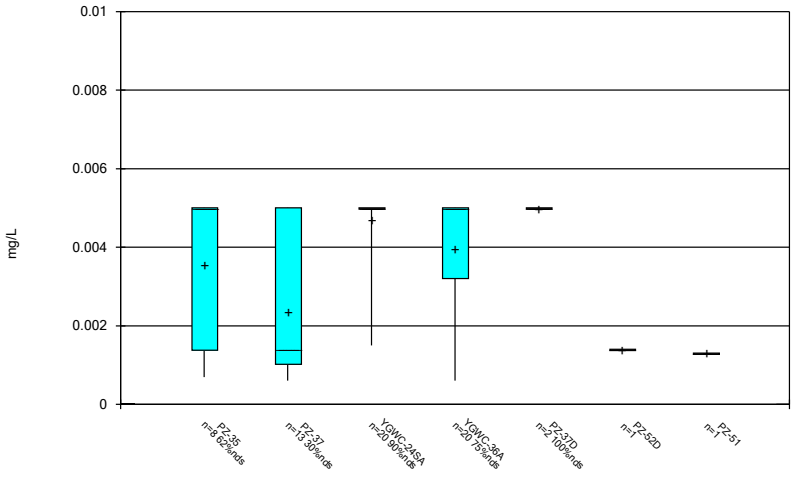


Constituent: Arsenic Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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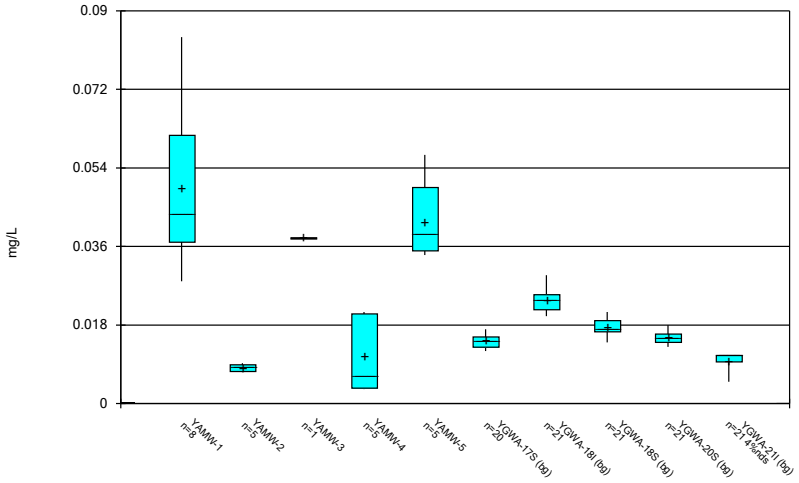
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

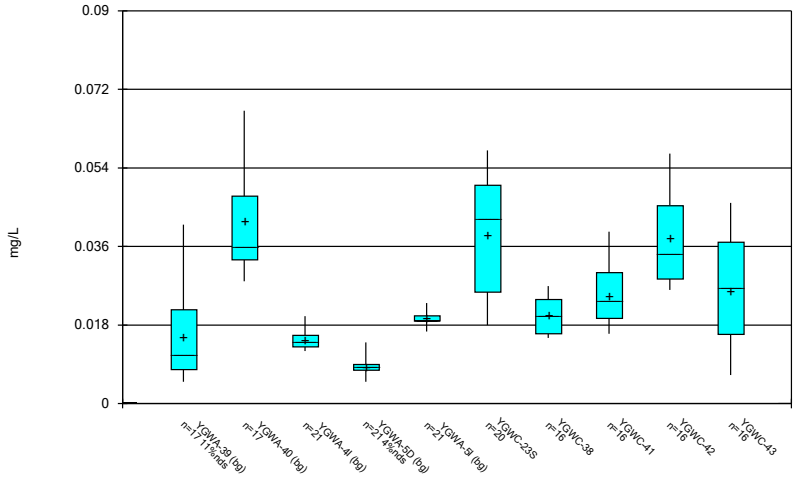


Constituent: Barium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

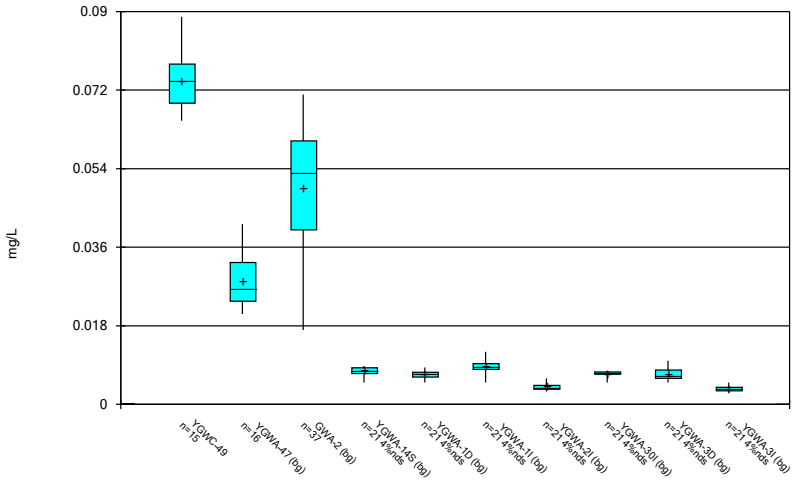


Constituent: Barium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

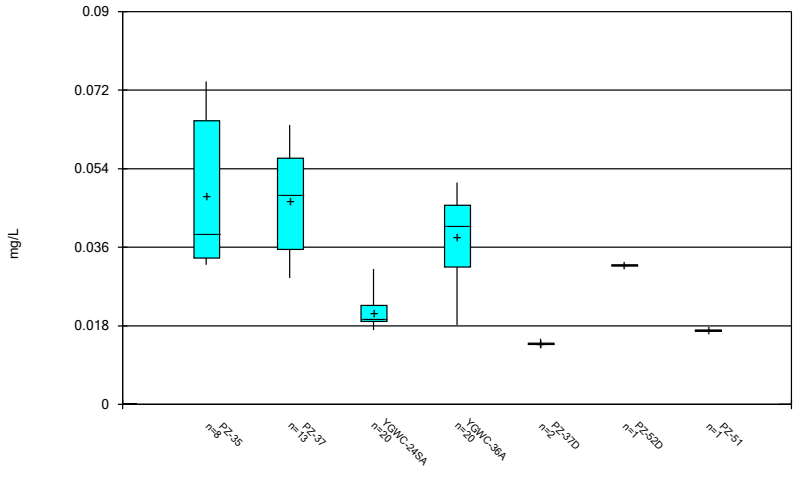


Constituent: Barium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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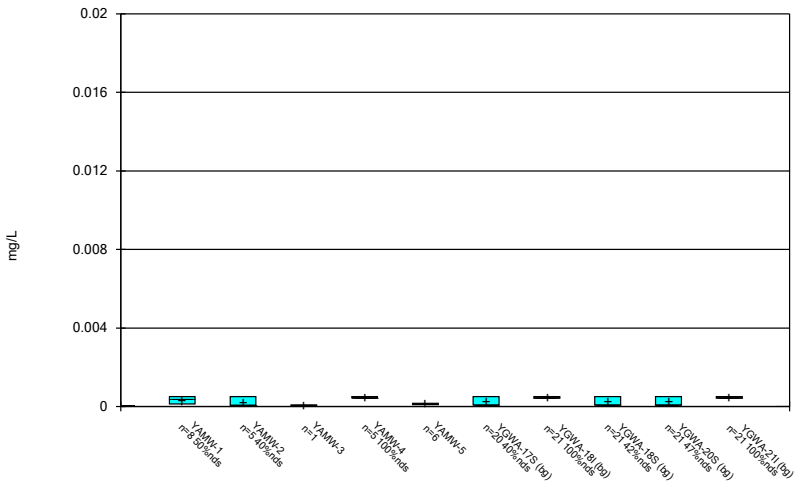
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

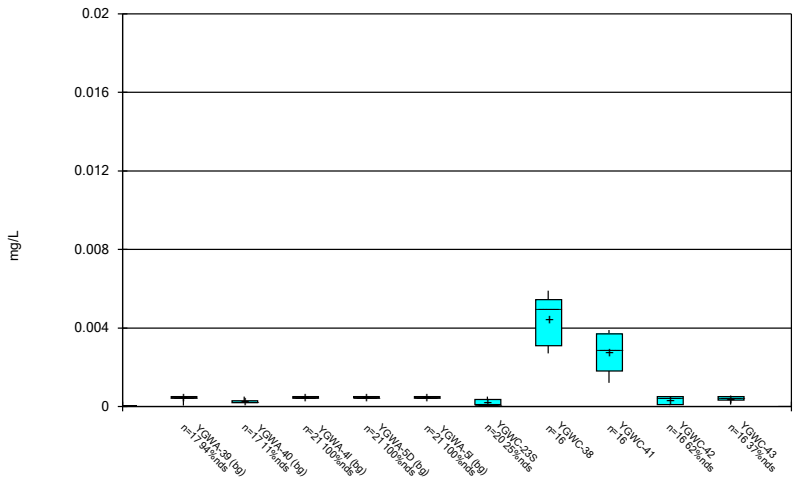


Constituent: Beryllium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

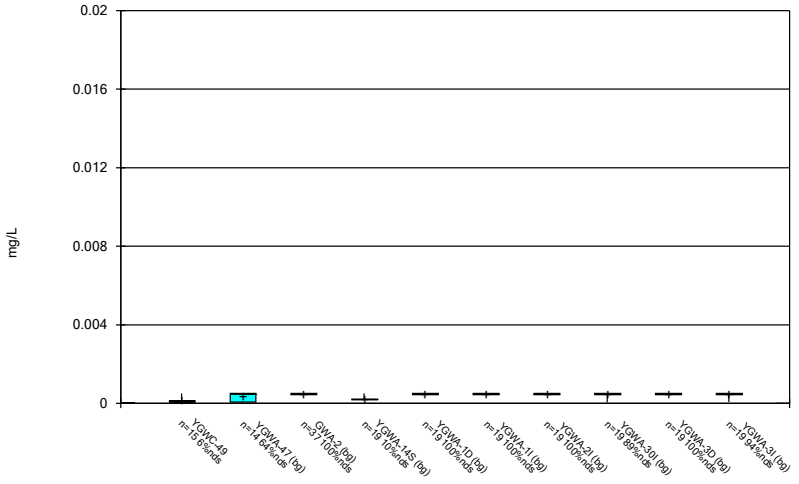


Constituent: Beryllium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

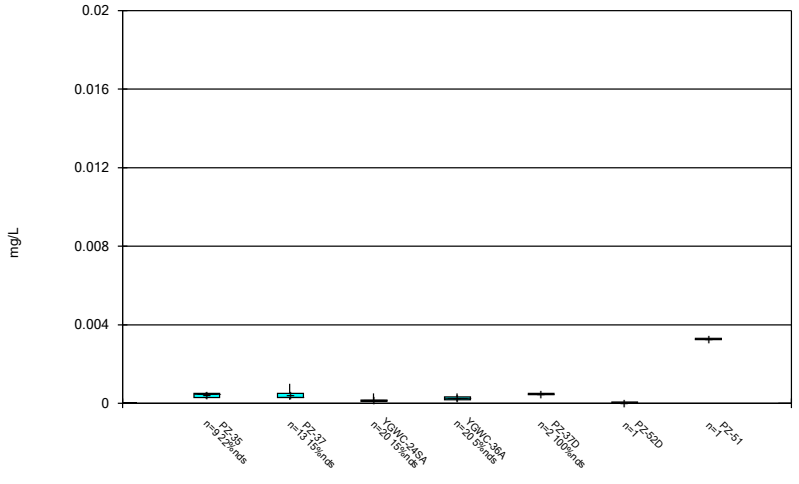


Constituent: Beryllium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

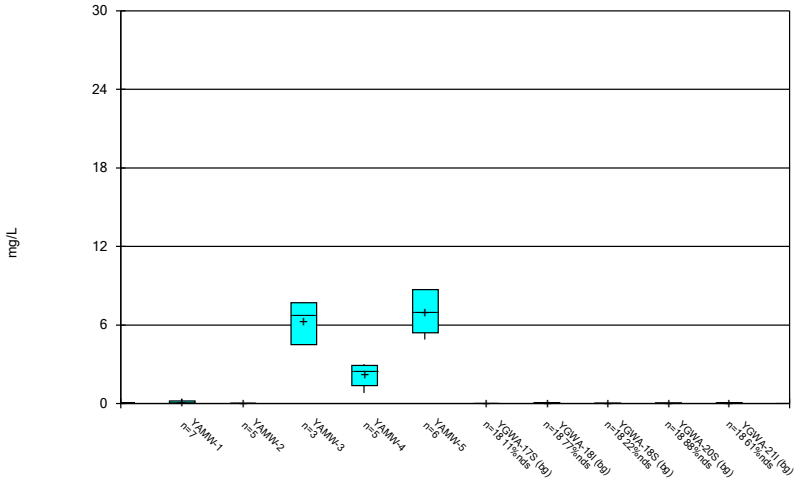
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

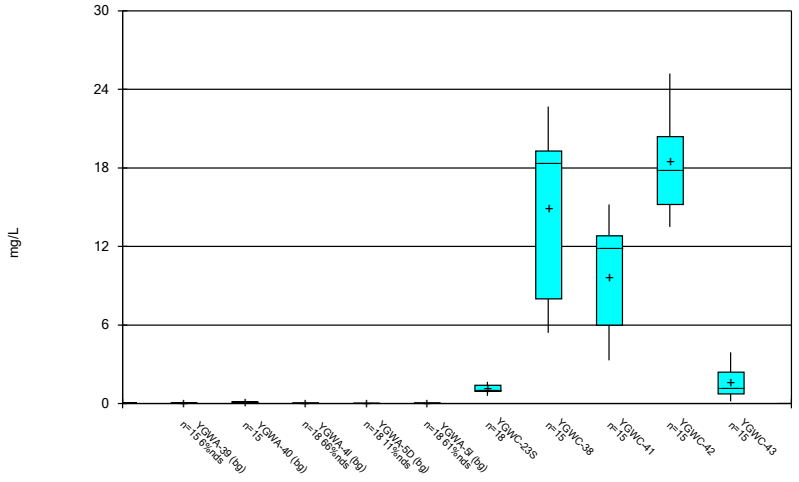


Constituent: Boron Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

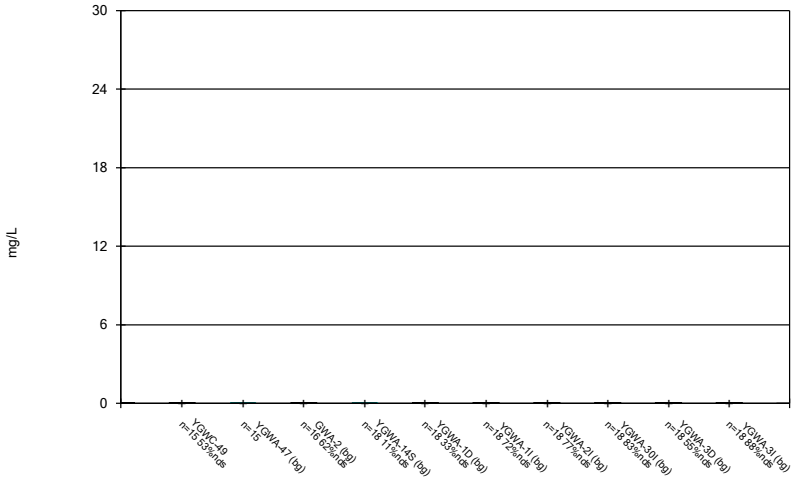


Constituent: Boron Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

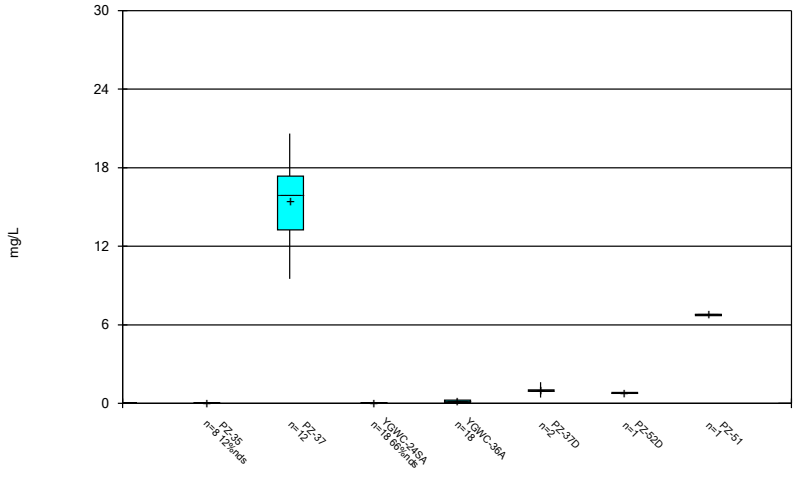


Constituent: Boron Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

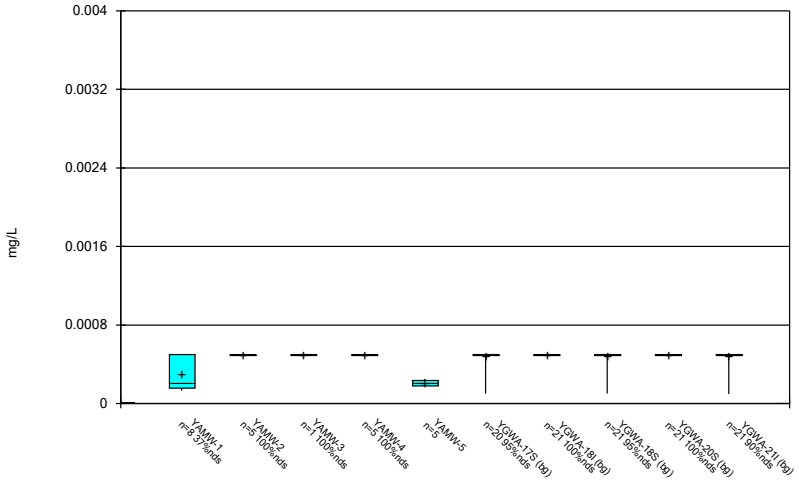
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

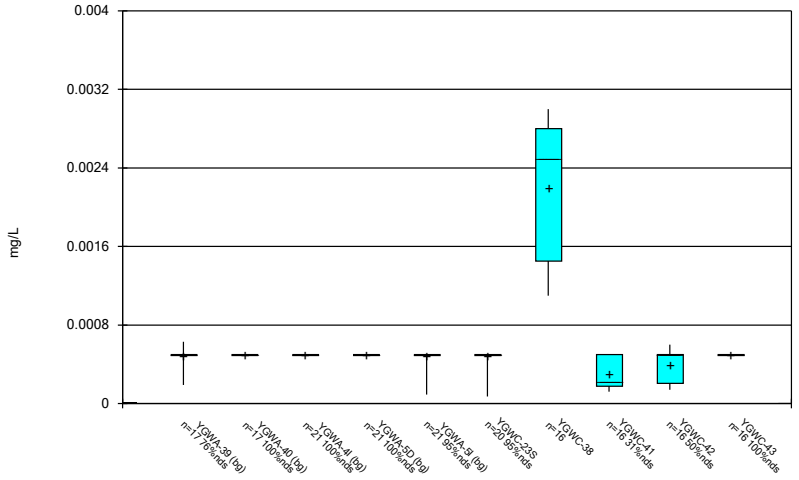


Constituent: Cadmium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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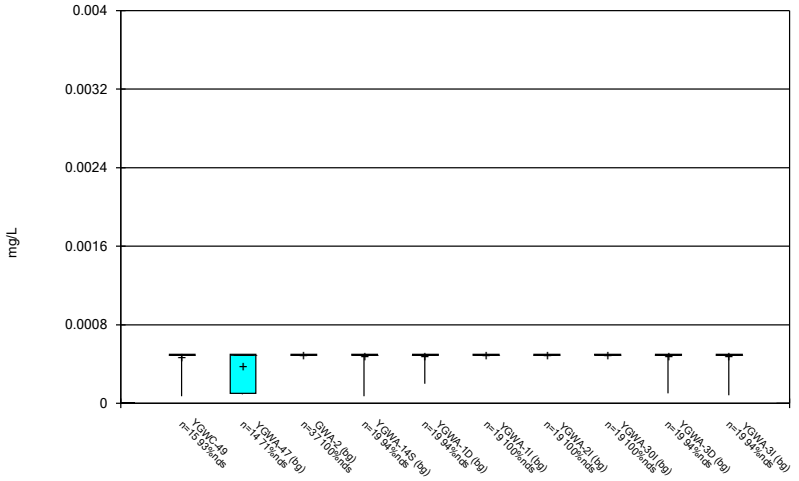
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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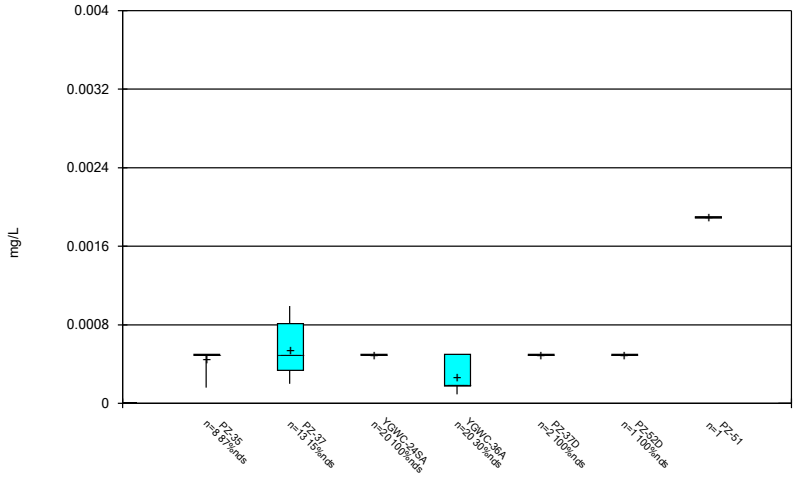
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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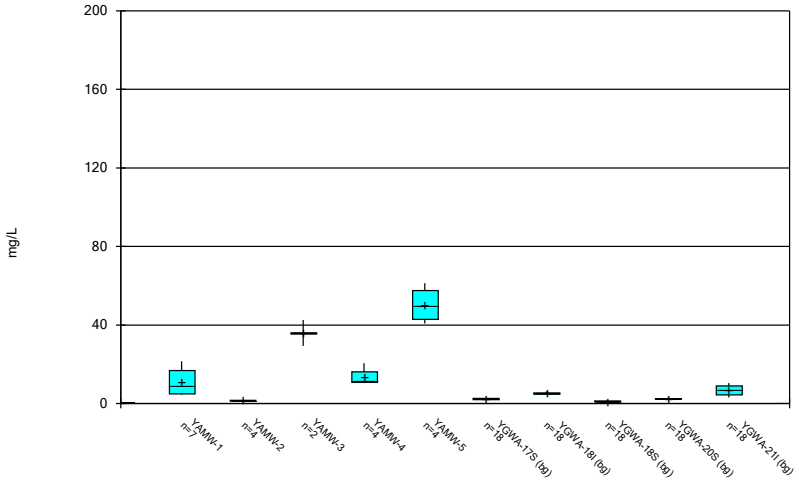
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



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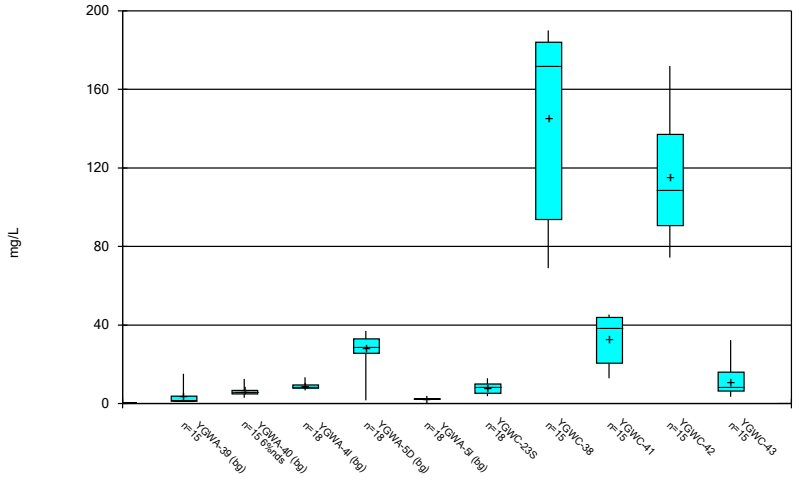
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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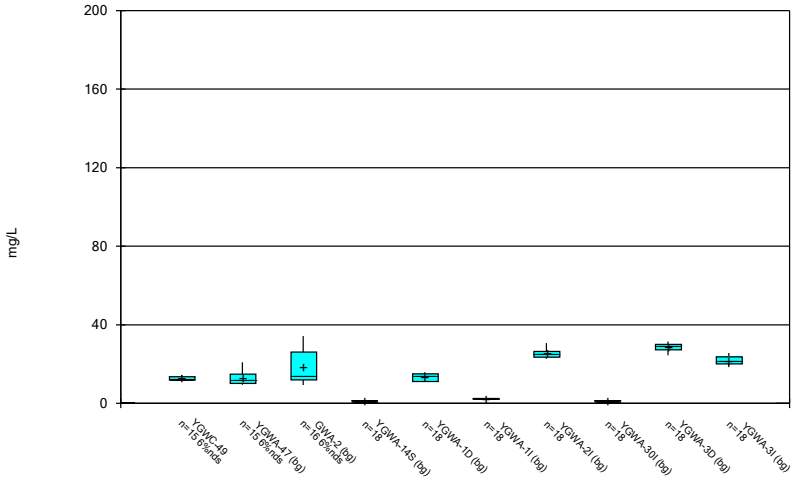
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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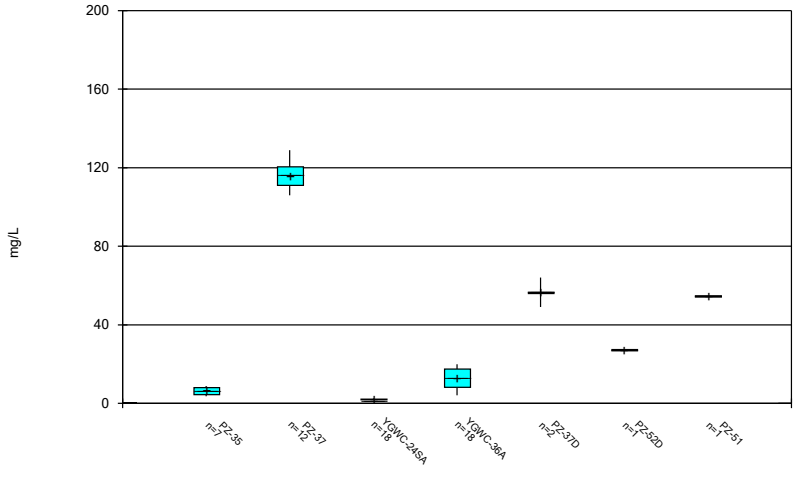
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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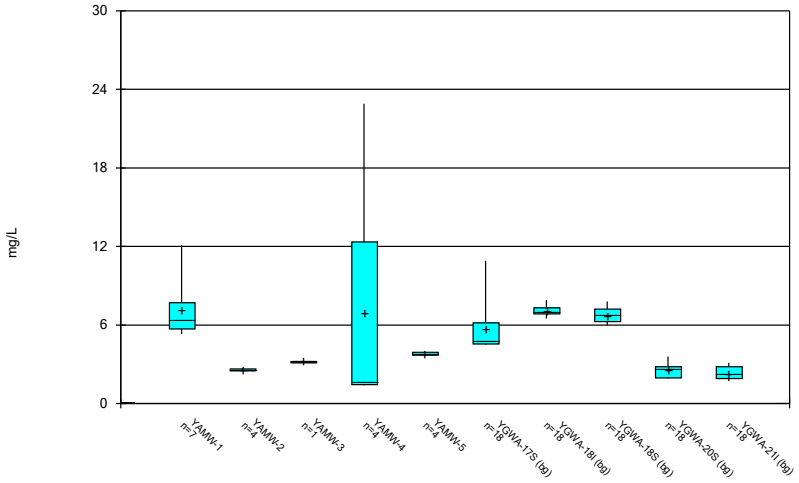
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



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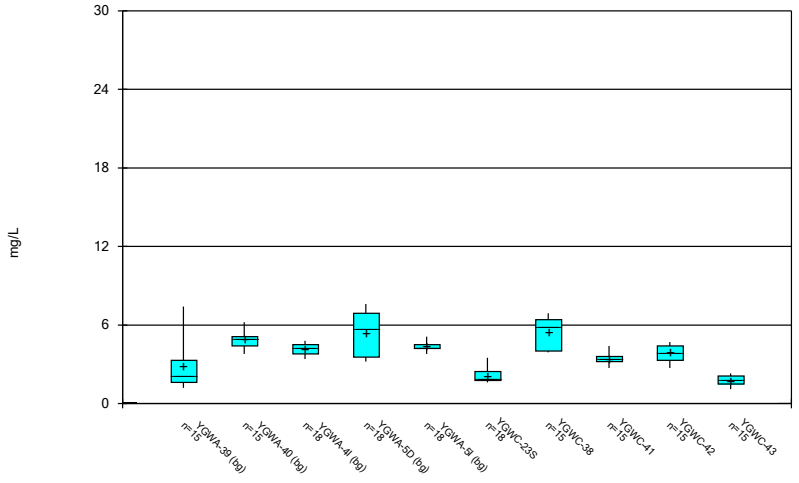
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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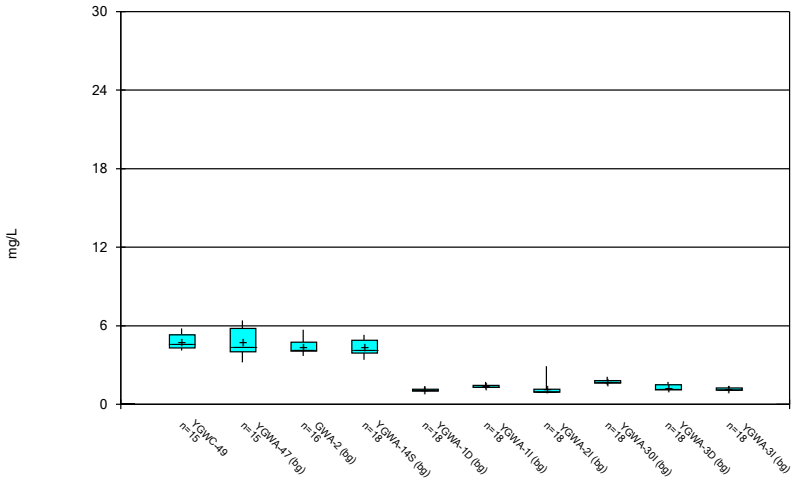
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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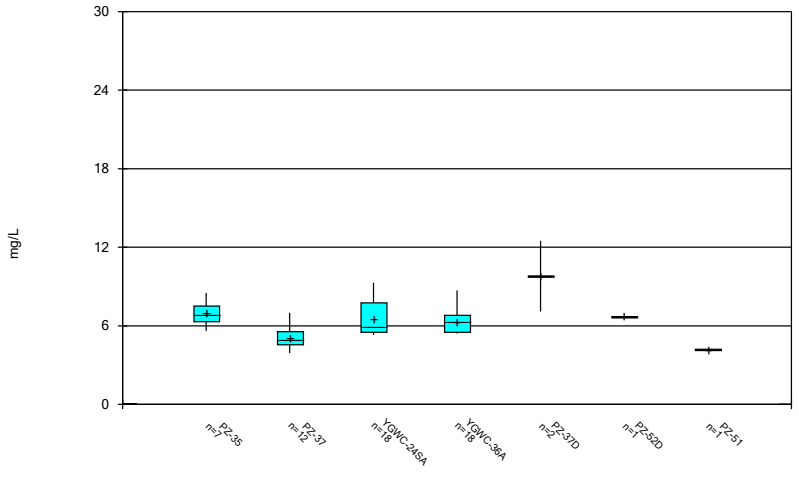
Box & Whiskers Plot



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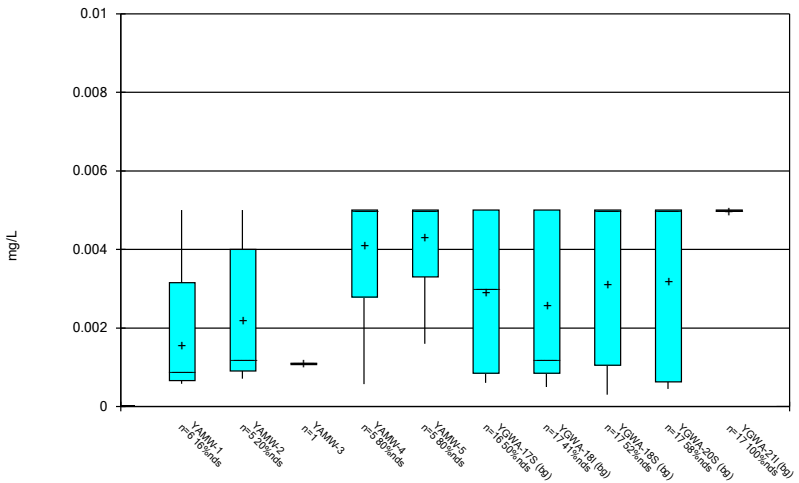
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

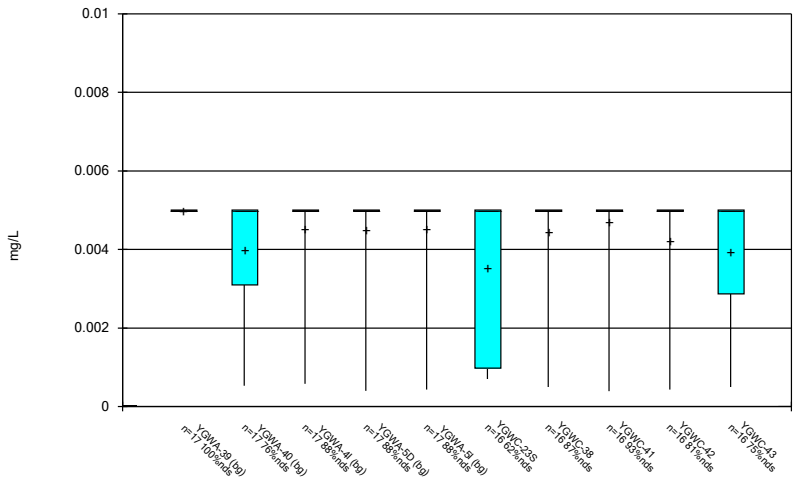


Constituent: Chromium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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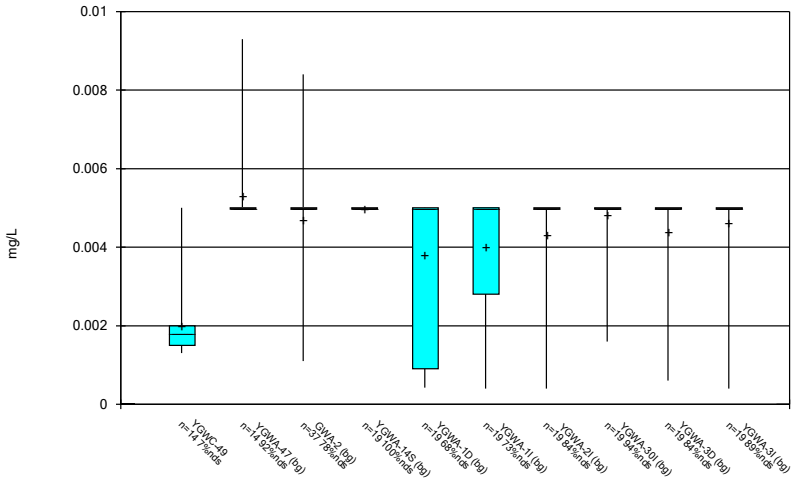
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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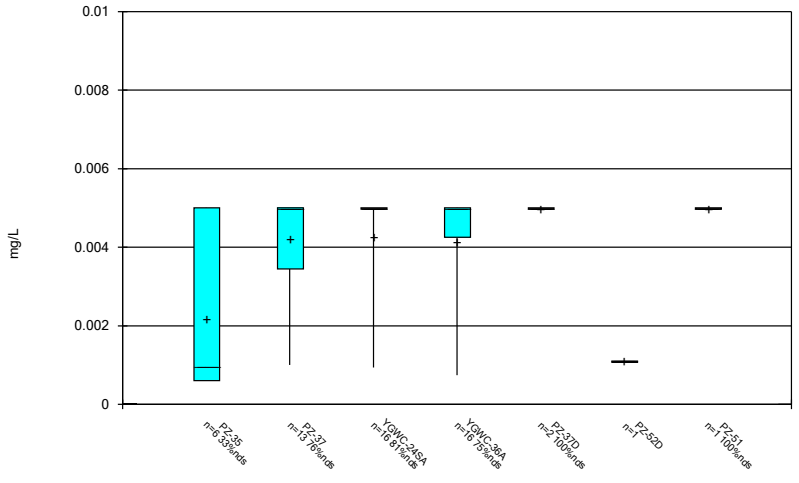
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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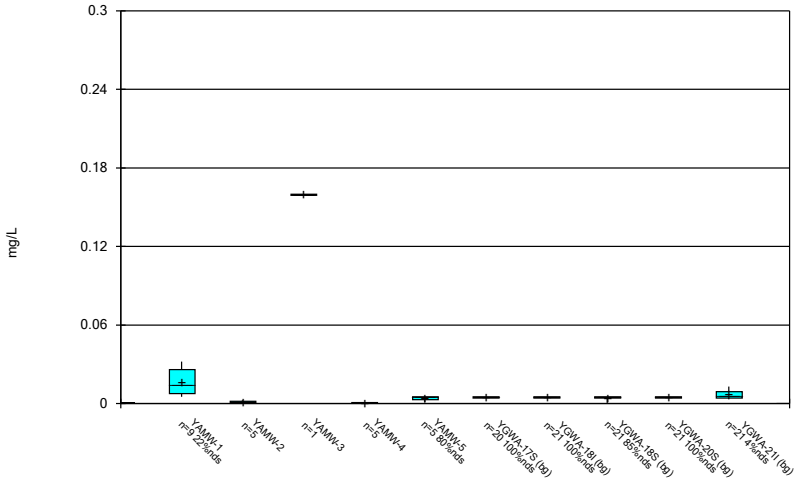
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



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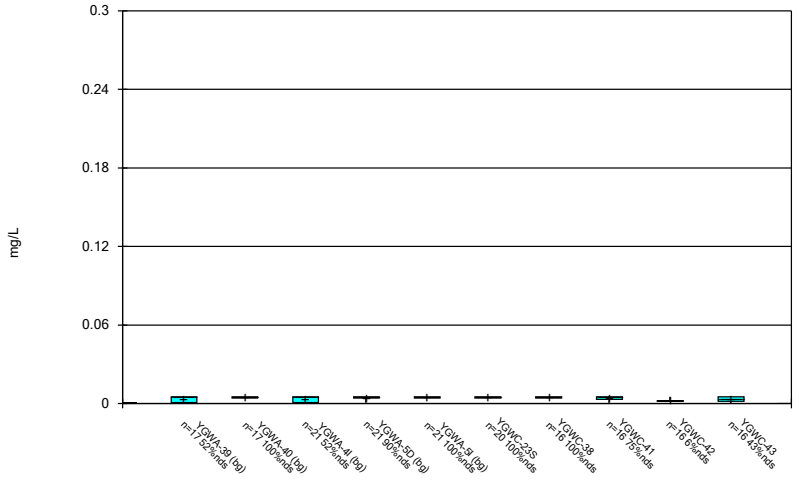
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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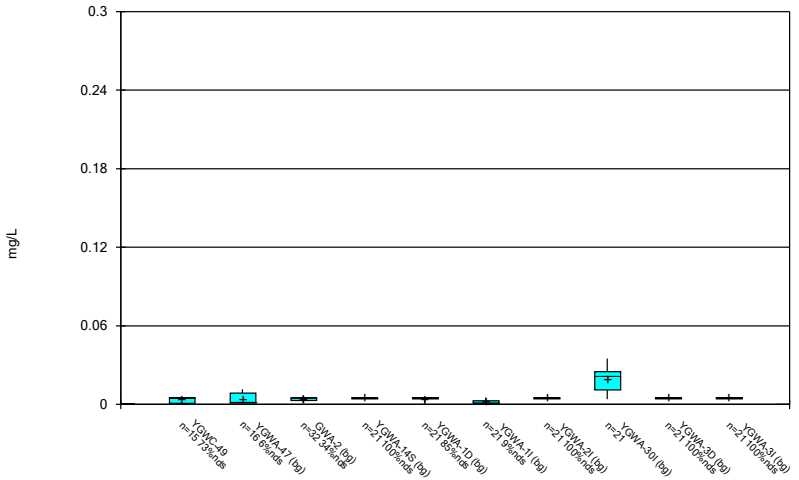
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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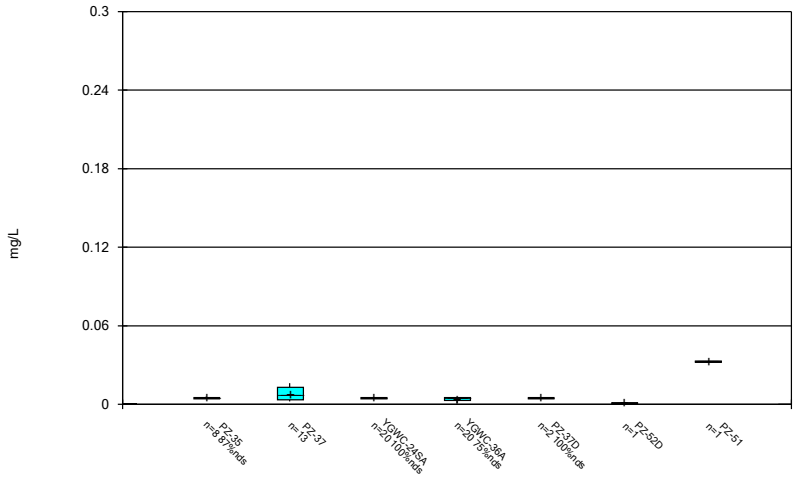
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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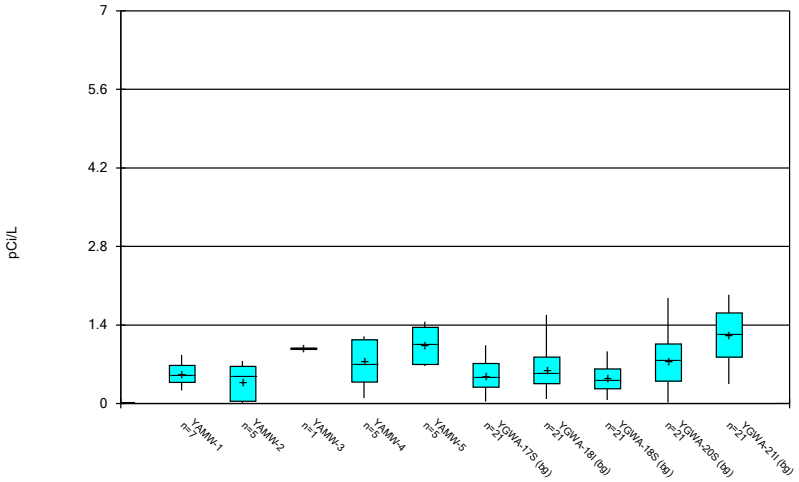
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

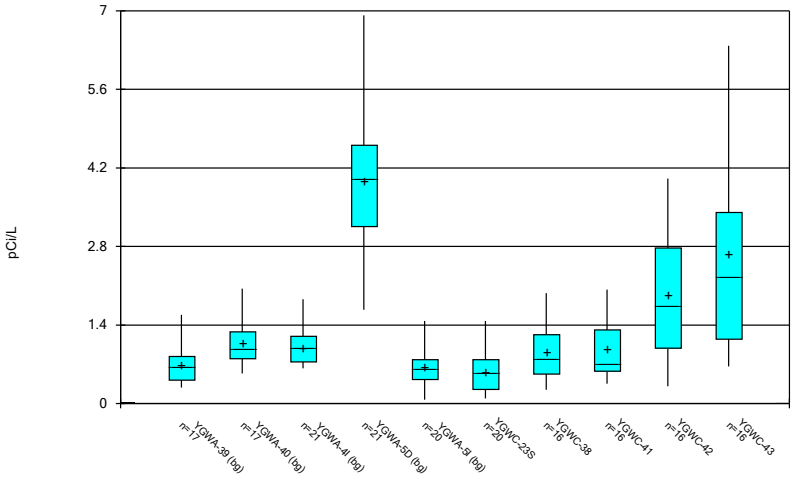


Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

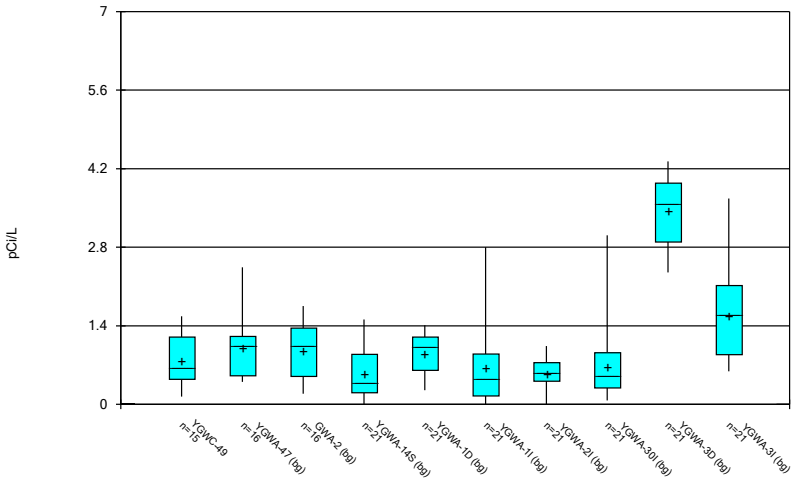


Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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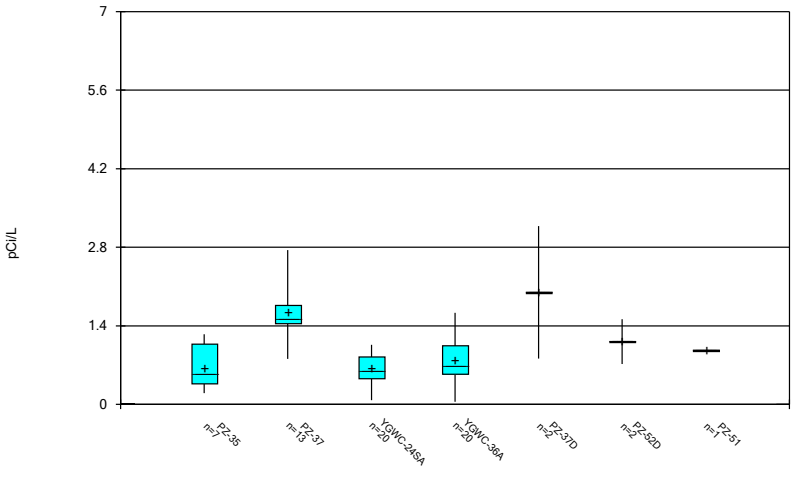
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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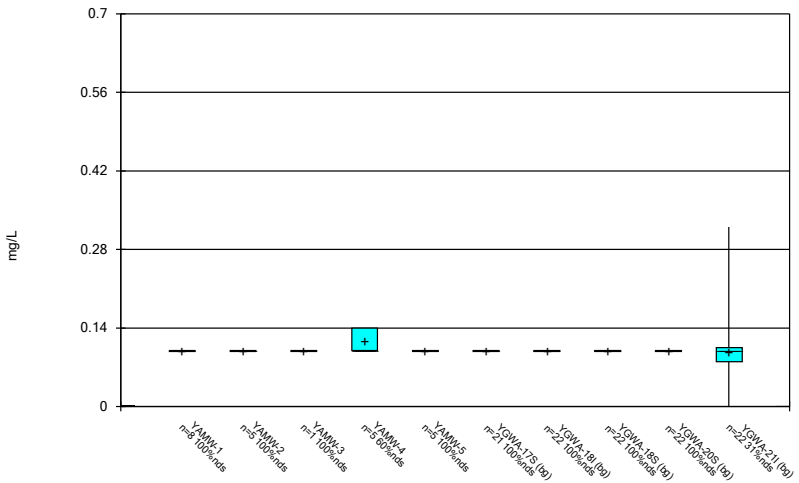
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

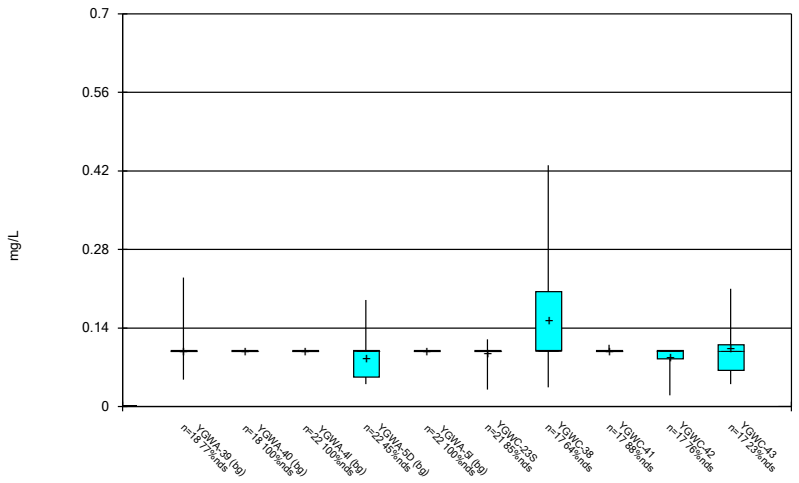


Constituent: Fluoride Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

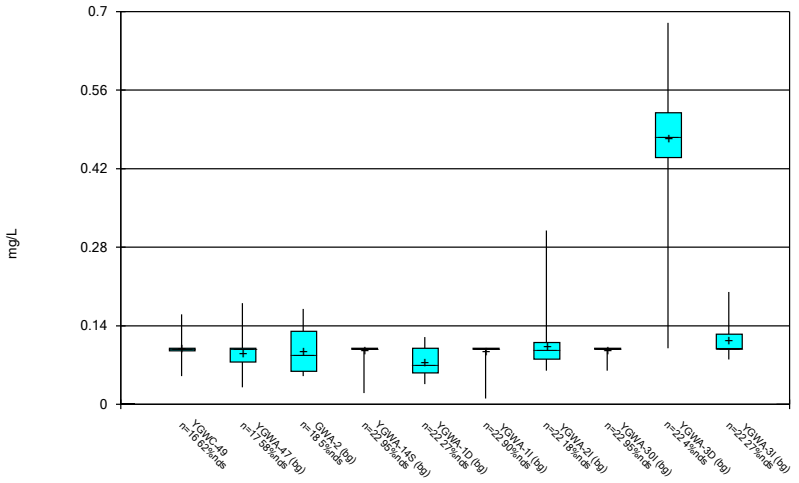


Constituent: Fluoride Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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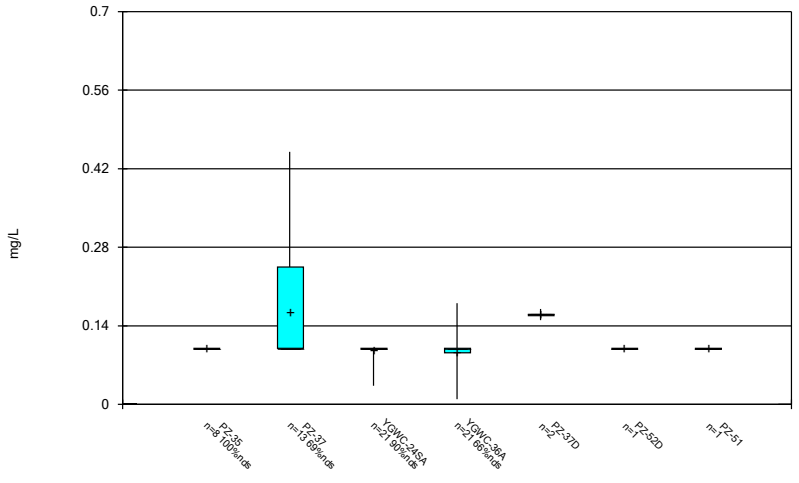
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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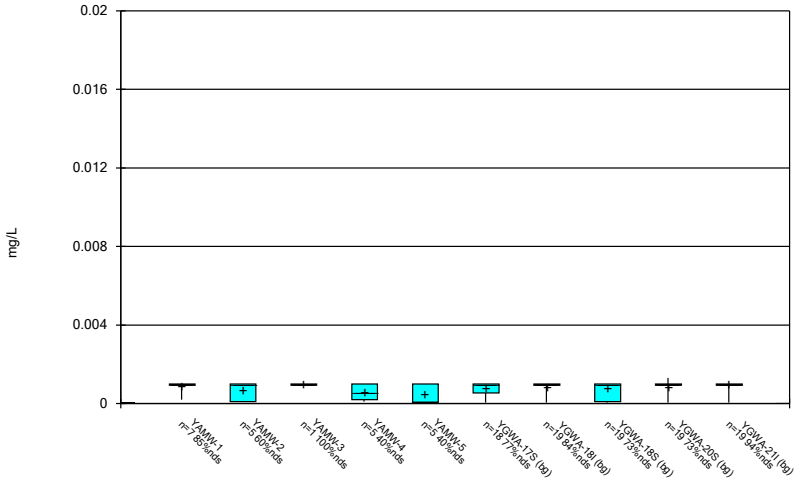
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

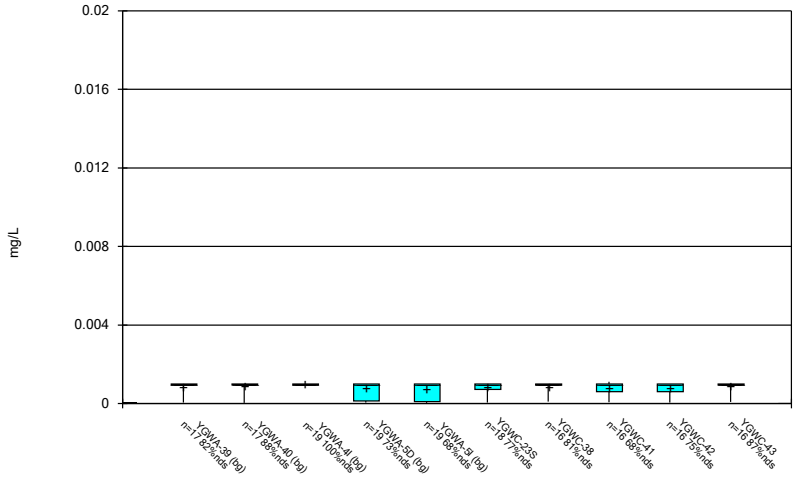


Constituent: Lead Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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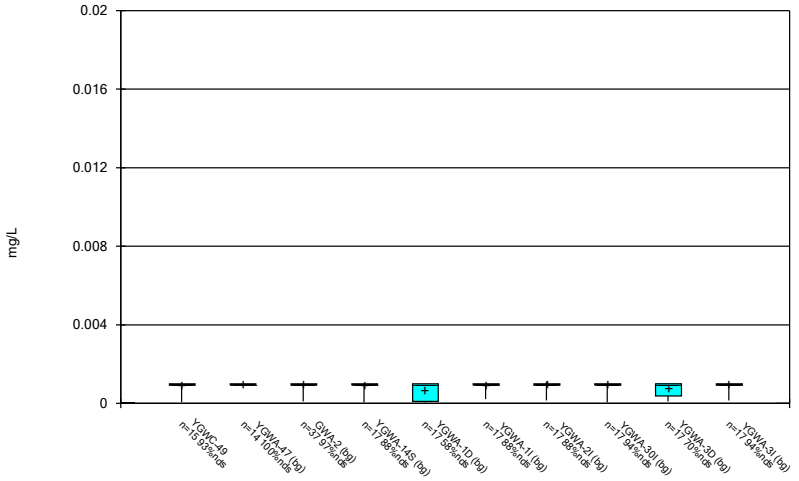
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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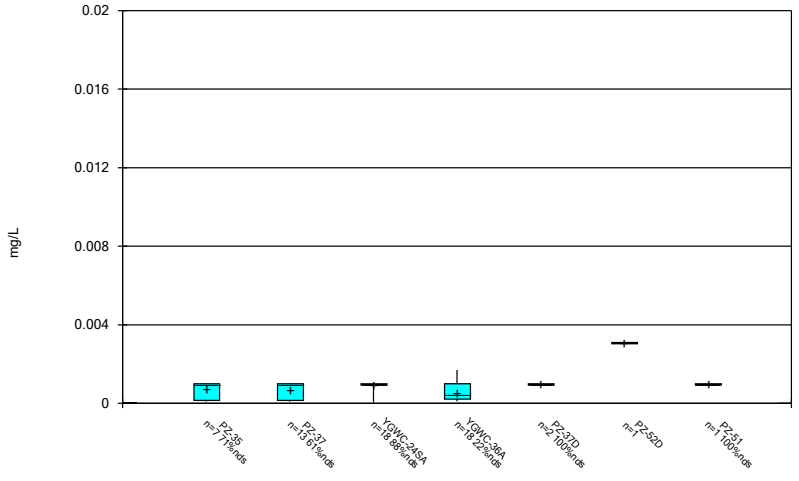
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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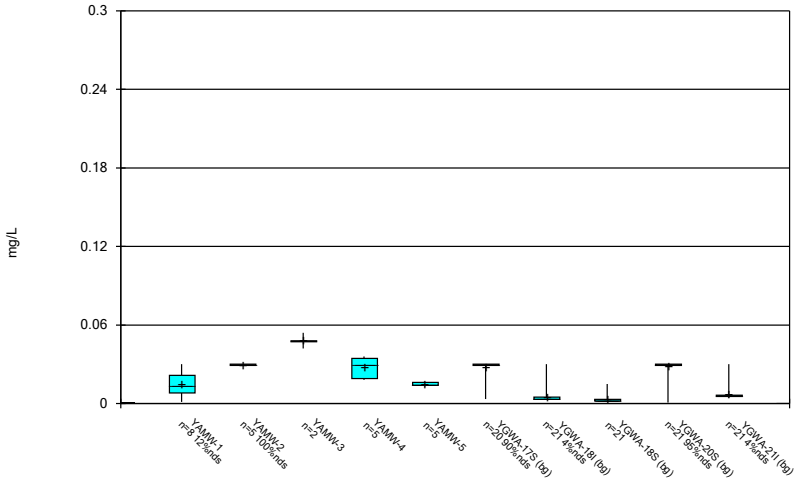
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

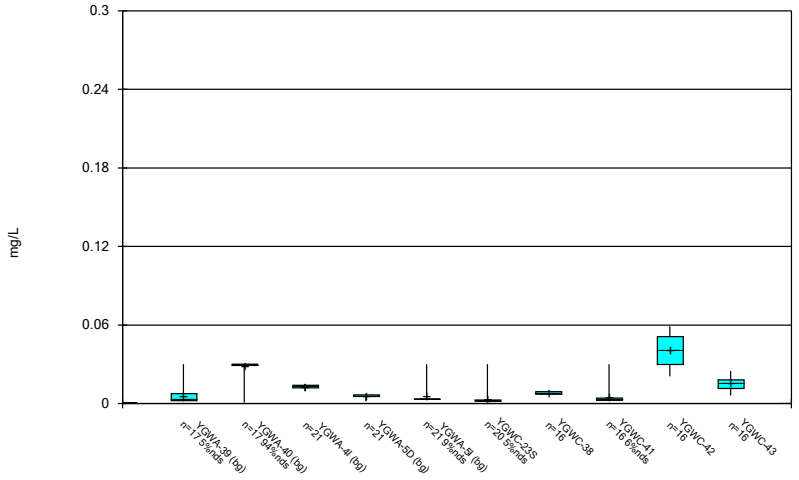


Constituent: Lithium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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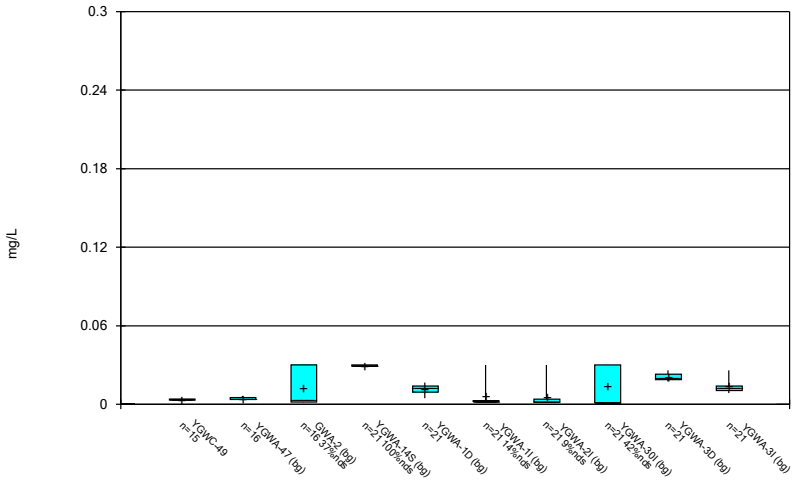
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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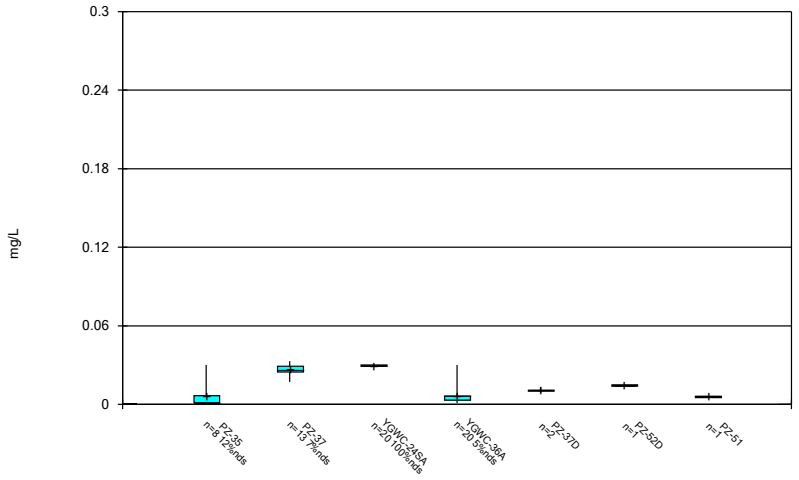

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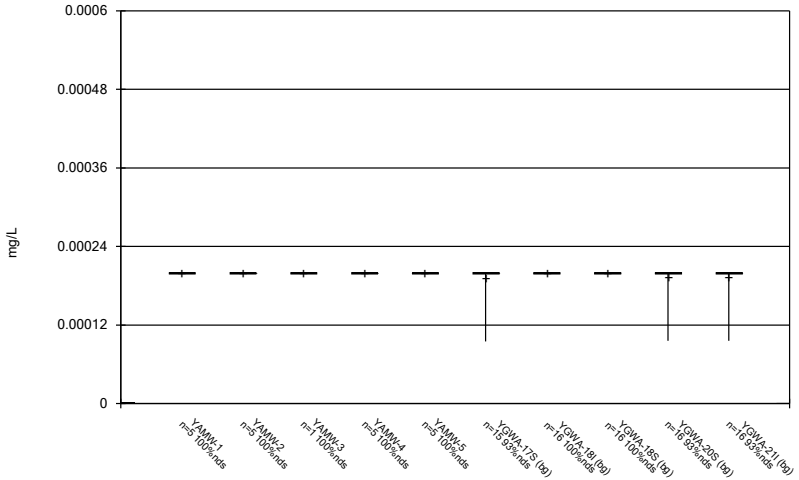
Box & Whiskers Plot

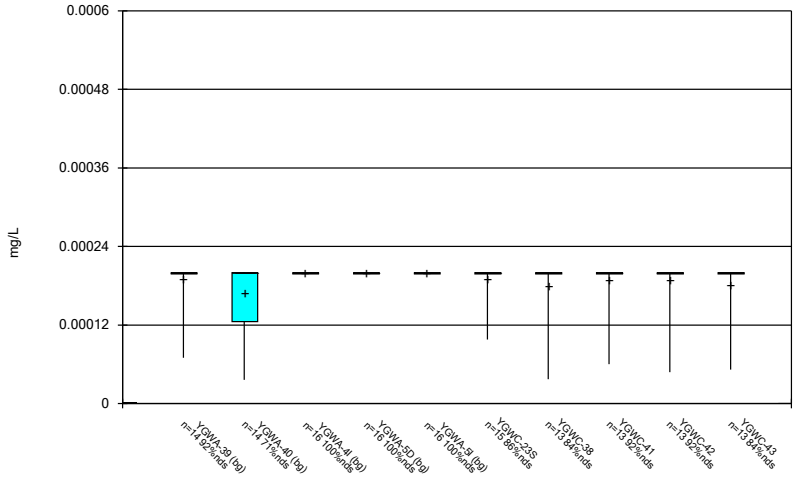


Constituent: Mercury Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

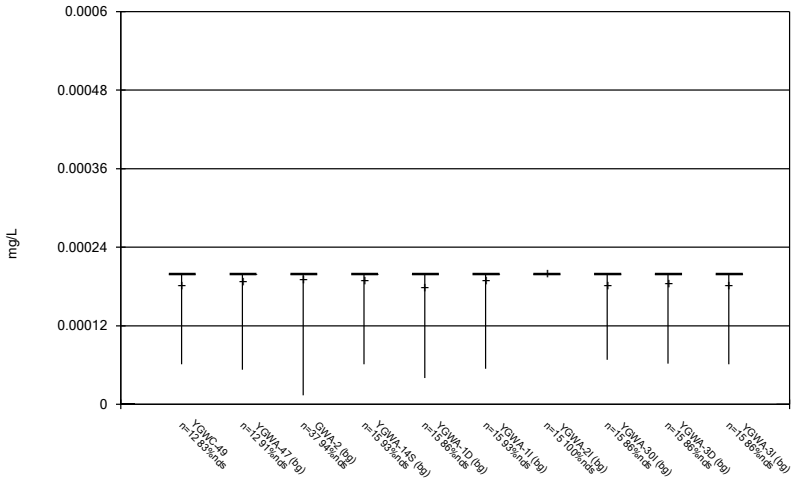


Constituent: Mercury Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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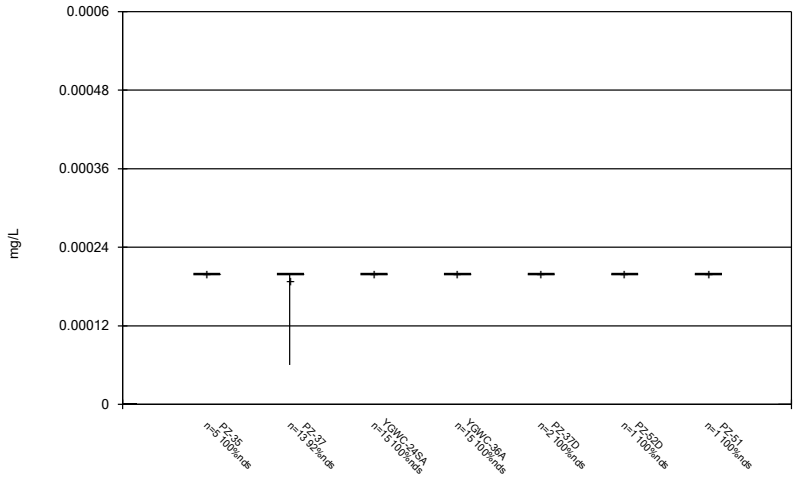
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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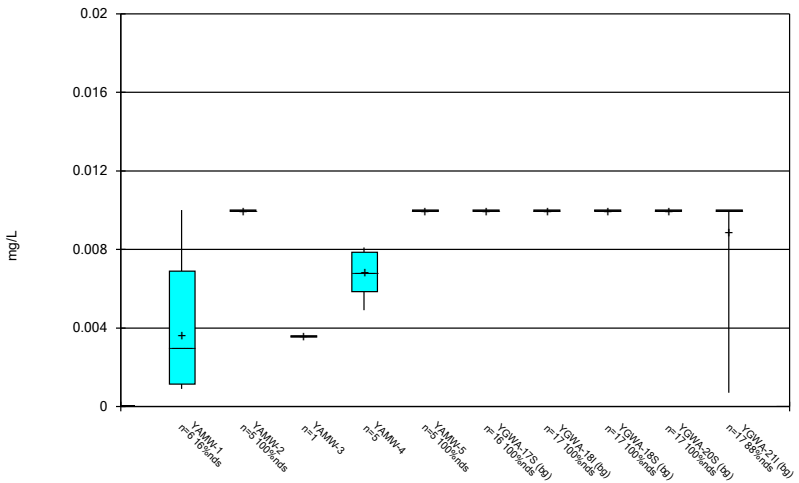
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

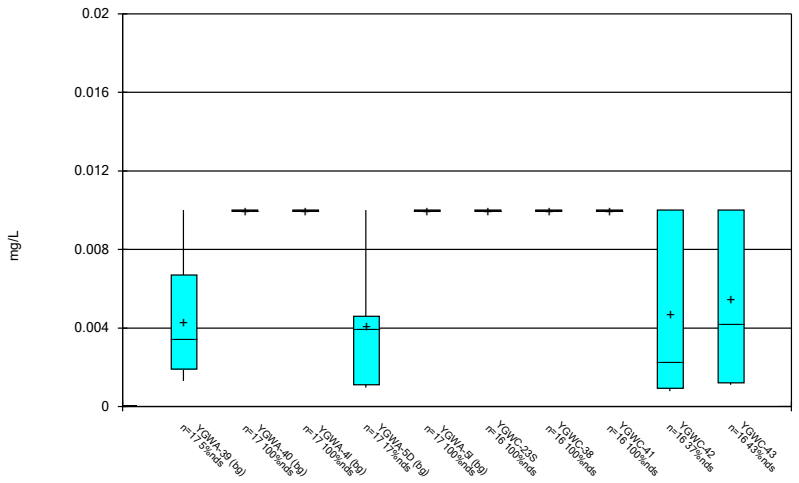


Constituent: Molybdenum Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

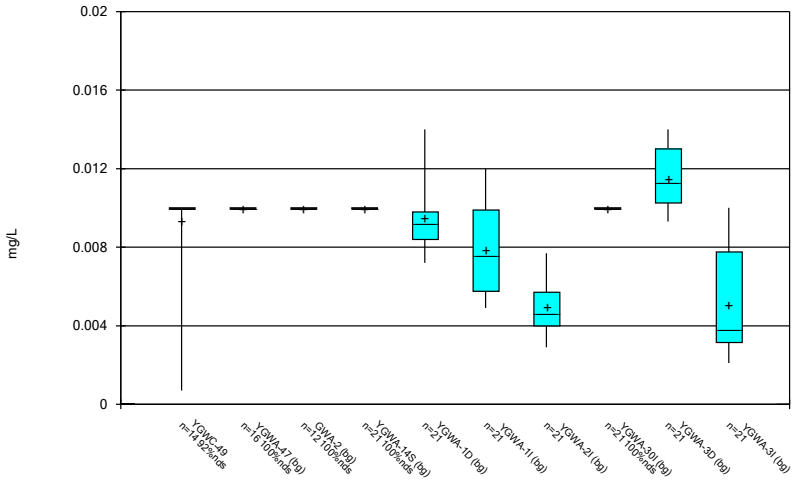


Constituent: Molybdenum Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

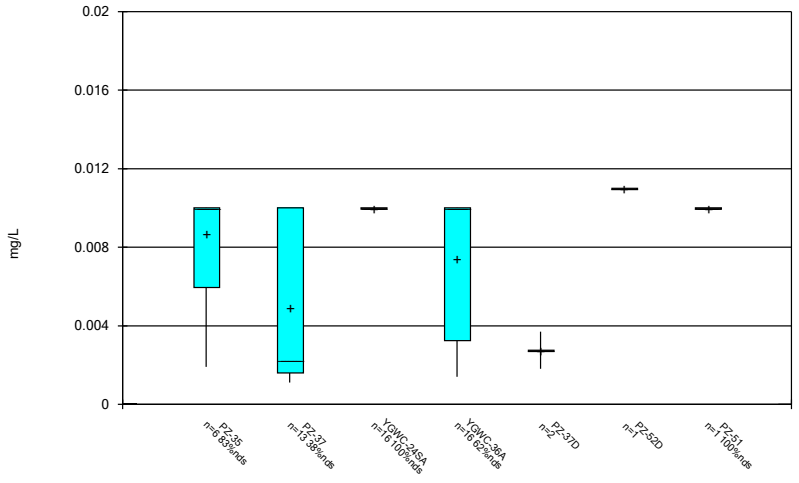


Constituent: Molybdenum Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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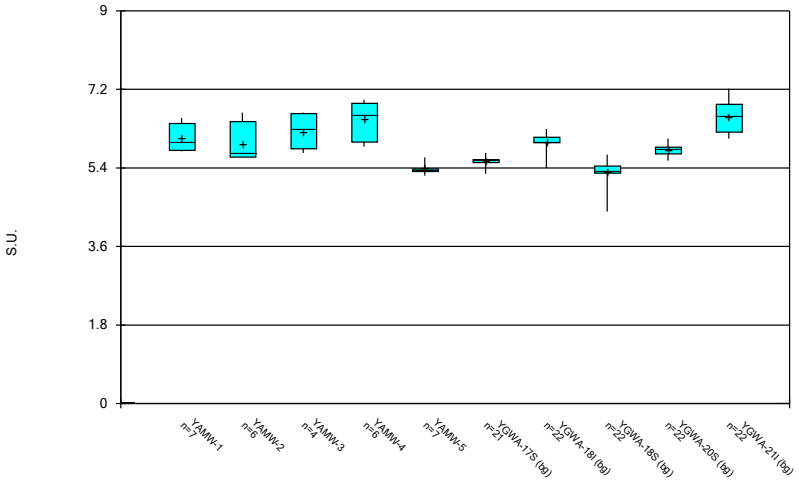
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

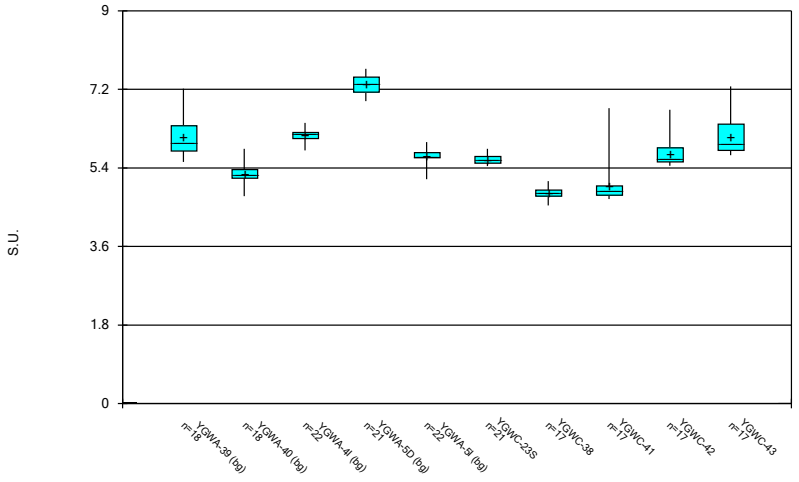


Constituent: pH Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: pH Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

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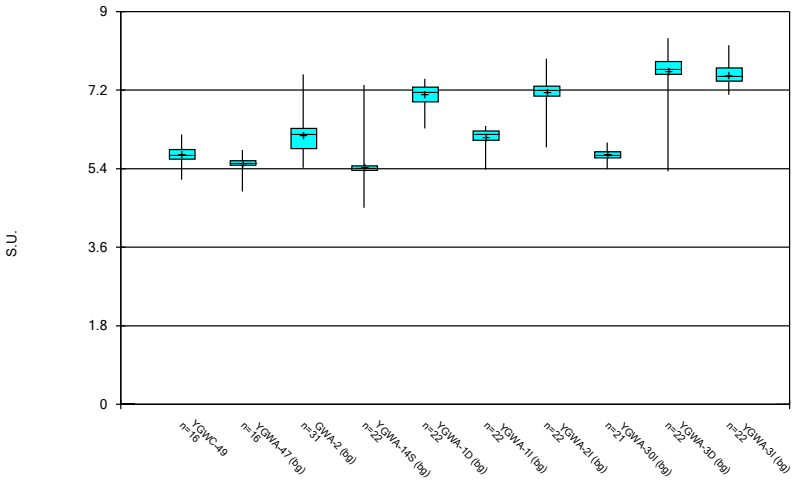

Constituent: pH Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

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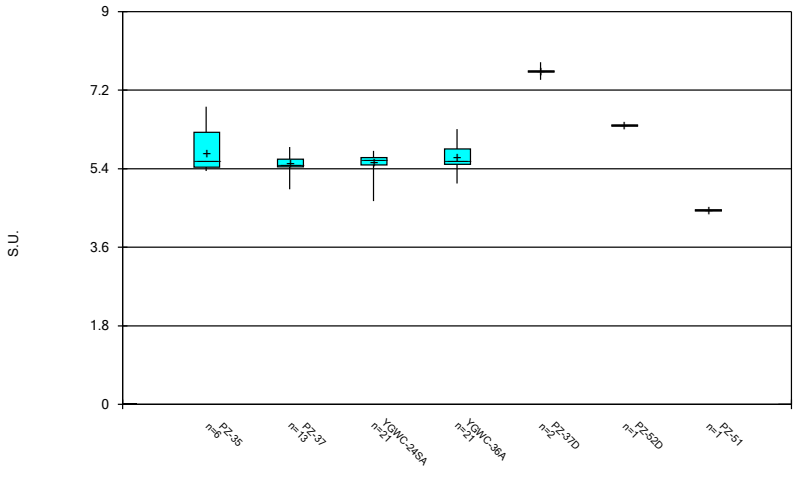

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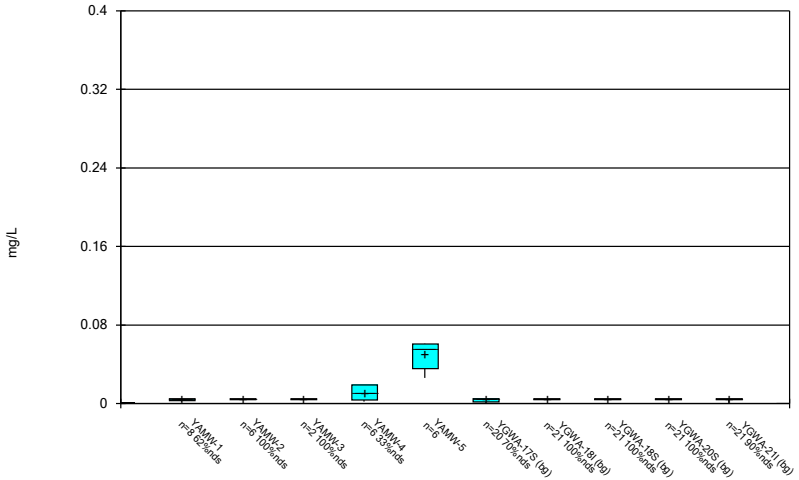
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

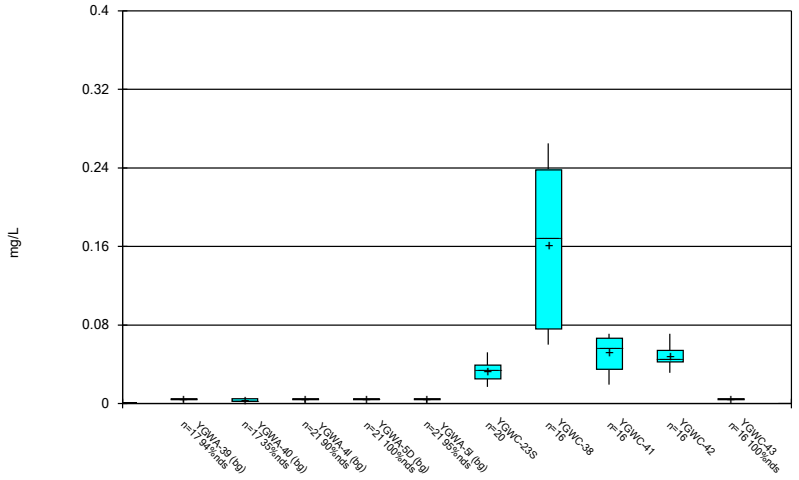


Constituent: Selenium Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

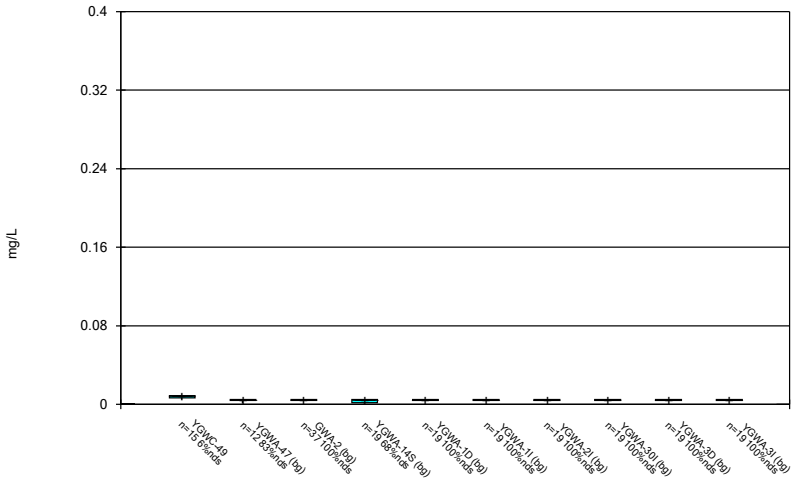


Constituent: Selenium Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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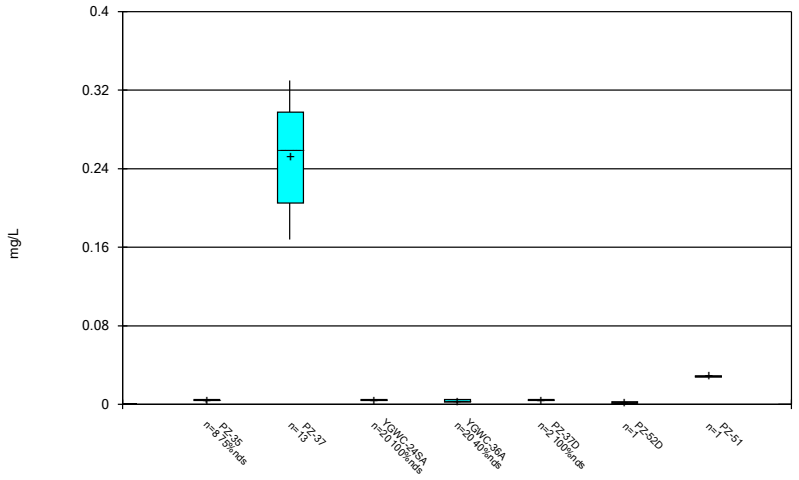
Box & Whiskers Plot



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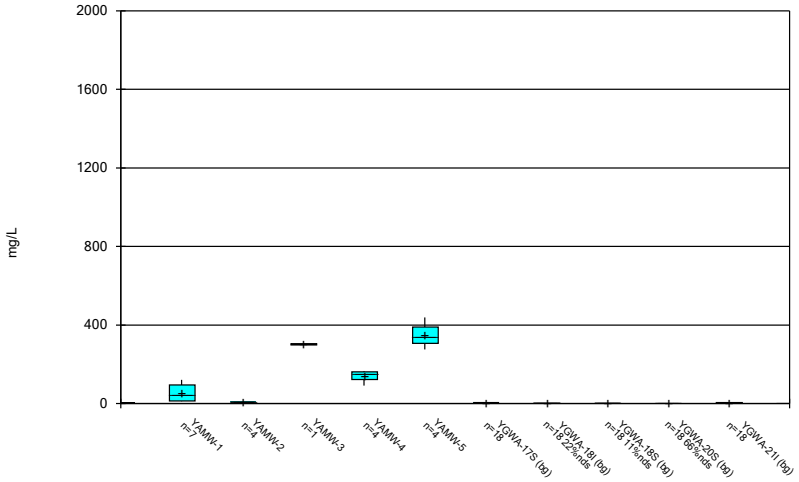
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

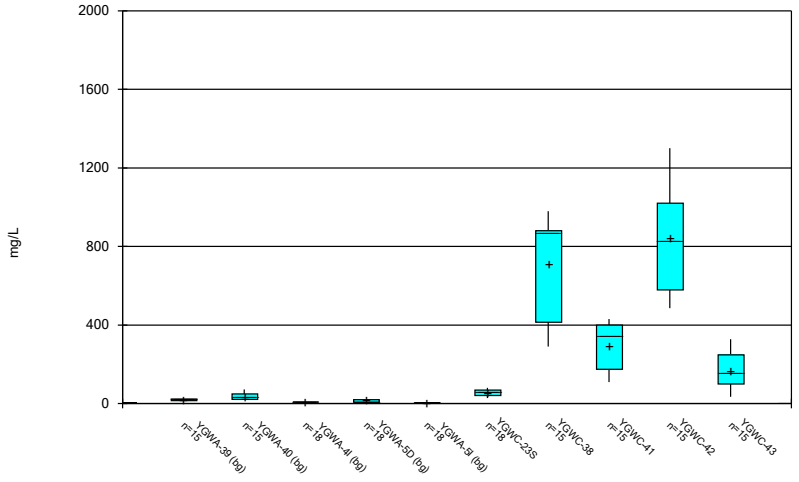


Constituent: Sulfate Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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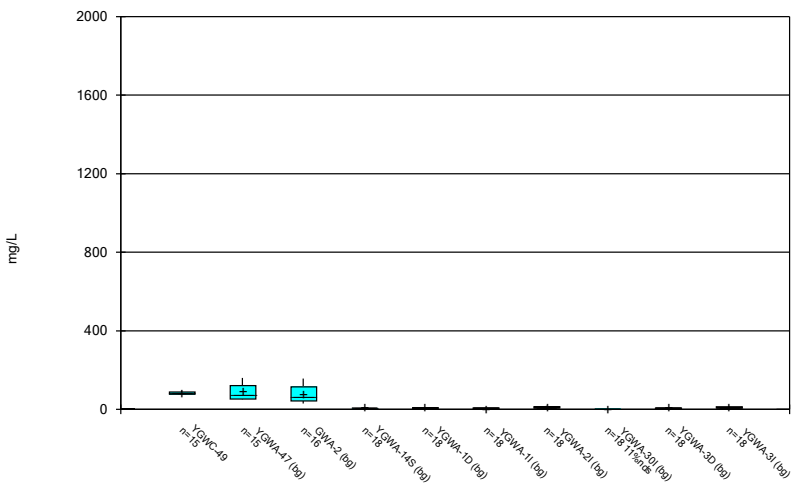
Box & Whiskers Plot



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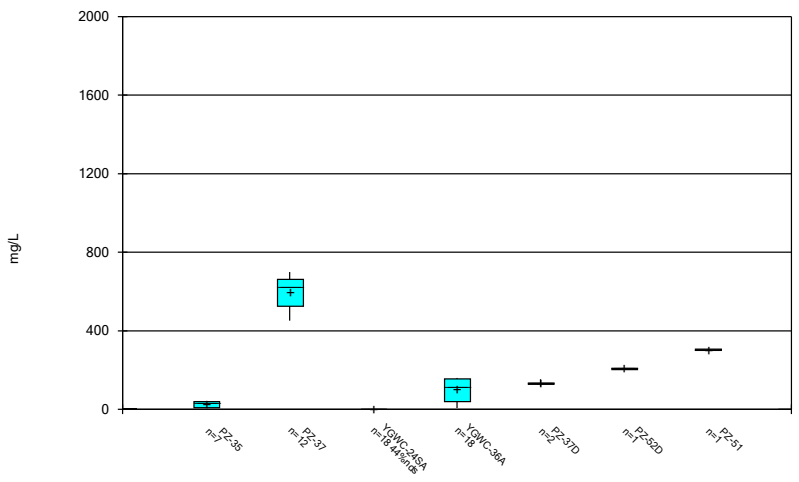
Box & Whiskers Plot



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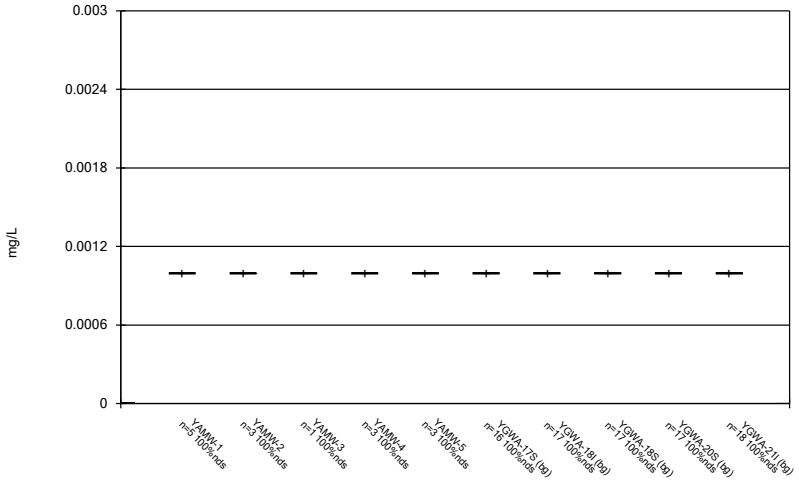
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

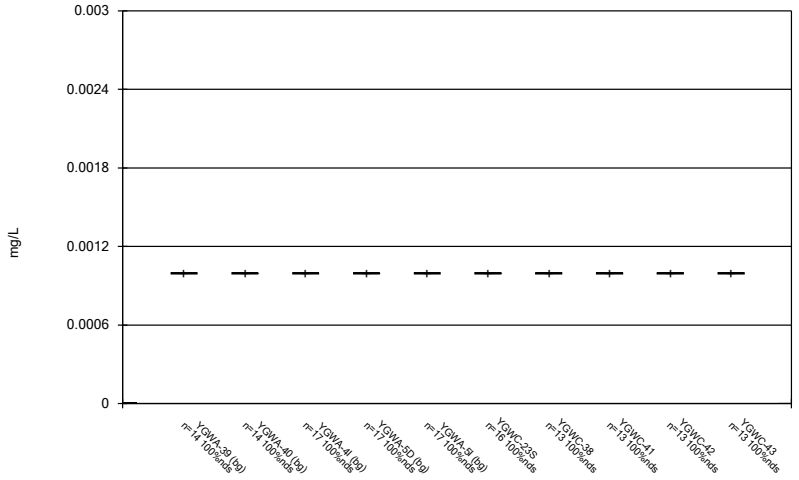


Constituent: Thallium Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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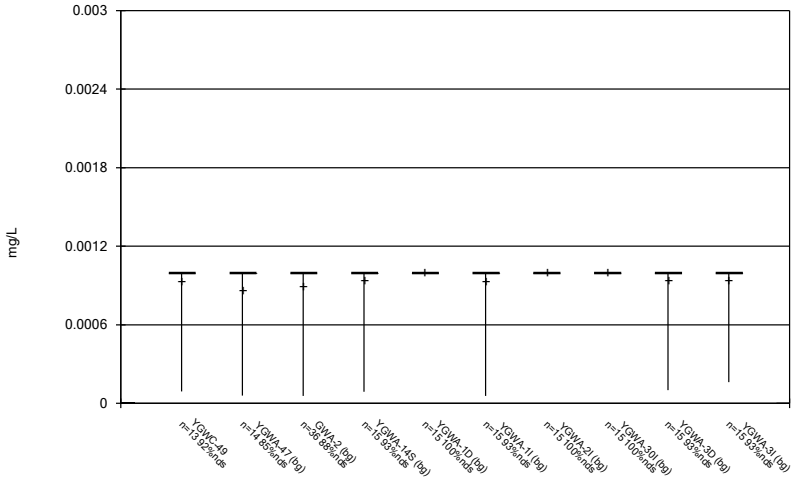
Box & Whiskers Plot

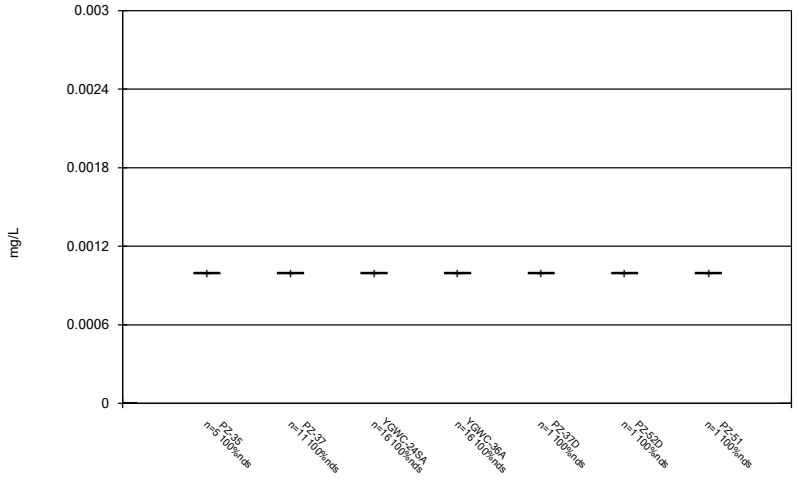


Constituent: Thallium Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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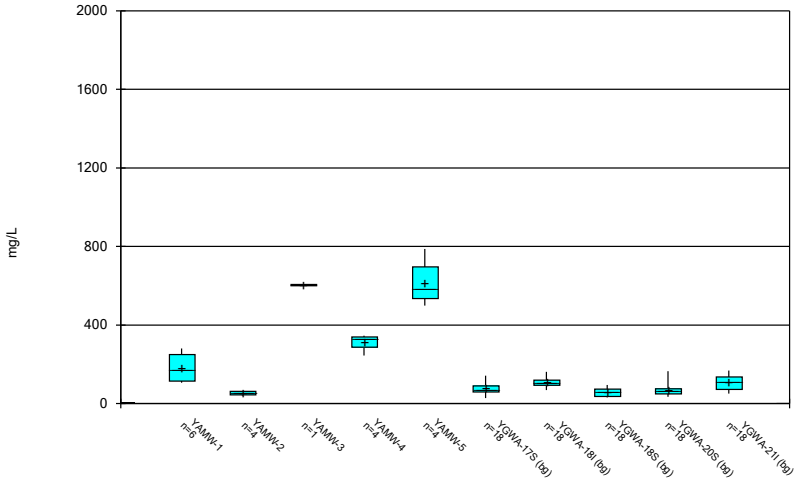
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

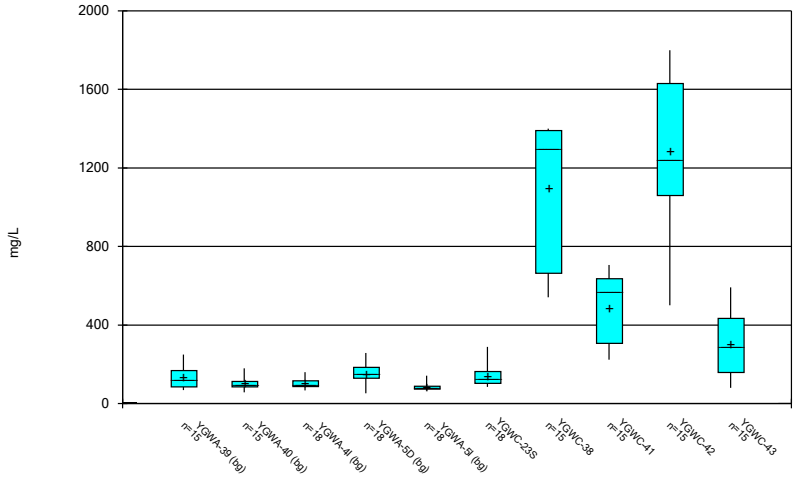
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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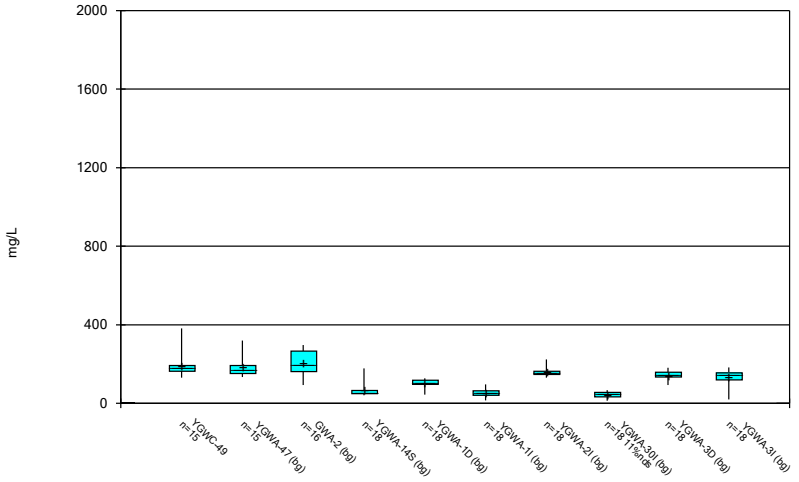
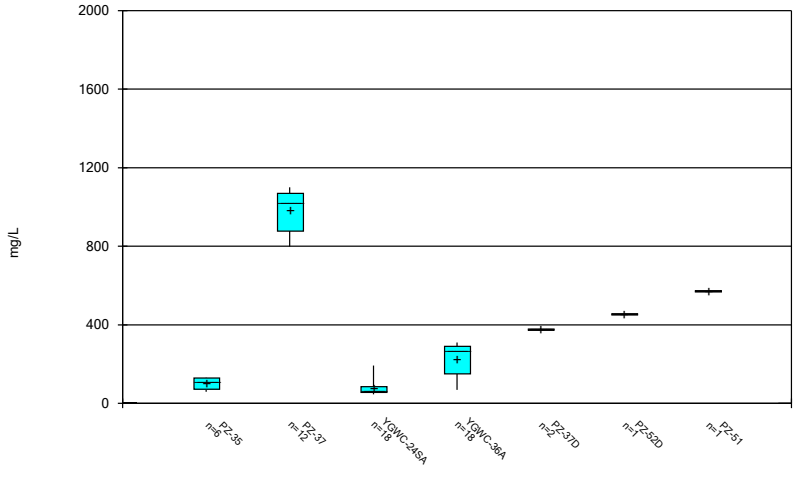
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:24 PM

	GWA-2 Cobalt (mg/L)	YGWA-47 pH (S.U.)
4/2/2018		6.3 (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)	

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-23S	0.16	n/a	2/10/2022	1.5	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	2/10/2022	5.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/8/2022	4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/10/2022	14.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/8/2022	2.3	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/10/2022	68.9	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/10/2022	74.4	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	2/10/2022	290	Yes	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	2/10/2022	485	Yes	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	223.8	n/a	2/10/2022	541	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	223.8	n/a	2/8/2022	226	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	223.8	n/a	2/10/2022	882	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	223.8	n/a	2/8/2022	294	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:48 PM

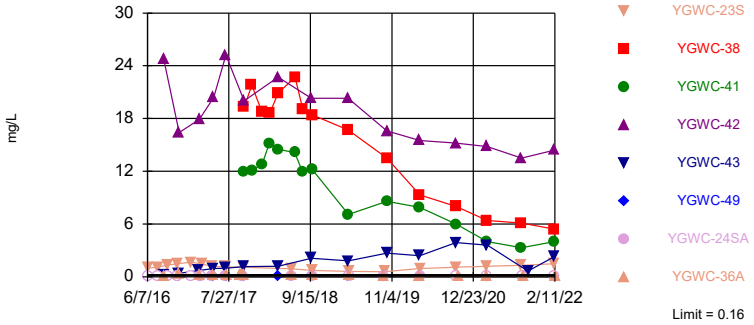
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/10/2022**	**1.5**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/10/2022**	**5.4**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/8/2022**	**4**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/10/2022**	**14.4**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/8/2022**	**2.3**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	2/8/2022	0.04ND	No	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SA	0.16	n/a	2/10/2022	0.04ND	No	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/11/2022	0.019J	No	331	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/10/2022	11.8	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/10/2022**	**68.9**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	2/8/2022	15	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/10/2022**	**74.4**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	2/8/2022	9.9	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/8/2022	12.7	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SA	37	n/a	2/10/2022	2.2	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/11/2022	4.6	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	10.9	n/a	2/10/2022	1.9	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	10.9	n/a	2/10/2022	4	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	10.9	n/a	2/8/2022	3.5	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	10.9	n/a	2/10/2022	3.3	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	10.9	n/a	2/8/2022	2.1	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	10.9	n/a	2/8/2022	4.2	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	10.9	n/a	2/10/2022	8.7	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	10.9	n/a	2/11/2022	6.6	No	331	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/8/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/8/2022	0.066J	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/8/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SA	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	2/11/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	2/10/2022	5.51	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.4	2/10/2022	4.85	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	2/8/2022	5.07	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	2/10/2022	5.57	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	2/8/2022	5.82	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/8/2022	5.79	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SA	8.39	4.4	2/10/2022	4.66	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	2/11/2022	5.58	No	410	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/10/2022	78.7	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**2/10/2022**	**290**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-41	160	n/a	2/8/2022	109	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/10/2022**	**485**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-43	160	n/a	2/8/2022	133	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	2/8/2022	73.9	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SA	160	n/a	2/10/2022	0.5ND	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/11/2022	16.4	No	331	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	223.8	n/a	2/10/2022	180	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-38**	**223.8**	**n/a**	**2/10/2022**	**541**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-41**	**223.8**	**n/a**	**2/8/2022**	**226**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**223.8**	**n/a**	**2/10/2022**	**882**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**223.8**	**n/a**	**2/8/2022**	**294**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-49	223.8	n/a	2/8/2022	164	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SA	223.8	n/a	2/10/2022	78	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	223.8	n/a	2/11/2022	81	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43

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 331 background values. 48.04% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

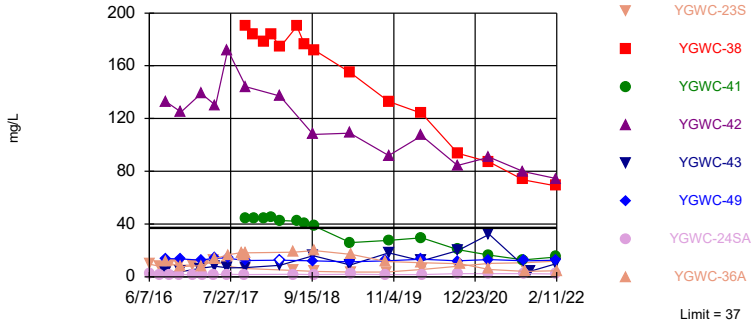
Constituent: Boron Analysis Run 3/28/2022 5:46 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-42

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 331 background values. 0.9063% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

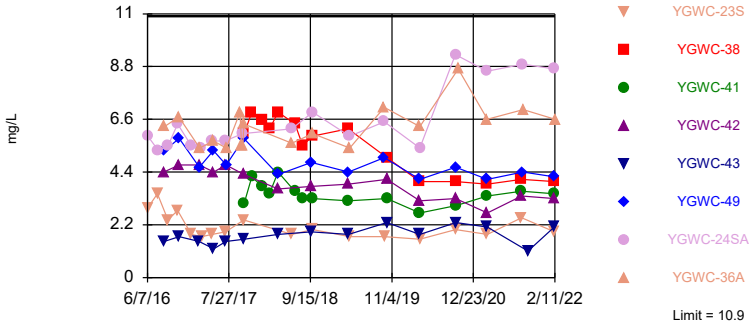
Constituent: Calcium Analysis Run 3/28/2022 5:46 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Within Limit

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 331 background values. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

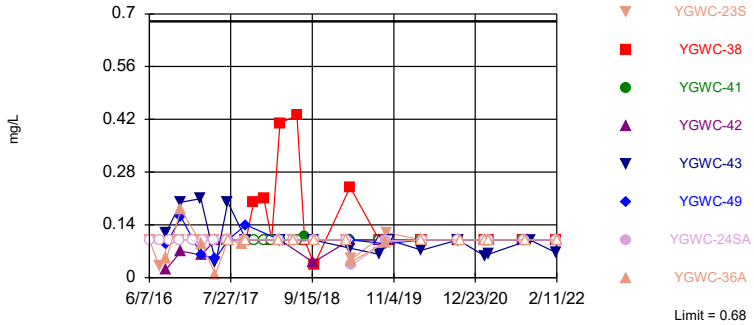
Constituent: Chloride Analysis Run 3/28/2022 5:46 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 400 background values. 67.5% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

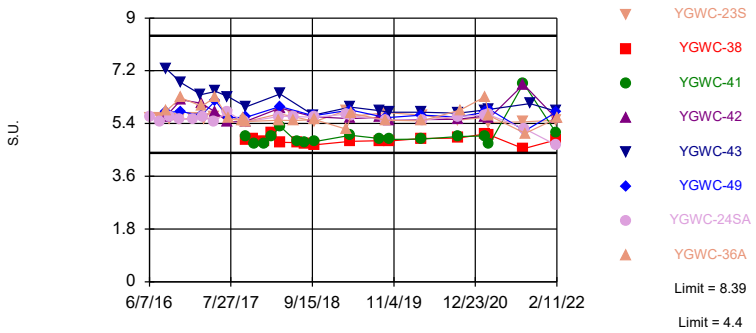
Constituent: Fluoride Analysis Run 3/28/2022 5:46 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 410 background values. Annual per-constituent alpha = 0.001573. Individual comparison alpha = 0.00009834 (1 of 2). Comparing 8 points to limit.

Constituent: pH Analysis Run 3/28/2022 5:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

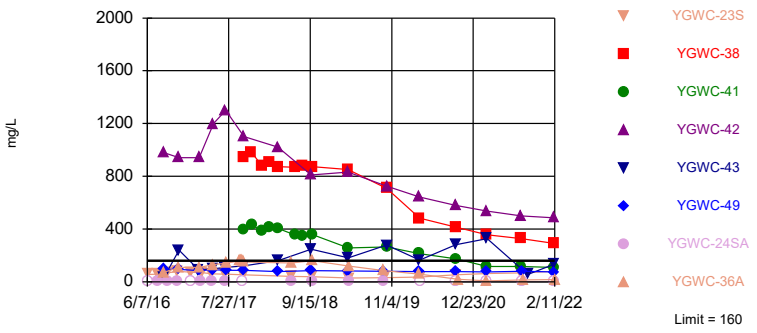
Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-42

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 331 background values. 6.042% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Sulfate Analysis Run 3/28/2022 5:46 PM View: Appendix III

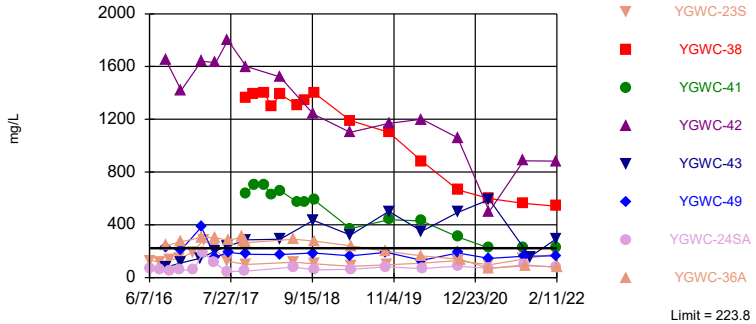
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-38, YGWC-41, YGWC-42, YGWC-43

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.06, Std. Dev.=2.585, n=331, 0.6042% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 13.86, critical = 14.07. Kappa = 1.894 (c=7, w=8, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0009403. Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	<0.04	<0.04				<0.04			
7/26/2016			0.0055 (J)	0.0052 (J)	0.0097 (J)		0.0047 (J)	0.0177 (J)	<0.04
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04			0.0071 (J)			<0.04		0.01 (J)
9/15/2016					0.0102 (J)			0.0214 (J)	
9/16/2016									
9/19/2016						<0.04			
9/20/2016									
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
11/8/2016									
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			
1/17/2017									
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)	
3/9/2017									
4/26/2017	<0.04				<0.04	<0.04		0.0161 (J)	
4/27/2017		<0.04	0.0066 (J)						
4/28/2017									
5/1/2017				0.0061 (J)			<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2/2017									<0.04
5/8/2017									
5/9/2017									
5/10/2017									
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		
6/30/2017						<0.04		0.0173 (J)	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
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)	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.0052 (J)						
6/6/2018		<0.04		0.0098 (J)					
6/7/2018					0.004 (J)		0.0045 (J)		<0.04
6/8/2018	<0.04							0.013 (J)	
6/11/2018						0.014 (J)			
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.01 (J)			0.005 (J)		0.0057 (J)
9/27/2018									
10/1/2018	<0.04	0.0049 (J)	0.021 (J)		<0.04			0.015 (J)	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
10/2/2018						<0.04			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.04	0.005 (J)						
3/29/2019								0.014 (J)	
4/1/2019	<0.04				<0.04	<0.04			
4/2/2019									
4/3/2019				0.0076 (J)			0.0055 (J)		0.0044 (J)
4/4/2019									
6/12/2019									
9/24/2019		0.0055 (J)	0.0064 (J)	0.01 (J)					0.0049 (J)
9/25/2019	<0.04				0.0054 (J)	<0.04	<0.04	0.018 (J)	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		0.0087 (J)						0.02 (J)	
3/19/2020	0.0053 (J)		0.0085 (J)		0.0073 (J)	0.0052 (J)			
3/24/2020				0.011 (J)					0.0068 (J)
3/25/2020							0.011 (J)		
3/26/2020									
9/22/2020				0.0079 (J)			<0.04		0.0053 (J)
9/23/2020	0.0073 (J)	<0.04	<0.04		0.012 (J)				
9/24/2020						0.0075 (J)			
9/25/2020								0.02 (J)	
10/7/2020									
3/1/2021						<0.04			
3/2/2021				0.0068 (J)				0.017 (J)	0.011 (J)
3/3/2021	<0.04	<0.04	<0.04		<0.04		0.0056 (J)		
3/4/2021									
8/19/2021		<0.04	<0.04		<0.04	<0.04		0.018 (J)	
8/20/2021									
8/25/2021									
8/26/2021				0.009 (J)			<0.04		<0.04
8/27/2021	<0.04								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04		0.01 (J)				
2/10/2022				0.011 (J)				0.02 (J)	<0.04
2/11/2022						<0.04	<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04	0.99			
6/8/2016							<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	1.09			
8/1/2016							<0.04		
8/30/2016								0.0166 (J)	24.7
8/31/2016									
9/1/2016									
9/2/2016									
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				
9/20/2016						1.35	<0.04		
11/1/2016									
11/2/2016				<0.04					
11/3/2016	<0.04	0.0082 (J)	0.0077 (J)		<0.04				
11/4/2016									
11/8/2016						1.5	<0.04		
11/14/2016								0.0166 (J)	
11/15/2016									
11/16/2016									16.4
11/28/2016									
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						1.67			
1/17/2017							<0.04		
2/21/2017									
2/22/2017									
2/24/2017								0.0145 (J)	
2/27/2017									17.9
2/28/2017									
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							<0.04		
3/9/2017						1.44			
4/26/2017	<0.04	0.0091 (J)		<0.04	<0.04				
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			<0.04			1.2	0.0099 (J)		
5/8/2017								0.0141 (J)	
5/9/2017									
5/10/2017									20.4
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017									
7/7/2017							0.0076 (J)		
7/10/2017						1.12			
7/11/2017								0.0131 (J)	25.2
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					<0.04				
10/4/2017		0.009 (J)	0.0077 (J)	<0.04					
10/5/2017	<0.04						<0.04		
10/6/2017									
10/10/2017								0.0124 (J)	
10/11/2017						1.09			
10/12/2017									20
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								0.013 (J)	
4/3/2018									
4/4/2018									22.7
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)						
6/12/2018						0.9	0.018 (J)		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								0.012 (J)	
9/20/2018									20.3
9/24/2018									
9/25/2018	0.0046 (J)	0.007 (J)	0.0096 (J)	<0.04	0.0054 (J)				
9/26/2018							0.0055 (J)		
9/27/2018						0.71			
10/1/2018									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								0.013 (J)	20.3
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.0066 (J)		0.011 (J)				
4/3/2019	<0.04	0.0053 (J)		<0.04					
4/4/2019						0.6	<0.04		
6/12/2019									
9/24/2019					0.018 (J)				
9/25/2019			0.0081 (J)	<0.04					
9/26/2019	0.0062 (J)	0.0072 (J)					0.0068 (J)		
9/27/2019						0.58			
10/8/2019								0.012 (J)	
10/9/2019									16.6
3/17/2020								0.023 (J)	
3/18/2020									
3/19/2020									
3/24/2020	0.0054 (J)	0.01 (J)	0.0092 (J)	<0.04	0.016 (J)				
3/25/2020									15.5
3/26/2020						0.94	0.033 (J)		
9/22/2020								0.0076 (J)	
9/23/2020	0.021 (J)	0.006 (J)	0.0066 (J)				<0.04		
9/24/2020				0.0094 (J)	0.013 (J)	1.1			15.2
9/25/2020									
10/7/2020									
3/1/2021								0.013 (J)	
3/2/2021									
3/3/2021	<0.04	0.0094 (J)	0.01 (J)	<0.04			<0.04		
3/4/2021					0.0079 (J)	1.2			14.8
8/19/2021								0.011 (J)	
8/20/2021									
8/25/2021						1.3			13.5
8/26/2021		<0.04							
8/27/2021	<0.04		0.011 (J)	<0.04					
9/1/2021					<0.04		<0.04		
9/3/2021									
9/27/2021									
2/8/2022								0.015 (J)	
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04				
2/10/2022						1.5	<0.04		14.4
2/11/2022									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.169	0.0315 (J)							
9/1/2016			0.0113 (J)						
9/2/2016				0.133					
9/13/2016									
9/14/2016					<0.04				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.04				
11/8/2016									
11/14/2016				0.287					
11/15/2016			0.0074 (J)						
11/16/2016	0.406								
11/28/2016		0.0095 (J)							
12/15/2016					0.0107 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					<0.04				
1/17/2017									
2/21/2017									
2/22/2017		<0.04							
2/24/2017	0.725								
2/27/2017			<0.04						
2/28/2017				0.215					
3/1/2017									
3/2/2017									
3/3/2017					<0.04				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					<0.04				
5/1/2017									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		0.0084 (J)							
5/9/2017			<0.04	0.233					
5/10/2017	0.955								
5/26/2017					<0.04				
6/27/2017									
6/28/2017					<0.04				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	0.994								
7/13/2017			0.0093 (J)	0.262					
7/17/2017		0.0092 (J)							
9/22/2017				0.238					
9/29/2017				0.235					
10/3/2017					<0.04				
10/4/2017									
10/5/2017									
10/6/2017				0.256					
10/10/2017									
10/11/2017			<0.04	0.245		0.0135 (J)			
10/12/2017	1.15						0.0401	19.3	12
10/16/2017		<0.04							
11/20/2017						0.0251 (J)	0.156	21.8	
11/21/2017									12.1
1/10/2018							0.15		
1/11/2018						0.0255 (J)			12.8
1/12/2018								18.7	
2/19/2018		<0.04					0.146		15.2
2/20/2018						<0.04		18.6	
4/2/2018									
4/3/2018						0.033 (J)	0.12	20.9	14.5
4/4/2018	1.2		0.0041 (J)						
6/5/2018									
6/6/2018									
6/7/2018					<0.04				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				0.25					
6/27/2018									14.1
6/28/2018						0.053	0.16	22.7	
8/6/2018		<0.04							
8/7/2018						0.024 (J)	0.12	19.1	11.9
9/19/2018									
9/20/2018	2.1		0.0042 (J)						
9/24/2018						0.028 (J)	0.099	18.4	12.2
9/25/2018									
9/26/2018				0.24					
9/27/2018									
10/1/2018					<0.04				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		<0.04							
3/26/2019							0.096		
3/27/2019						0.017 (J)		16.7	
3/28/2019	1.8		<0.04						7.1
3/29/2019					0.0065 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.22					
6/12/2019		<0.04							
9/24/2019					0.0076 (J)				
9/25/2019									
9/26/2019			<0.04	0.13					
9/27/2019									
10/8/2019		<0.04							
10/9/2019	2.7					0.017 (J)	0.079	13.5	8.6
3/17/2020		0.0051 (J)							
3/18/2020									
3/19/2020					0.0073 (J)				
3/24/2020							0.088 (J)		
3/25/2020	2.4		0.012 (J)	0.11		0.043 (J)		9.3	7.9
3/26/2020									
9/22/2020		0.0079 (J)							
9/23/2020					<0.04				
9/24/2020			0.062 (J)			0.037 (J)	0.087 (J)		
9/25/2020	3.9							8	6
10/7/2020				0.018 (J)					
3/1/2021									
3/2/2021		<0.04							
3/3/2021					<0.04				
3/4/2021	3.6		<0.04	0.0088 (J)		0.033 (J)	0.078	6.4	4
8/19/2021									
8/20/2021		<0.04							
8/25/2021									
8/26/2021						0.095		6.1	3.3
8/27/2021					<0.04				
9/1/2021			<0.04						
9/3/2021				0.012 (J)			0.077		
9/27/2021	0.64								
2/8/2022	2.3	<0.04	<0.04			0.13	0.074		4
2/9/2022					<0.04				
2/10/2022								5.4	
2/11/2022				0.019 (J)					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	21	2.5	12						
6/2/2016				33	28	1.3	8.8	1.3	2.4
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	20.3	2.16				1.17			
7/26/2016			11	32.3	24.5		7.69	1.24	2.12
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		2.21	11.8						
9/14/2016	19.7			31			8.49		2.18
9/15/2016					27			1.17	
9/16/2016									
9/19/2016						1.05			
9/20/2016									
11/1/2016	18.4		11		25.6	1.14			
11/2/2016				30.9			7.83	1.23	
11/3/2016									
11/4/2016		2.67							2.17 (J)
11/8/2016									
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			
1/17/2017									
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	
3/9/2017									
4/26/2017	25.6				30.4	1.03		1.14	
4/27/2017		2.38	11.1						
4/28/2017									
5/1/2017				37			13.4		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2/2017									2.17
5/8/2017									
5/9/2017									
5/10/2017									
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		
6/30/2017						1.13		1.24	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		2.21	14	30.9					2.15
10/4/2017	22.1				29.7	1.09			
10/5/2017							9.29	1.11	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			15.2 (J)						
6/6/2018		2.3		26.2					
6/7/2018					29.1		8.2		2.3
6/8/2018	21.9 (J)							1.1	
6/11/2018						1.1			
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				25.8			9.5 (J)		2.3
9/27/2018									
10/1/2018	19.7	1.8	15.1		26.9			0.99	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
10/2/2018						1.1			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		2.2	13.3 (J)						
3/29/2019								1.1	
4/1/2019	20.4 (J)				30.1	1.3			
4/2/2019									
4/3/2019				24.7 (J)			8.4		2.8
4/4/2019									
6/12/2019									
9/24/2019		2.3	15.8	25.8					2.5
9/25/2019	22.4				29.5	1.1	9.5	1.1	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		2.1						1.1	
3/19/2020	21.9		15		31.5	1.2			
3/24/2020				26.1					2.5
3/25/2020							10.5		
3/26/2020									
9/22/2020				27.2			9.6		2.6
9/23/2020	23.6	1.8	14.1		28.6				
9/24/2020						1.1			
9/25/2020								1.3	
10/7/2020									
3/1/2021						1.2			
3/2/2021				1.6				1.2	2.6
3/3/2021	20.6	1.8	14.1		29.8		7.7		
3/4/2021									
8/19/2021		2	14.2		28.1	1.2		1.2	
8/20/2021									
8/25/2021									
8/26/2021				25.2			7.6		2.5
8/27/2021	24.7								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	23.7	2.1	14.9		30.3				
2/10/2022				24.8				1.3	2.5
2/11/2022						1.5	7.5		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.2	2.3	3.7	9.6			
6/8/2016							1.9		
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2	2.08					
7/28/2016					3.15	7.87			
8/1/2016							1.83		
8/30/2016								20.9	133
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.5	1.97						
9/19/2016	4.76			1.97	3.17				
9/20/2016						9.28	1.78		
11/1/2016									
11/2/2016				2.13					
11/3/2016	5.25	1.31	1.99		3.4				
11/4/2016									
11/8/2016						8.6	1.77		
11/14/2016								18.6	
11/15/2016									
11/16/2016									125
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	4.74	1.25	2.28						
1/12/2017									
1/13/2017				2.45	4.98				
1/16/2017						8.85			
1/17/2017							1.7		
2/21/2017									
2/22/2017									
2/24/2017								16.1	
2/27/2017									139
2/28/2017									
3/1/2017	5.37	1.26							
3/2/2017			2.15						
3/3/2017									
3/6/2017				2.48	6.28				
3/7/2017									
3/8/2017							1.77		
3/9/2017						8.4			
4/26/2017	4.28	1.05		2.3	6.65				
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			1.95			12.9	1.57		
5/8/2017								14.6	
5/9/2017									
5/10/2017									130
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							
6/29/2017			2.02	2.54	6.04				
6/30/2017									
7/7/2017							1.8		
7/10/2017						8.09			
7/11/2017								14.3	172
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					8.28				
10/4/2017		1.1	2.03	2.25					
10/5/2017	5.28						1.7		
10/6/2017									
10/10/2017								12.1	
10/11/2017						6.36			
10/12/2017									144
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								<25	
4/3/2018									
4/4/2018									137
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						
6/12/2018						4.7	1.8		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								11.1 (J)	
9/20/2018									108
9/24/2018									
9/25/2018	4.6	1	2.1	2.3	10.4 (J)				
9/26/2018							1.7		
9/27/2018						4.1			
10/1/2018									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								10.8 (J)	109
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			2.5		8.8				
4/3/2019	5.3	1.2		2.9					
4/4/2019						3.7	1.9		
6/12/2019									
9/24/2019					7.7				
9/25/2019			2.6	2.4					
9/26/2019	4.9	1.1					1.7		
9/27/2019						3.7			
10/8/2019								9.7	
10/9/2019									92
3/17/2020								14.8	
3/18/2020									
3/19/2020									
3/24/2020	5.3	1	2.7	2.6	6				
3/25/2020									107
3/26/2020						5.6	1.7		
9/22/2020								10.1	
9/23/2020	5.2	0.91 (J)	2.6				2.4		
9/24/2020				2.6	7.8	7.9			84.3
9/25/2020									
10/7/2020									
3/1/2021								10.3	
3/2/2021									
3/3/2021	5.2	0.96 (J)	2.5	2.4			2.4		
3/4/2021					8.7	10.2			90.7
8/19/2021								9.6	
8/20/2021									
8/25/2021						10.6			79.9
8/26/2021		0.98 (J)							
8/27/2021	5.1		2.7	2.4					
9/1/2021					9.5		2.3		
9/3/2021									
9/27/2021									
2/8/2022								9.4	
2/9/2022	5.1	0.87 (J)	2.8	2.3	9.8				
2/10/2022						11.8	2.2		74.4
2/11/2022									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	3.4	9.31							
9/1/2016			13.9						
9/2/2016				11.2					
9/13/2016									
9/14/2016					23.5				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					23.7				
11/8/2016									
11/14/2016				7.79					
11/15/2016			13.5						
11/16/2016	3.79								
11/28/2016		9.47 (B)							
12/15/2016					23.1				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					23.3				
1/17/2017									
2/21/2017									
2/22/2017		10.4							
2/24/2017	6.42								
2/27/2017			12.5						
2/28/2017				8.37					
3/1/2017									
3/2/2017									
3/3/2017					25.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					30.7				
5/1/2017									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		14.2							
5/9/2017			14.4	13.9					
5/10/2017	7.9								
5/26/2017					26.2				
6/27/2017									
6/28/2017					26.1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	6.71								
7/13/2017			14.1	16.6					
7/17/2017		14.1							
9/22/2017				18.4					
9/29/2017				16.1					
10/3/2017					26.7				
10/4/2017									
10/5/2017									
10/6/2017				16.6					
10/10/2017									
10/11/2017			12.4	18.1		2.74			
10/12/2017	7.05						2.9	190	44.5
10/16/2017		13.6							
11/20/2017						1.81	10.4	184	
11/21/2017									44.4
1/10/2018							10.2		
1/11/2018						1.54			43.9
1/12/2018								178	
2/19/2018		<25					<25		45.3
2/20/2018						1.71		184	
4/2/2018									
4/3/2018						1.4	6.3	174	42.7
4/4/2018	8.6		<25						
6/5/2018									
6/6/2018									
6/7/2018					25				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				18.7 (J)					
6/27/2018									42.2
6/28/2018						1.4	6.7	190	
8/6/2018		11.4 (J)							
8/7/2018						1.2	6.3	176	40.7
9/19/2018									
9/20/2018	15.9 (J)		12 (J)						
9/24/2018						1.1	5.7	172	38.5
9/25/2018									
9/26/2018				19.8 (J)					
9/27/2018									
10/1/2018					25				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		12.7 (J)							
3/26/2019							5.6		
3/27/2019						1.5		155	
3/28/2019	8.9		11.3 (J)						26
3/29/2019					23.5 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				16.9 (J)					
6/12/2019		18.9							
9/24/2019					26.4				
9/25/2019									
9/26/2019			12.1	11.7					
9/27/2019									
10/8/2019		28.3							
10/9/2019	18.2					2.4	4.9	133	27.6
3/17/2020		24.3							
3/18/2020									
3/19/2020					27.4				
3/24/2020							4.8		
3/25/2020	12.1		13.2	10.6		2.7		124	29.6
3/26/2020									
9/22/2020		31							
9/23/2020					26.3				
9/24/2020			12			3.7	4.4		
9/25/2020	19.8							93.7	20.5
10/7/2020				9.9					
3/1/2021									
3/2/2021		34.2							
3/3/2021					25.6				
3/4/2021	32.2		13	5.6		8.2	4.6	87	16.4
8/19/2021									
8/20/2021		26.5							
8/25/2021									
8/26/2021						14.1		73.6	12.8
8/27/2021					22.6				
9/1/2021			12.1						
9/3/2021				4.1			5.6		
9/27/2021	4.1								
2/8/2022	9.9	25.6	12.7			15.2	6		15
2/9/2022					23.4				
2/10/2022								68.9	
2/11/2022				4.6					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				7.2	1.4	1.9	3.7	4.1	4.3
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	1.3	1.4				1.7			
7/26/2016			1.2	6.6	1.6		3.6	4	4.4
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		1.3	1.1						
9/14/2016	1.3			6.6			3.4		3.8
9/15/2016					1.5			4.2	
9/16/2016									
9/19/2016						1.6			
9/20/2016									
11/1/2016	1.4		1.3		1.7	1.8			
11/2/2016				7.6			4.5	4.9	
11/3/2016									
11/4/2016		1.6							4.8
11/8/2016									
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			
1/17/2017									
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	
3/9/2017									
4/26/2017	1.1				1.2	1.7		4.1	
4/27/2017		1.3	1						
4/28/2017									
5/1/2017				7.2			4.3		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2/2017									4.6
5/8/2017									
5/9/2017									
5/10/2017									
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		
6/30/2017						1.8		3.7	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		1.7	1.1	6.5					4.2
10/4/2017	1.2				1.5	1.8			
10/5/2017							4.7	3.8	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			1.1						
6/6/2018		1.4		4.7					
6/7/2018					1.2		4.4		4.5
6/8/2018	1.2							3.4	
6/11/2018						2			
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				4.8			4.8		5.1
9/27/2018									
10/1/2018	1.2	1.4	1.1		1.5			3.8	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
10/2/2018						1.8			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		1.5	1.4						
3/29/2019								4.2	
4/1/2019	1.1				1.2	1.7			
4/2/2019									
4/3/2019				4			4.3		4.2
4/4/2019									
6/12/2019									
9/24/2019		1.3	1.1	3.7					4.5
9/25/2019	1.1				1.1	1.6	4.5	4.8	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		1.4						5.2	
3/19/2020	1.1		1.1		1.2	1.8			
3/24/2020				3.5					4.3
3/25/2020							3.9		
3/26/2020									
9/22/2020				3.6			4.5		4.2
9/23/2020	1	1.2	0.99 (J)		1.1				
9/24/2020						1.5			
9/25/2020								5.3	
10/7/2020									
3/1/2021						1.6			
3/2/2021				3.2				4.9	4.3
3/3/2021	0.99 (J)	1.2	0.96 (J)		1.1		4.1		
3/4/2021									
8/19/2021		1.3	1.1		1.1	1.6		5	
8/20/2021									
8/25/2021									
8/26/2021				3.4			4.4		4.3
8/27/2021	1.1								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	1.1	1.3	1		1.1				
2/10/2022				3.2				4.7	4.4
2/11/2022						2.1	4.1		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			4.5	1.9	2.8	2.9			
6/8/2016							5.9		
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2	4.5	1.9					
7/28/2016					2.6	3.5			
8/1/2016							5.3		
8/30/2016								5.2	4.4
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1	4.5						
9/19/2016	7			1.9	2.4				
9/20/2016						2.4	5.5		
11/1/2016									
11/2/2016				2.6					
11/3/2016	7.5	7.4	5.4		2.9				
11/4/2016									
11/8/2016						2.8	6.4		
11/14/2016								6.4	
11/15/2016									
11/16/2016									4.7
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.5	6.1	4.7						
1/12/2017									
1/13/2017				2.3	2.5				
1/16/2017						1.8			
1/17/2017							5.5		
2/21/2017									
2/22/2017									
2/24/2017								5.5	
2/27/2017									4.7
2/28/2017									
3/1/2017	6.9	6							
3/2/2017			4.8						
3/3/2017									
3/6/2017				1.9	2.1				
3/7/2017									
3/8/2017							5.4		
3/9/2017						1.7			
4/26/2017	7	6.5		2	2.1				
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			4.6			1.8	5.7		
5/8/2017								5.8	
5/9/2017									
5/10/2017									4.4
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							
6/29/2017			4.5	2.6	2.8				
6/30/2017									
7/7/2017							5.7		
7/10/2017						1.9			
7/11/2017								5.8	4.7
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					2.2				
10/4/2017		6.8	4.7	2.6					
10/5/2017	7						6		
10/6/2017									
10/10/2017								5.9	
10/11/2017						2.4			
10/12/2017									4.3
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								4.8	
4/3/2018									
4/4/2018									3.7
6/5/2018					1.7				
6/6/2018				2.7					
6/7/2018	6.8								
6/8/2018									
6/11/2018		6.8	4.9						
6/12/2018						1.8	6.2		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								4	
9/20/2018									3.8
9/24/2018									
9/25/2018	7.9	7.8	5.6	3.6	2.2				
9/26/2018							6.9		
9/27/2018						2			
10/1/2018									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								4.3	3.9
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			4.8		2.5				
4/3/2019	6.9	6.3		3.1					
4/4/2019						1.7	5.9		
6/12/2019									
9/24/2019					3.1				
9/25/2019			5.7	2.8					
9/26/2019	7	7.1					6.5		
9/27/2019						1.7			
10/8/2019								4.4	
10/9/2019									4.1
3/17/2020								4.1	
3/18/2020									
3/19/2020									
3/24/2020	7	6.8	5	2.7	2.8				
3/25/2020									3.2
3/26/2020						1.6	5.4		
9/22/2020								4.2	
9/23/2020	7.2	7.2	6.6				9.3		
9/24/2020				2.7	2	2			3.3
9/25/2020									
10/7/2020									
3/1/2021								3.7	
3/2/2021									
3/3/2021	7	7.2	7.1	2.7			8.6		
3/4/2021					1.8	1.8			2.7
8/19/2021								3.5	
8/20/2021									
8/25/2021						2.5			3.4
8/26/2021		7.3							
8/27/2021	7.4		8.5	2.8					
9/1/2021					1.8		8.9		
9/3/2021									
9/27/2021									
2/8/2022								3.2	
2/9/2022	7.5	7	10.9	2.8	1.7				
2/10/2022						1.9	8.7		3.3
2/11/2022									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	1.5	4							
9/1/2016			5.3						
9/2/2016				6.3					
9/13/2016									
9/14/2016					1.1				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					1.4				
11/8/2016									
11/14/2016				6.7					
11/15/2016			5.8						
11/16/2016	1.7								
11/28/2016		4.2							
12/15/2016					2.9				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					0.98				
1/17/2017									
2/21/2017									
2/22/2017		3.7							
2/24/2017	1.5								
2/27/2017			4.6						
2/28/2017				5.4					
3/1/2017									
3/2/2017									
3/3/2017					1.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.91				
5/1/2017									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		4.2							
5/9/2017			5.3	5.7					
5/10/2017	1.2								
5/26/2017					0.93				
6/27/2017									
6/28/2017					1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	1.5								
7/13/2017			4.7	5.4					
7/17/2017		3.8							
9/22/2017				6.9					
9/29/2017				5.5					
10/3/2017					1.2				
10/4/2017									
10/5/2017									
10/6/2017				5.5					
10/10/2017									
10/11/2017			5.8	6.4		2.4			
10/12/2017	1.6						3.8	6	3.1
10/16/2017		4.2							
11/20/2017						1.8	4.4	6.9	
11/21/2017									4.2
1/10/2018							4.6		
1/11/2018						1.6			3.8
1/12/2018								6.6	
2/19/2018		4.3					4.6		3.5
2/20/2018						2		6.2	
4/2/2018									
4/3/2018						3.3	5.9	6.9	4.4
4/4/2018	1.8		4.3						
6/5/2018									
6/6/2018									
6/7/2018					1				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.6					
6/27/2018									3.6
6/28/2018						2.1	5	6.4	
8/6/2018		3.8							
8/7/2018						1.2	4.3	5.5	3.3
9/19/2018									
9/20/2018	1.9		4.8						
9/24/2018						1.3	4.9	5.9	3.3
9/25/2018									
9/26/2018				6					
9/27/2018									
10/1/2018					1.1				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		4.1							
3/26/2019							4.4		
3/27/2019						1.4		6.2	
3/28/2019	1.8		4.4						3.2
3/29/2019					1.2				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.4					
6/12/2019		4.7							
9/24/2019					0.95 (J)				
9/25/2019									
9/26/2019			5	7.1					
9/27/2019									
10/8/2019		5.1							
10/9/2019	2.3					2.1	5.1	5	3.3
3/17/2020		4.8							
3/18/2020									
3/19/2020					0.97 (J)				
3/24/2020							4.7		
3/25/2020	1.8		4.1	6.3		1.9		4	2.7
3/26/2020									
9/22/2020		4.2							
9/23/2020					0.88 (J)				
9/24/2020			4.6			2.7	5		
9/25/2020	2.3							4	3
10/7/2020				8.7					
3/1/2021									
3/2/2021		4.1							
3/3/2021					0.86 (J)				
3/4/2021	2.1		4.1	6.6		4.9	4.9	3.9	3.4
8/19/2021									
8/20/2021		5.2							
8/25/2021									
8/26/2021						7.2		4.1	3.6
8/27/2021					0.99 (J)				
9/1/2021			4.4						
9/3/2021				7			5.5		
9/27/2021	1.1								
2/8/2022	2.1	5.7	4.2			7.4	6.2		3.5
2/9/2022					1 (J)				
2/10/2022								4	
2/11/2022				6.6					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	<0.1	0.15 (J)	0.12 (J)						
6/2/2016				<0.1	<0.1	0.62	0.11 (J)	<0.1	<0.1
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	0.06 (J)	0.14 (J)		0.06 (J)					
7/26/2016			0.08 (J)		<0.1	0.49	0.05 (J)	0.02 (J)	<0.1
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016	<0.1		0.11 (J)						
9/14/2016		0.18 (J)			<0.1		0.04 (J)		<0.1
9/15/2016						0.54		<0.1	
9/16/2016									
9/19/2016				<0.1					
9/20/2016									
11/1/2016		<0.1	<0.1	<0.1		0.68			
11/2/2016					<0.1		<0.1	<0.1	
11/3/2016									
11/4/2016	<0.1								<0.1
11/8/2016									
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					
1/17/2017									
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	
3/9/2017									
4/26/2017		0.08 (J)		<0.1		0.48		<0.1	
4/27/2017	0.01 (J)		0.04 (J)						
4/28/2017									
5/1/2017					<0.1		<0.1		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2/2017									<0.1
5/8/2017									
5/9/2017									
5/10/2017									
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				
6/30/2017				<0.1				<0.1	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
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	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
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
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.055 (J)						
6/6/2018	<0.1						0.15 (J)		
6/7/2018					<0.1	0.48			<0.1
6/8/2018		0.2 (J)						<0.1	
6/11/2018				<0.1					
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
9/25/2018									
9/26/2018					<0.1		<0.1		<0.1
9/27/2018									
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	<0.1	0.13 (J)	0.052 (J)			0.53			
3/4/2019					<0.1		0.19 (J)		<0.1
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.1		0.036 (J)						
3/29/2019								<0.1	
4/1/2019		0.1 (J)		<0.1		0.45			
4/2/2019									
4/3/2019					<0.1		0.047 (J)		<0.1
4/4/2019									
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019	<0.1		0.063 (J)				0.05 (J)		<0.1
9/25/2019		0.1 (J)		<0.1	<0.1	0.46		<0.1	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
2/10/2020	<0.1		0.061 (J)						
2/11/2020		0.094 (J)							
2/12/2020				<0.1	<0.1	0.4	<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)	<0.1		0.51			
3/24/2020							<0.1		<0.1
3/25/2020					<0.1				
3/26/2020									
8/26/2020									
8/27/2020									
9/22/2020					<0.1		0.056 (J)		<0.1
9/23/2020	<0.1	0.098 (J)	0.058 (J)			0.47			
9/24/2020				<0.1					
9/25/2020								<0.1	
10/7/2020									
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	<0.1		0.068 (J)						
3/1/2021				<0.1					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
3/2/2021							<0.1	<0.1	<0.1
3/3/2021	<0.1	0.1	0.078 (J)		<0.1	0.44			
3/4/2021									
8/19/2021	<0.1		0.074 (J)	<0.1		0.47		<0.1	
8/20/2021									
8/25/2021									
8/26/2021					<0.1		0.061 (J)		<0.1
8/27/2021		0.12							
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	<0.1	0.097 (J)	0.057 (J)			0.43			
2/10/2022							0.055 (J)	<0.1	<0.1
2/11/2022				<0.1	<0.1				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1	<0.1			
6/8/2016							<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)		0.03 (J)				
8/1/2016							<0.1		
8/30/2016								0.09 (J)	0.02 (J)
8/31/2016									
9/1/2016									
9/2/2016									
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					
9/20/2016					<0.1		<0.1		
11/1/2016									
11/2/2016				<0.1					
11/3/2016	<0.1	<0.1	<0.1			<0.1			
11/4/2016									
11/8/2016					<0.1		<0.1		
11/14/2016								0.18 (J)	
11/15/2016									
11/16/2016									0.07 (J)
11/28/2016									
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					<0.1				
1/17/2017							<0.1		
2/21/2017									
2/22/2017									
2/24/2017								0.05 (J)	
2/27/2017									0.06 (J)
2/28/2017									
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							<0.1		
3/9/2017					<0.1				
4/26/2017	<0.1	<0.1	0.04 (J)	<0.1					
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017					<0.1	<0.1	<0.1		
5/8/2017								0.03 (J)	
5/9/2017									
5/10/2017									<0.1
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1		<0.1			
6/30/2017									
7/7/2017							<0.1		
7/10/2017					<0.1				
7/11/2017								0.07 (J)	<0.1
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017			<0.1						
10/4/2017	<0.1			<0.1		<0.1			
10/5/2017		<0.1					<0.1		
10/6/2017									
10/10/2017								<0.1	
10/11/2017					<0.1				
10/12/2017									<0.1
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1				<0.1			
3/29/2018			<0.1	<0.1					
3/30/2018					<0.1		<0.1		
4/2/2018								<0.1	
4/3/2018									
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			
6/12/2018					<0.1		<0.1		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								<0.1	
9/20/2018									0.041 (J)
9/24/2018									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
9/25/2018	<0.1	<0.1	0 (J)	<0.1		<0.1			
9/26/2018							<0.1		
9/27/2018					<0.1				
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019	<0.1		0.32	<0.1		<0.1	<0.1		
3/6/2019		<0.1			<0.1				
3/26/2019									
3/27/2019								0.081 (J)	<0.1
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.12 (J)			<0.1			
4/3/2019	<0.1	<0.1		<0.1					
4/4/2019					0.049 (J)		0.033 (J)		
6/12/2019									
8/19/2019									
8/20/2019								<0.1	
8/21/2019									
8/22/2019									<0.1
9/24/2019			0.15 (J)						
9/25/2019				<0.1		<0.1			
9/26/2019	<0.1	<0.1					0.098 (J)		
9/27/2019					0.12 (J)				
10/8/2019								0.034 (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	
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0.1	0.081 (J)	<0.1		<0.1			
3/25/2020									<0.1
3/26/2020					<0.1		<0.1		
8/26/2020									
8/27/2020								<0.1	
9/22/2020								<0.1	
9/23/2020	<0.1	<0.1				<0.1	<0.1		
9/24/2020			0.079 (J)	<0.1	<0.1				<0.1
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	0.092 (J)	<0.1	<0.1		<0.1		
2/10/2021									<0.1
2/11/2021									
2/12/2021									
3/1/2021								<0.1	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
3/2/2021									
3/3/2021	<0.1	<0.1		<0.1		<0.1	<0.1		
3/4/2021			0.091 (J)		<0.1				<0.1
8/19/2021								<0.1	
8/20/2021									
8/25/2021					<0.1				<0.1
8/26/2021	<0.1								
8/27/2021		<0.1		<0.1		<0.1			
9/1/2021			0.11				<0.1		
9/3/2021									
9/27/2021									
2/8/2022								<0.1	
2/9/2022	<0.1	<0.1	0.1	<0.1		<0.1			
2/10/2022					<0.1		<0.1		<0.1
2/11/2022									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.12 (J)	0.14 (J)							
9/1/2016			0.09 (J)						
9/2/2016				0.05 (J)					
9/13/2016									
9/14/2016					0.08 (J)				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.1				
11/8/2016									
11/14/2016				0.18 (J)					
11/15/2016			0.16 (J)						
11/16/2016	0.2 (J)								
11/28/2016		0.12 (J)							
12/15/2016					0.06 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					0.1 (J)				
1/17/2017									
2/21/2017									
2/22/2017		0.09 (J)							
2/24/2017	0.21 (J)								
2/27/2017			0.06 (J)						
2/28/2017				0.09 (J)					
3/1/2017									
3/2/2017									
3/3/2017					<0.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.06 (J)				
5/1/2017									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017		0.05 (J)							
5/9/2017			0.05 (J)	0.009 (J)					
5/10/2017	0.04 (J)								
5/26/2017					0.09 (J)				
6/27/2017									
6/28/2017					0.11 (J)				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	0.2 (J)								
7/13/2017			<0.1	<0.1					
7/17/2017		0.14 (J)							
9/22/2017				0.09 (J)					
9/29/2017				<0.1					
10/3/2017					<0.1				
10/4/2017									
10/5/2017									
10/6/2017				<0.1					
10/10/2017									
10/11/2017			0.14 (J)	<0.1		<0.1			
10/12/2017	0.1 (J)						<0.1	<0.1	<0.1
10/16/2017		0.12 (J)							
11/20/2017						<0.1	0.2 (J)		<0.1
11/21/2017								<0.1	
1/10/2018									<0.1
1/11/2018						<0.1		<0.1	
1/12/2018							0.21 (J)		
2/19/2018		0.17						<0.1	<0.1
2/20/2018						0.23	<0.1		
3/27/2018									
3/28/2018					0.31				
3/29/2018									
3/30/2018				<0.1					
4/2/2018									
4/3/2018						<0.1	0.41	<0.1	<0.1
4/4/2018	<0.1		<0.1						
6/5/2018									
6/6/2018									
6/7/2018					0.11 (J)				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				<0.1					
6/27/2018								<0.1	
6/28/2018						<0.1	0.43		<0.1
8/6/2018		0.087 (J)							
8/7/2018						0.048 (J)	<0.1	0.11 (J)	<0.1
9/19/2018									
9/20/2018	<0.1		<0.1						
9/24/2018						<0.1	0.034 (J)	<0.1	<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
9/25/2018									
9/26/2018				<0.1					
9/27/2018									
10/1/2018					<0.1				
10/2/2018									
2/25/2019		0.14 (J)							
2/26/2019									
2/27/2019					0.12 (J)				
3/4/2019									
3/5/2019									
3/6/2019				<0.1					
3/26/2019									<0.1
3/27/2019						<0.1	0.24 (J)		
3/28/2019	0.078 (J)		<0.1					0.1 (J)	
3/29/2019					0.13 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.043 (J)					
6/12/2019		0.12 (J)							
8/19/2019		<0.1							
8/20/2019									
8/21/2019	0.062 (J)					<0.1			<0.1
8/22/2019							<0.1	<0.1	
9/24/2019					0.081 (J)				
9/25/2019									
9/26/2019			0.09 (J)	0.094 (J)					
9/27/2019									
10/8/2019		0.052 (J)							
10/9/2019	<0.1					<0.1	<0.1	<0.1	<0.1
2/10/2020									
2/11/2020					0.075 (J)				
2/12/2020						<0.1			<0.1
3/17/2020		0.053 (J)							
3/18/2020									
3/19/2020					0.093 (J)				
3/24/2020									<0.1
3/25/2020	0.073 (J)		<0.1	<0.1		<0.1	<0.1	<0.1	
3/26/2020									
8/26/2020		0.068 (J)							
8/27/2020									
9/22/2020		0.058 (J)							
9/23/2020					0.08 (J)				
9/24/2020			<0.1			<0.1			<0.1
9/25/2020	<0.1						<0.1	<0.1	
10/7/2020				<0.1					
2/8/2021									
2/9/2021	0.058 (J)		<0.1				<0.1		
2/10/2021				<0.1	0.094 (J)	<0.1		<0.1	<0.1
2/11/2021									
2/12/2021									
3/1/2021									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
3/2/2021		0.073 (J)							
3/3/2021					0.085 (J)				
3/4/2021	0.063 (J)		<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
8/19/2021									
8/20/2021		0.06 (J)							
8/25/2021									
8/26/2021						0.063 (J)	<0.1	<0.1	
8/27/2021					0.12				
9/1/2021			<0.1						
9/3/2021				<0.1					<0.1
9/27/2021	0.1								
2/8/2022	0.066 (J)	0.064 (J)	<0.1			0.052 (J)		<0.1	<0.1
2/9/2022					0.094 (J)				
2/10/2022							<0.1		
2/11/2022				<0.1					

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (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	7.72	7.46					
6/2/2016					5.46	7.67	6.36	5.75	7.84
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016		6.21	7.74					5.82	
7/26/2016				7.43	5.45	7.66	6.22		7.88
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		6.16		7.44					
9/14/2016			7.65			7.6	6.23		
9/15/2016					5.45				7.74
9/16/2016									
9/19/2016								5.78 (D)	
9/20/2016									
11/1/2016			7.7	7.24				5.62	7.75
11/2/2016					5.41	7.35	6.08		
11/3/2016									
11/4/2016		6.29							
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017					5.37				
1/11/2017			7.53	7.3					7.66
1/12/2017						7.49			
1/13/2017							6.19		
1/16/2017		6.29						5.72	
1/17/2017									
2/21/2017								5.67	
2/22/2017	6.21								
2/24/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
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		
3/7/2017						7.43			
3/8/2017					5.41				
3/9/2017									
4/26/2017			7.4		5.02			5.56	7.45
4/27/2017		6.09		6.99					
4/28/2017									
5/1/2017						7.22	6.21		
5/2/2017									
5/8/2017	6.12								
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		6.21		6.87		7.32			
6/28/2017			7.5						7.65
6/29/2017							6.21		
6/30/2017					5.39			5.72	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017	6.03								
9/22/2017									
9/29/2017									
10/3/2017		5.98		6.81		7.48			
10/4/2017			7.45					5.87	7.49
10/5/2017					5.49		6.16		
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018		6.25			5.47			5.83	
3/28/2018			7.74						7.91
3/29/2018				7.38		7.02	6.09		
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018				7.16					

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/6/2018		6.17				7.43			
6/7/2018							6.12		7.69
6/8/2018			7.64		5.45				
6/11/2018								5.69	
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018						7.13	5.84		
9/27/2018									
10/1/2018		5.9	7.47	6.8	5.39				7.39
10/2/2018								5.39	
2/25/2019	6.51								
2/26/2019					5.46			5.77	
2/27/2019		5.8	7.54	6.84					7.55
3/4/2019						7.46	6.18		
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		6.15		6.99					
3/29/2019					5.34				
4/1/2019			7.74					5.62	7.87
4/2/2019									
4/3/2019						7.11	6.43		
4/4/2019									
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019		6.23		7.07		6.93			
9/25/2019			7.47		5.19		6.2	5.69	7.64
9/26/2019									
9/27/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020		6.1		7.2					
2/11/2020			7.09						
2/12/2020					5.48	7.52	6.15	5.8	7.83
3/17/2020	6.14								
3/18/2020		6.19			5.38				
3/19/2020			7.31	7.03				6	7.65
3/24/2020						7.34			
3/25/2020							6.26		
3/26/2020									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78					7.19 (D)	5.8 (D)		
9/23/2020		6.01	7.37	7.15					7.57
9/24/2020								5.67	
9/25/2020					5.44				
10/7/2020									
2/8/2021									
2/9/2021							6.06		
2/10/2021			7.58		5.35				7.81
2/11/2021								5.73	
2/12/2021		6.21		7.14					
3/1/2021								5.78	
3/2/2021	5.42				5.49	7.15			
3/3/2021		5.38	8.23	7.2			6.21		8.39
3/4/2021									
8/19/2021		6.38		6.32	7.32				5.34
8/20/2021	5.86								
8/25/2021									
8/26/2021						7.16	5.82		
8/27/2021			7.39						
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022	5.83								
2/9/2022		6.24	7.66	7.12					7.97
2/10/2022					4.5	6.99			
2/11/2022							5.95	5.59	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
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	5.75								
6/6/2016		5.71	6.17						
6/7/2016				5.77	6.1	5.62	5.57		
6/8/2016								5.65	
7/25/2016									
7/26/2016	5.72								
7/27/2016		5.46	6.14	5.79		5.59			
7/28/2016					6.12		5.6		
8/1/2016								5.47	
8/30/2016									5.75
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016	5.74								
9/15/2016									
9/16/2016						5.58			
9/19/2016		5.59	6.04	5.73	6.12				
9/20/2016							5.53	5.61	
11/1/2016									
11/2/2016				5.67					
11/3/2016		5.39	5.97		6.07	5.59			
11/4/2016	5.61								
11/8/2016							5.53	5.55	
11/14/2016									5.59
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		5.48	6.05			5.59			
1/12/2017	5.71								
1/13/2017				5.79	6.41				
1/16/2017							5.59		
1/17/2017								5.53	
2/21/2017									
2/22/2017									
2/24/2017									5.49

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
2/27/2017									
2/28/2017									
3/1/2017		5.41	5.94						
3/2/2017						5.54			
3/3/2017									
3/6/2017				5.63	6.34				
3/7/2017	5.66								
3/8/2017								5.62	
3/9/2017							5.56		
4/26/2017		5.4	5.99	5.66	6.32				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017	5.65					5.47	5.61	5.46	
5/8/2017									5.58
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	5.7								
6/28/2017		5.36	6						
6/29/2017				5.85	6.47	5.56			
6/30/2017									
7/7/2017								5.81	
7/10/2017							5.68		
7/11/2017									5.58
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017	5.79				6.56				
10/4/2017		5.32		5.83		5.57			
10/5/2017			6.11					5.45	
10/6/2017									
10/10/2017									5.49
10/11/2017							5.46		
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018		5.34	6.1			5.59			
3/29/2018	5.63			5.93	6.75				
3/30/2018							5.73	5.64	
4/2/2018									6.3 (O)
4/3/2018									
4/4/2018									
6/5/2018					6.09				

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
6/6/2018				5.86					
6/7/2018	5.63		5.98						
6/8/2018									
6/11/2018		5.28				5.58			
6/12/2018							5.63	5.64	
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									5.48
9/20/2018									
9/24/2018									
9/25/2018		4.86	5.81	5.84	6.67	5.59			
9/26/2018	5.63							5.61	
9/27/2018							5.47		
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019	5.75								
3/5/2019		5.26		6.07	7.22	5.48		5.72	
3/6/2019			5.99				5.84		
3/26/2019									
3/27/2019									5.83
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019					6.94	5.74			
4/3/2019	5.63	5.47	6.29	5.71					
4/4/2019							5.64	5.66	
6/12/2019									
8/19/2019									
8/20/2019									5.58
8/21/2019									
8/22/2019									
9/24/2019	5.6				6.87				
9/25/2019				5.86		5.49			
9/26/2019		5.2	6.04					5.52	
9/27/2019							5.77		
10/8/2019									5.59
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07			5.58			
2/12/2020	5.83			6	7.13				
3/17/2020									5.57
3/18/2020									
3/19/2020									
3/24/2020	5.81	5.33	5.98	5.86	6.35	5.57			
3/25/2020									
3/26/2020							5.69	5.51	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
5/6/2020									
8/26/2020									
8/27/2020									4.88
9/22/2020	5.99 (D)								5.46
9/23/2020		5.29 (D)	6.01 (D)			5.58 (D)		5.64	
9/24/2020				5.8 (D)	6.7 (D)		5.51		
9/25/2020									
10/7/2020									
2/8/2021	5.67								
2/9/2021		5.43	6.12	5.86	6.95		5.61	5.69	
2/10/2021									
2/11/2021									
2/12/2021									
3/1/2021									5.48
3/2/2021	5.63								
3/3/2021		5.31	5.89	5.89		5.52		5.7	
3/4/2021					6.8		5.44		
8/19/2021									5.5
8/20/2021									
8/25/2021							5.46		
8/26/2021	5.51	4.4							
8/27/2021			5.4	5.57		5.27			
9/1/2021					6.65			5.22	
9/3/2021									
9/27/2021									
2/8/2022									5.4
2/9/2022		5.28	5.98	5.91	6.84	5.53			
2/10/2022	5.14						5.51	4.66	
2/11/2022									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
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									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016	5.64								
8/31/2016		7.27							
9/1/2016			5.78						
9/2/2016				5.84					
9/13/2016					7.41				
9/14/2016									
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					7.12				
11/8/2016									
11/14/2016				6.28					
11/15/2016			5.81						
11/16/2016	6.21	6.79							
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				
1/17/2017									
2/21/2017									
2/22/2017									
2/24/2017		6.39							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
2/27/2017	6.09		5.68						
2/28/2017				5.99					
3/1/2017									
3/2/2017									
3/3/2017					7.22				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					7.21				
5/1/2017									
5/2/2017									
5/8/2017									
5/9/2017			6.18	6.3					
5/10/2017	5.79	6.5							
5/26/2017					7.13				
6/27/2017									
6/28/2017					7.06				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	5.45	6.32							
7/13/2017			5.6	5.57					
7/17/2017									
9/22/2017				5.5					
9/29/2017				5.58					
10/3/2017					6.99				
10/4/2017									
10/5/2017									
10/6/2017				5.51					
10/10/2017									
10/11/2017			5.61	5.47		6.4			
10/12/2017	5.48	5.97					4.94	4.85	5.43
10/16/2017									
11/20/2017						6.33		4.87	5.1
11/21/2017							4.69		
1/10/2018									4.97
1/11/2018						6.29	4.73		
1/12/2018								4.78	
2/19/2018							4.96		5.6
2/20/2018						7.22		5.1	
3/27/2018									
3/28/2018					7.3				
3/29/2018									
3/30/2018				5.51					
4/2/2018									
4/3/2018						6.87	5.31	4.76	5.84
4/4/2018	5.93	6.41	5.98						
6/5/2018									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
6/6/2018									
6/7/2018					7.29				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.5					
6/27/2018							4.78		
6/28/2018						6.18		4.75	5.24
8/6/2018									
8/7/2018						6.08	4.77	4.72	5.18
9/19/2018									
9/20/2018	5.63	5.69	5.67						
9/24/2018						5.81	4.78	4.67	5.14
9/25/2018									
9/26/2018				5.53					
9/27/2018									
10/1/2018					7.07				
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019					7.27				
3/4/2019									
3/5/2019									
3/6/2019				5.21					
3/26/2019									5.3
3/27/2019	5.57					5.84		4.79	
3/28/2019		5.96	5.86				5		
3/29/2019					7.06				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.74					
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019		5.84				5.96			5.26
8/22/2019	5.61						4.89	4.81	
9/24/2019					7.01				
9/25/2019									
9/26/2019			5.6	5.51					
9/27/2019									
10/8/2019									
10/9/2019	5.5	5.78				5.81	4.86	4.8	5.22
2/10/2020									
2/11/2020					7.38				
2/12/2020						5.97			5.3
3/17/2020									
3/18/2020									
3/19/2020					7.22				
3/24/2020									5.29
3/25/2020	5.53	5.79	5.69	5.49		5.78	4.87	4.89	
3/26/2020									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020					7.22				
9/24/2020	5.55		5.62			5.7 (D)			5.43 (D)
9/25/2020		5.75					4.95	4.9	
10/7/2020				5.86					
2/8/2021									
2/9/2021		5.86	5.79					5.04	
2/10/2021	5.65			6.31	7.29	5.8	4.98		5.19
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									
3/3/2021					7.92				
3/4/2021	5.59	5.88	5.88	5.67		5.54	4.69	5.01	5.23
8/19/2021									
8/20/2021									
8/25/2021	6.73								
8/26/2021						6.91	6.77	4.54	
8/27/2021					7.14				
9/1/2021			5.15						
9/3/2021				5.06					4.75
9/27/2021		6.08							
2/8/2022		5.82 (D)	5.79 (D)			5.78	5.07 (D)		5.26
2/9/2022					5.89				
2/10/2022	5.57							4.85	
2/11/2022				5.58					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	12	4.2	5						
6/2/2016				20	5.8	1.3	8	6.6	1.9
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	8.4	3.7				1.2			
7/26/2016			5.4	20	6.7		7.7	6.1	1.8
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		5.2	2.9						
9/14/2016	8.6			19			7.5		1.8
9/15/2016					6			6.1	
9/16/2016									
9/19/2016						1.2			
9/20/2016									
11/1/2016	8.9		3.9		4.9	1.3			
11/2/2016				20			8.2	6.3	
11/3/2016									
11/4/2016		5							2
11/8/2016									
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			
1/17/2017									
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	
3/9/2017									
4/26/2017	11				5.1	1.4		7	
4/27/2017		7.4	5.2						
4/28/2017									
5/1/2017				20			8.4		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2/2017									2
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		6.4	5.9	18					2.1
6/28/2017	12				5.4				
6/29/2017							9.2		
6/30/2017						<1		6.5	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		5.9	6.6	16					2.3
10/4/2017	12				6.2	1.4			
10/5/2017							9.6	7.9	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			6.4						
6/6/2018		4.4		8.3					
6/7/2018					6.7		8.5		2
6/8/2018	9.6							6.4	
6/11/2018						1.1			
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				7.9			10.2		2.3
9/27/2018									
10/1/2018	9.1	4	5.6		7.1			6.8	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
10/2/2018						1			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		4.3	8						
3/29/2019								7.3	
4/1/2019	8.5				7.2	0.96 (J)			
4/2/2019									
4/3/2019				7			8.5		2.1
4/4/2019									
6/12/2019									
9/24/2019		4.3	5.3	5.5					2.4
9/25/2019	13.8				7	0.81 (J)	8.5	6.6	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		5.3						8.1	
3/19/2020	12.9		10		9	1.6			
3/24/2020				5.9					2.1
3/25/2020							8.8		
3/26/2020									
9/22/2020				5.5			8.2		2.1
9/23/2020	16.8	3.4	8.1		6.9				
9/24/2020						0.69 (J)			
9/25/2020								6.1	
10/7/2020									
3/1/2021						0.88 (J)			
3/2/2021				2.6				6	2.3
3/3/2021	9.6	4.4	9		7		7.8		
3/4/2021									
8/19/2021		4.9	8.9		7.5	1		6.7	
8/20/2021									
8/25/2021									
8/26/2021				6			8.5		2.4
8/27/2021	18.2								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	16	5.1	9.3		7.2				
2/10/2022				4.9				6.2	2.4
2/11/2022						2.8	7.7		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			4.4	<1	5.2	56			
6/8/2016							<1		
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9	4.7	0.08 (J)					
7/28/2016					5.1	57			
8/1/2016							1.1		
8/30/2016								160	980
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.7	4.8						
9/19/2016	1.8			0.08 (J)	4.8				
9/20/2016						68	0.38 (J)		
11/1/2016									
11/2/2016				0.1 (J)					
11/3/2016	0.69 (J)	1.9	5.3		5				
11/4/2016									
11/8/2016						79	0.39 (J)		
11/14/2016								150	
11/15/2016									
11/16/2016									940
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<1	1.7	5.2						
1/12/2017									
1/13/2017				<1	4.3				
1/16/2017						72			
1/17/2017							<1		
2/21/2017									
2/22/2017									
2/24/2017								120	
2/27/2017									940
2/28/2017									
3/1/2017	1.8	<1							
3/2/2017			5						
3/3/2017									
3/6/2017				<1	4.5				
3/7/2017									
3/8/2017							0.29 (J)		
3/9/2017						69			
4/26/2017	1.6	1.9		<1	4.9				
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			5			60	0.29 (J)		
5/8/2017								120	
5/9/2017									
5/10/2017									1200
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	<1	5.5				
6/30/2017									
7/7/2017							0.37 (J)		
7/10/2017						57			
7/11/2017								110	1300
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					5.8				
10/4/2017		1.7	5.3	<1					
10/5/2017	1.6						<1		
10/6/2017									
10/10/2017								93	
10/11/2017						52			
10/12/2017									1100
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								88.8	
4/3/2018									
4/4/2018									1020
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						
6/12/2018						41.4	0.35 (J)		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								75	
9/20/2018									810
9/24/2018									
9/25/2018	1	1.5	6.1	0.13 (J)	7				
9/26/2018							0.28 (J)		
9/27/2018						39.6			
10/1/2018									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								65.9	831
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			5.1		3.8				
4/3/2019	0.82 (J)	1.3		0.12 (J)					
4/4/2019						27.9	0.29 (J)		
6/12/2019									
9/24/2019					1				
9/25/2019			5.5	<1					
9/26/2019	0.64 (J)	1					0.23 (J)		
9/27/2019						30.3			
10/8/2019								52.3	
10/9/2019									725
3/17/2020								71.6	
3/18/2020									
3/19/2020									
3/24/2020	<1	0.99 (J)	5.4	<1	3				
3/25/2020									642
3/26/2020						36.5	<1		
9/22/2020								51.5	
9/23/2020	0.53 (J)	1.1	5.1				<1		
9/24/2020				<1	3.6	52.5			579
9/25/2020									
10/7/2020									
3/1/2021								51.6	
3/2/2021									
3/3/2021	<1	1	5.2	<1			<1		
3/4/2021					4.5	61.7 (M1)			537
8/19/2021								52.6	
8/20/2021									
8/25/2021						68			500
8/26/2021		1.2							
8/27/2021	0.59 (J)		5.3	<1					
9/1/2021					5		<1		
9/3/2021									
9/27/2021									
2/8/2022								50.9	
2/9/2022	0.51 (J)	1.1	4.8	<1	3.9				
2/10/2022						78.7	<1		485
2/11/2022									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	34	29							
9/1/2016			95						
9/2/2016				72					
9/13/2016									
9/14/2016					9.4				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					13				
11/8/2016									
11/14/2016				110					
11/15/2016			94						
11/16/2016	240								
11/28/2016		36							
12/15/2016					1.8				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					11				
1/17/2017									
2/21/2017									
2/22/2017		43							
2/24/2017	89								
2/27/2017			84						
2/28/2017				110					
3/1/2017									
3/2/2017									
3/3/2017					8.8				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					10				
5/1/2017									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		60							
5/9/2017			91	130					
5/10/2017	100								
5/26/2017					12				
6/27/2017									
6/28/2017					11				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	110								
7/13/2017			88	140					
7/17/2017		63							
9/22/2017				160					
9/29/2017				160					
10/3/2017					7.9				
10/4/2017									
10/5/2017									
10/6/2017				160					
10/10/2017									
10/11/2017			86	150		20			
10/12/2017	120						17	940	400
10/16/2017		62							
11/20/2017						24	71	980	
11/21/2017									430
1/10/2018							66		
1/11/2018						23			390
1/12/2018								880	
2/19/2018		64.6					57.2		414
2/20/2018						20.6		905	
4/2/2018									
4/3/2018						24.5	49.4	872	406
4/4/2018	160		76.5						
6/5/2018									
6/6/2018									
6/7/2018					8.8				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				144					
6/27/2018									357
6/28/2018						22	43.8	869	
8/6/2018		42.1							
8/7/2018						20.7	40.5	879	346
9/19/2018									
9/20/2018	247		84.1						
9/24/2018						21.2	39.7	872	358
9/25/2018									
9/26/2018				160					
9/27/2018									
10/1/2018					9.1				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		42.1							
3/26/2019							34.3		
3/27/2019						17.7		851	
3/28/2019	181		82.8						258
3/29/2019					9				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				119					
6/12/2019		83.4							
9/24/2019					9.1				
9/25/2019									
9/26/2019			80	84.8					
9/27/2019									
10/8/2019		128							
10/9/2019	279					15	27.9	708	263
3/17/2020		98.6							
3/18/2020									
3/19/2020					12.4				
3/24/2020							25.2		
3/25/2020	164		76.1	58.8		14.3		483	214
3/26/2020									
9/22/2020		145							
9/23/2020					11.8				
9/24/2020			77			11.7	22.9		
9/25/2020	281							414	175
10/7/2020				18.2					
3/1/2021									
3/2/2021		156							
3/3/2021					10.6				
3/4/2021	328		75.1	6.3		12	21.5	356	117
8/19/2021									
8/20/2021		121							
8/25/2021									
8/26/2021						19.2		328	117
8/27/2021					16.7				
9/1/2021			79.8						
9/3/2021				13.8			21.3		
9/27/2021	56.5								
2/8/2022	133	107	73.9			14.6	17.9		109
2/9/2022					18				
2/10/2022								290	
2/11/2022				16.4					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	150	54	120						
6/2/2016				160	130	36	96	46	66
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	135	48				50			
7/26/2016			94	177	141		92	54	78
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		67	105						
9/14/2016	127			187			102		73
9/15/2016					153			54	
9/16/2016									
9/19/2016						35			
9/20/2016									
11/1/2016	75		44		92	<25			
11/2/2016				181			115	71	
11/3/2016									
11/4/2016		60							75
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								45	
1/11/2017	148		107		159				
1/12/2017				202					86
1/13/2017							67		
1/16/2017		65				47			
1/17/2017									
2/21/2017						<25			
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	182								
3/2/2017		61	98		117				
3/3/2017									
3/6/2017							159		
3/7/2017				257					108
3/8/2017								178	
3/9/2017									
4/26/2017	92				181	55		52	
4/27/2017		31	116						
4/28/2017									
5/1/2017				165			107		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2/2017									103
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		42	89	189					73
6/28/2017	126				169				
6/29/2017							79		
6/30/2017						42		45	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		58	119	170					89
10/4/2017	147				141	31			
10/5/2017							95	40	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			127						
6/6/2018		96		151					
6/7/2018					95		90		142
6/8/2018	158							114	
6/11/2018						59			
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				144			116		86
9/27/2018									
10/1/2018	138	60	117		165			50	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
10/2/2018						57			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019								63	
4/1/2019	19 (J)				149	54			
4/2/2019									
4/3/2019				142			111		83
4/4/2019									
6/12/2019									
9/24/2019		54	124	129					79
9/25/2019	159				157	51	117	64	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		35						57	
3/19/2020	148		116		146	47			
3/24/2020				139					68
3/25/2020							146		
3/26/2020									
9/22/2020				104			83		75
9/23/2020	155	15	108		157				
9/24/2020						51			
9/25/2020								54	
10/7/2020									
3/1/2021						23			
3/2/2021				52				67	67
3/3/2021	111	39	99		137		80		
3/4/2021									
8/19/2021		44	105		144	50		54	
8/20/2021									
8/25/2021									
8/26/2021				123			93		86
8/27/2021	155								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	145	57	105		154				
2/10/2022				127				56	77
2/11/2022						66	102		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			28	38	60	130			
6/8/2016							66		
7/25/2016									
7/26/2016									
7/27/2016	94	35	74	74					
7/28/2016					81	119			
8/1/2016							56		
8/30/2016								319	1650
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35	67						
9/19/2016	92			45	68				
9/20/2016						132	53		
11/1/2016									
11/2/2016				53					
11/3/2016	104	48	41		61				
11/4/2016									
11/8/2016						146	58		
11/14/2016								280	
11/15/2016									
11/16/2016									1420
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	133	95	104						
1/12/2017									
1/13/2017				46	76				
1/16/2017						194			
1/17/2017							56		
2/21/2017									
2/22/2017									
2/24/2017								162	
2/27/2017									1640
2/28/2017									
3/1/2017	119	79							
3/2/2017			77						
3/3/2017									
3/6/2017				164	167				
3/7/2017									
3/8/2017							192		
3/9/2017						288			
4/26/2017	162	36		34	50				
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			142			221	113		
5/8/2017								194	
5/9/2017									
5/10/2017									1630
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017			53	68	94				
6/30/2017									
7/7/2017							46		
7/10/2017						123			
7/11/2017								193	1800
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					149				
10/4/2017		45	61	54					
10/5/2017	104						48		
10/6/2017									
10/10/2017								175	
10/11/2017						100			
10/12/2017									1600
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								192	
4/3/2018									
4/4/2018									1520
6/5/2018					109				
6/6/2018				79					
6/7/2018	68								
6/8/2018									
6/11/2018		74	70						
6/12/2018						115	79		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								186	
9/20/2018									1240
9/24/2018									
9/25/2018	109	63	86	73	122				
9/26/2018							59		
9/27/2018						105			
10/1/2018									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								170	1100
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			72		134				
4/3/2019	89	63		57					
4/4/2019						85	63		
6/12/2019									
9/24/2019					157				
9/25/2019			81	75					
9/26/2019	126	72					81		
9/27/2019						96			
10/8/2019								172	
10/9/2019									1170
3/17/2020								165	
3/18/2020									
3/19/2020									
3/24/2020	91	59	71	76	117				
3/25/2020									1200
3/26/2020						110	67		
9/22/2020								141	
9/23/2020	103	81	99				87		
9/24/2020				69	113	129			1060
9/25/2020									
10/7/2020									
3/1/2021								145	
3/2/2021									
3/3/2021	95	37	57	53			70		
3/4/2021					110	96			501
8/19/2021								134	
8/20/2021									
8/25/2021						141			886
8/26/2021		31							
8/27/2021	112		93	67					
9/1/2021					137		96		
9/3/2021									
9/27/2021									
2/8/2022								151	
2/9/2022	103	60	81	72	131				
2/10/2022						180	78		882
2/11/2022									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	80	209							
9/1/2016			228						
9/2/2016				243					
9/13/2016									
9/14/2016					152				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					148				
11/8/2016									
11/14/2016				272					
11/15/2016			211						
11/16/2016	112								
11/28/2016		102							
12/15/2016					191				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					180				
1/17/2017									
2/21/2017									
2/22/2017		164							
2/24/2017	147								
2/27/2017			382						
2/28/2017				306					
3/1/2017									
3/2/2017									
3/3/2017					156				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					130				
5/1/2017									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		145							
5/9/2017			154	303					
5/10/2017	203								
5/26/2017					223				
6/27/2017									
6/28/2017					166				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	238								
7/13/2017			192	282					
7/17/2017		185							
9/22/2017				309					
9/29/2017				273					
10/3/2017					153				
10/4/2017									
10/5/2017									
10/6/2017				287					
10/10/2017									
10/11/2017			177	264		68			
10/12/2017	287						74	1360	636
10/16/2017		218							
11/20/2017						139	179	1390	
11/21/2017									706
1/10/2018							140		
1/11/2018						153			701
1/12/2018								1400	
2/19/2018		173					119		630
2/20/2018						87		1300	
4/2/2018									
4/3/2018						85	106	1390	660
4/4/2018	292		174						
6/5/2018									
6/6/2018									
6/7/2018					146				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				292					
6/27/2018									575
6/28/2018						88	112	1310	
8/6/2018		158							
8/7/2018						89	103	1340	574
9/19/2018									
9/20/2018	434		186						
9/24/2018						82	107	1400	588
9/25/2018									
9/26/2018				277					
9/27/2018									
10/1/2018					155				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/28/2022 5:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		92							
3/26/2019							90		
3/27/2019						75		1190	
3/28/2019	323		164						372
3/29/2019					150				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				240					
6/12/2019		226							
9/24/2019					146				
9/25/2019									
9/26/2019			192	198					
9/27/2019									
10/8/2019		276							
10/9/2019	501					119	98	1100	440
3/17/2020		185							
3/18/2020									
3/19/2020					148				
3/24/2020							84		
3/25/2020	352		130	164		158		883	428
3/26/2020									
9/22/2020		281							
9/23/2020					161				
9/24/2020			187			170	77		
9/25/2020	494							664	307
10/7/2020				137					
3/1/2021									
3/2/2021		296							
3/3/2021					138				
3/4/2021	592		145	69		168	57	600	224
8/19/2021									
8/20/2021		254							
8/25/2021									
8/26/2021						249		562	225
8/27/2021					150				
9/1/2021			163						
9/3/2021				89			88		
9/27/2021	158								
2/8/2022	294	283	164			248	93		226
2/9/2022					156				
2/10/2022								541	
2/11/2022				81					

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.924	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.621	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.573	-62	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.6123	69	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1305	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07569	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.174	97	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.819	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-29.53	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.96	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.677	-83	-53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.816	78	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7001	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.0958	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1558	-69	-68	Yes	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.833	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-9.797	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.238	-119	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0955	100	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-157.5	-94	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-111.1	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-19.14	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	18.82	81	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4345	86	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.183	74	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-13.89	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-15.08	-97	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-210	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-119.1	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-162.2	-79	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	86.07	65	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-13.78	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	24.56	61	58	Yes	16	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.00005921	8	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-26	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0001172	14	68	No	18	22.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-11	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-46	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.007949	41	53	No	15	6.667	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01631**	**-64**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	-5	-68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	26	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-32	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	-0.03367	-16	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-3.924**	**-83**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-2.621**	**-68**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-42**	**-1.573**	**-62**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.6123**	**69**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0007235	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0004307	-27	-68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0003452	22	68	No	18	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-10	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-22	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-19	-68	No	18	88.89	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1305**	**91**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.02072	10	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07569**	**-96**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.04138	51	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**1.174**	**97**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-39 (bg)	0.9186	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.7684	-45	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.009311	4	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.819**	**-87**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-5I (bg)	0.06854	66	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWC-38**	**-29.53**	**-91**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-42**	**-11.96**	**-71**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.677**	**-83**	**-53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**3.816**	**78**	**58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	-0.00868	-30	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-1D (bg)**	**0.7001**	**77**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.0958**	**-81**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.08578	11	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.006518	17	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5552	59	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.6025	52	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.07043	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1558**	**-69**	**-68**	**Yes**	**18**	**22.22**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1518	-54	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	36	68	No	18	66.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2086	-31	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.833**	**-59**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-9.797**	**-77**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.0866	30	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.238**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.0955**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

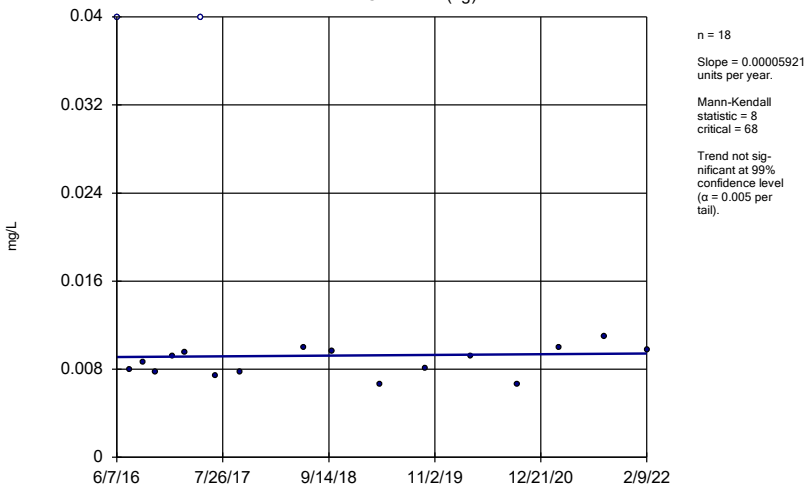
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**YGWC-38**	**-157.5**	**-94**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-42**	**-111.1**	**-76**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-19.14**	**-92**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**18.82**	**81**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	0.04468	14	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9733**	**103**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.1386	-20	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.7686	44	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03944	-14	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4345**	**86**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**1.183**	**74**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	4.594	38	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-0.8196	-15	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.4481	12	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.147	36	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	12.83	63	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	28.42	53	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-40 (bg)**	**-13.89**	**-55**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.5267	6	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-5D (bg)**	**-15.08**	**-97**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	0	-4	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWC-38**	**-210**	**-75**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-41**	**-119.1**	**-83**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-42**	**-162.2**	**-79**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-43**	**86.07**	**65**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-13.78**	**-75**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GWA-2 (bg)**	**24.56**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.8555	20	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	0.2702	7	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-2.568	-31	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-2.032	-29	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	2.779	37	68	No	18	11.11	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	1.473	15	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	1.513	13	68	No	18	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.00005921 units per year.

Mann-Kendall statistic = 8
critical = 68

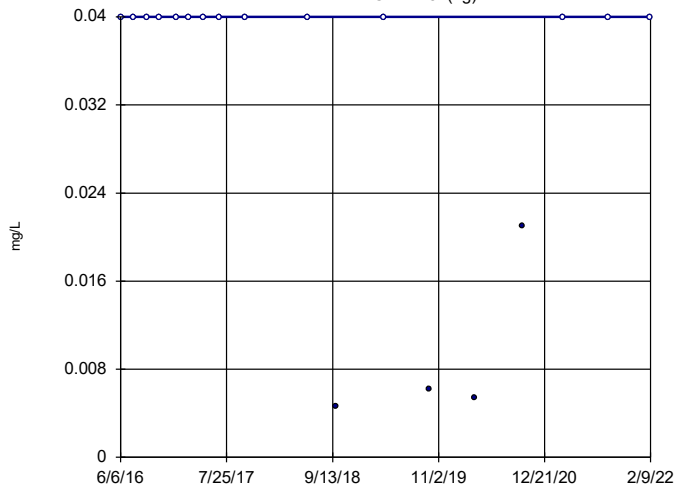
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -26
critical = -68

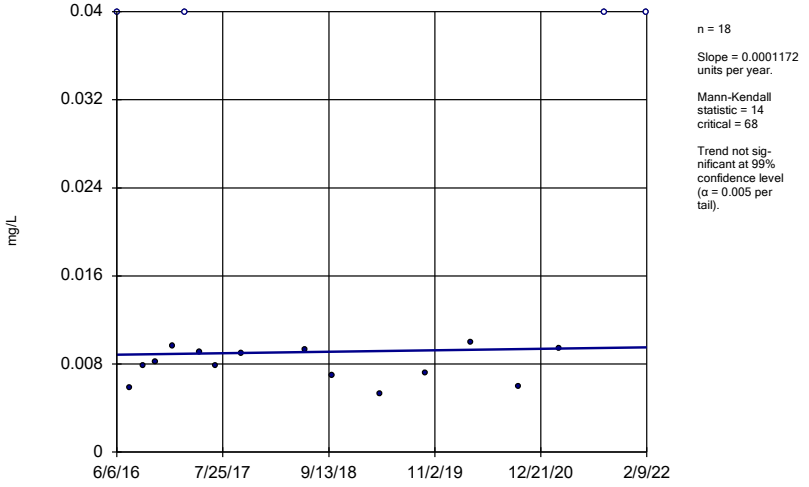
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = 0.0001172 units per year.

Mann-Kendall statistic = 14
critical = 68

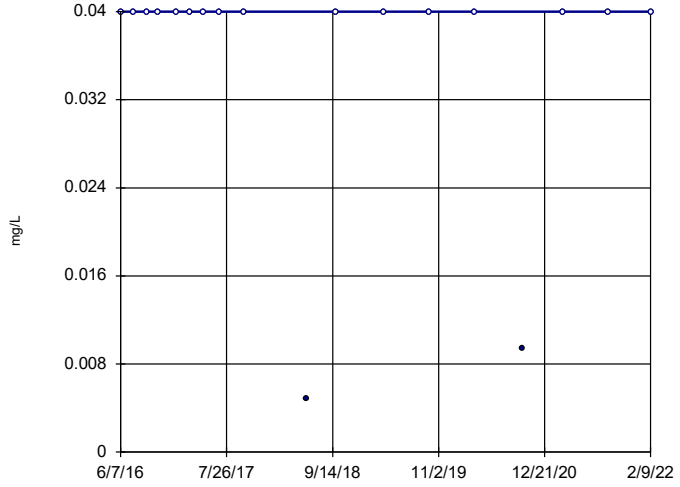
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -68

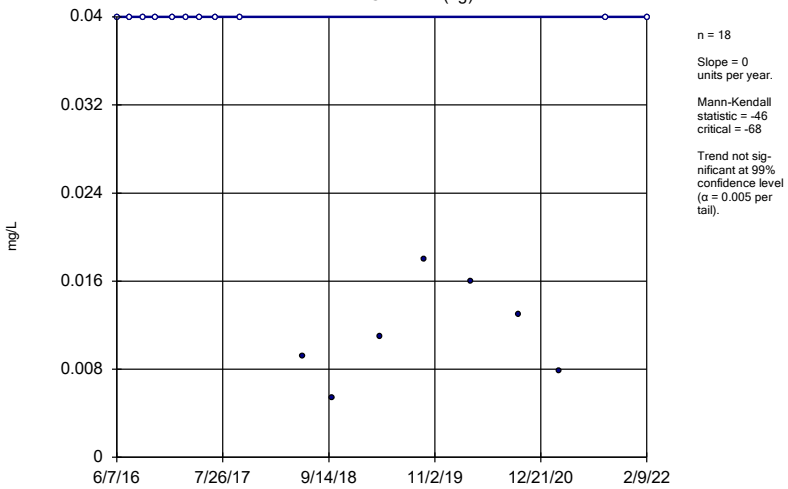
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -46
critical = -68

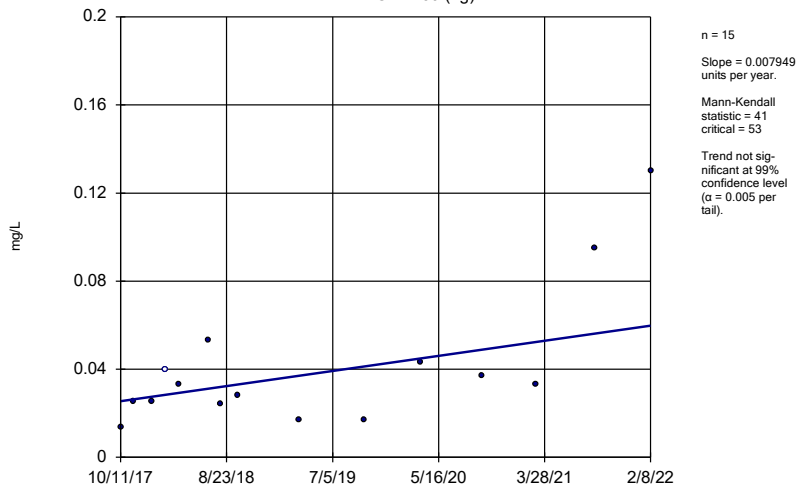
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 0.007949 units per year.

Mann-Kendall statistic = 41
critical = 53

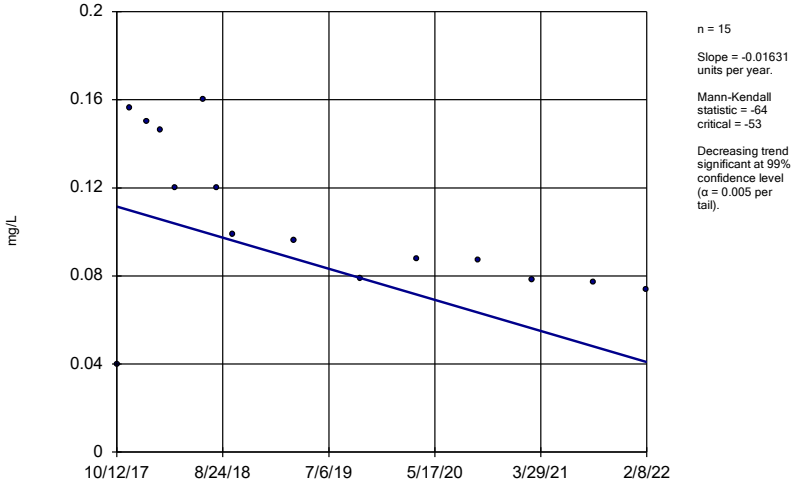
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -0.01631 units per year.

Mann-Kendall statistic = -64
critical = -53

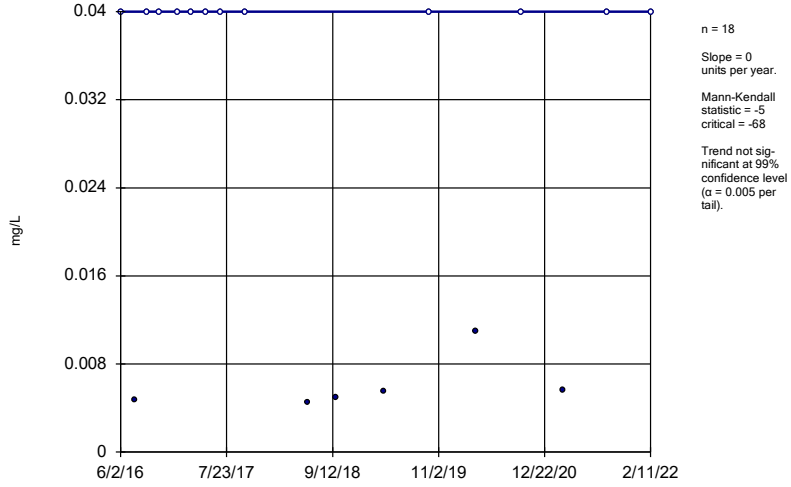
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -68

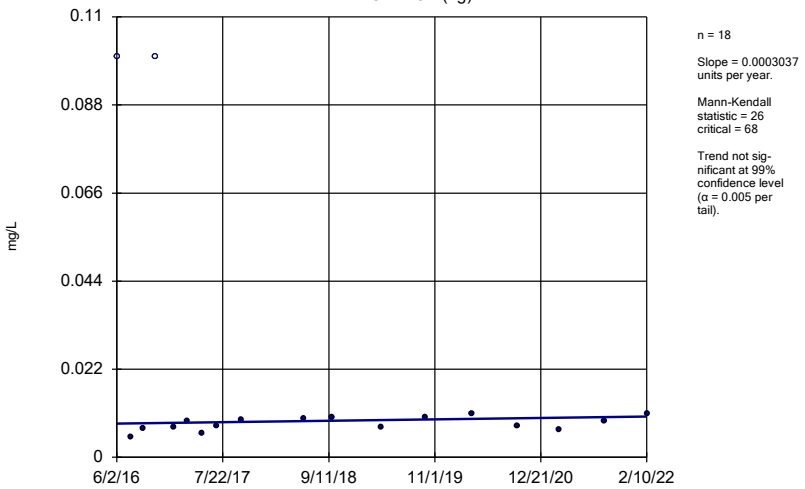
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = 0.0003037 units per year.

Mann-Kendall statistic = 26
critical = 68

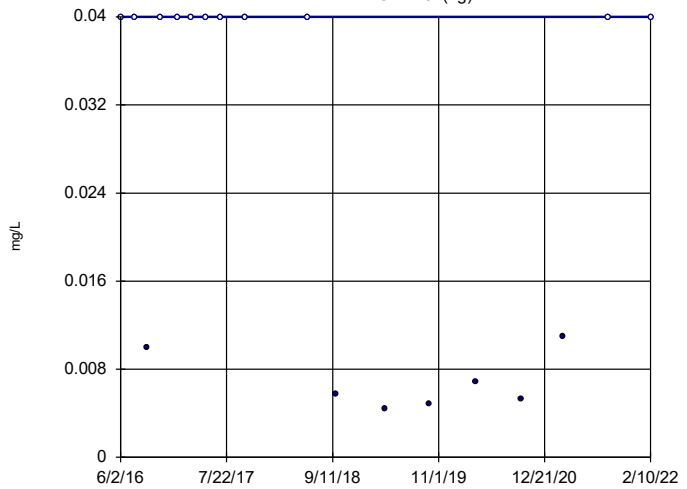
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0
units per year.

Mann-Kendall statistic = -32
critical = -68

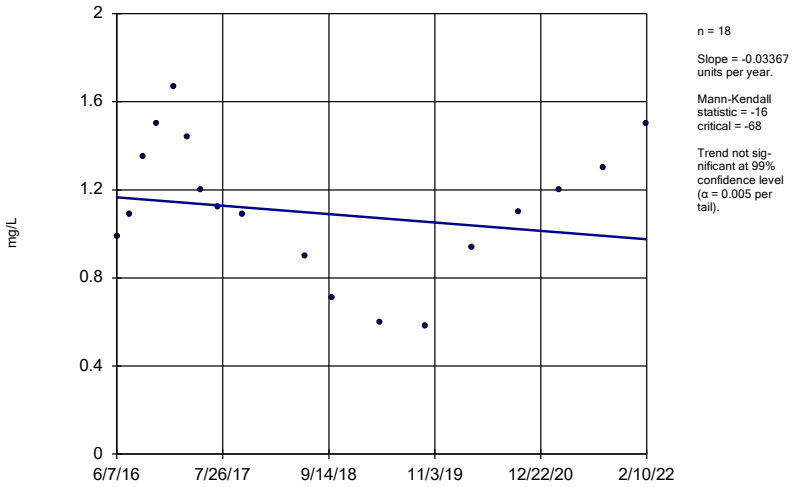
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-23S



n = 18

Slope = -0.03367 units per year.

Mann-Kendall statistic = -16
critical = -68

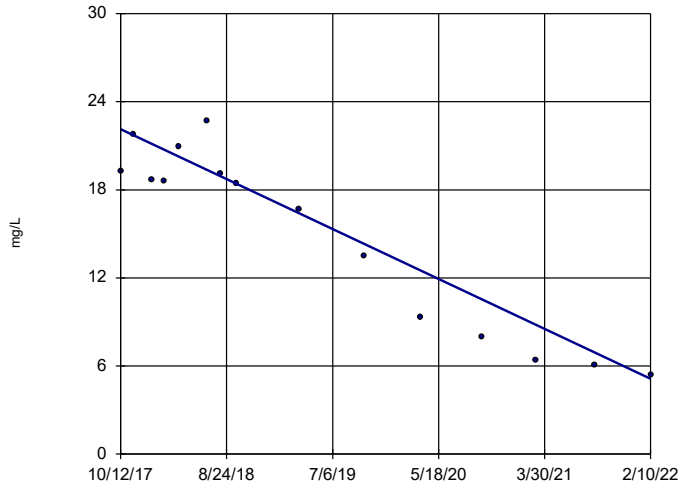
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 15

Slope = -3.924 units per year.

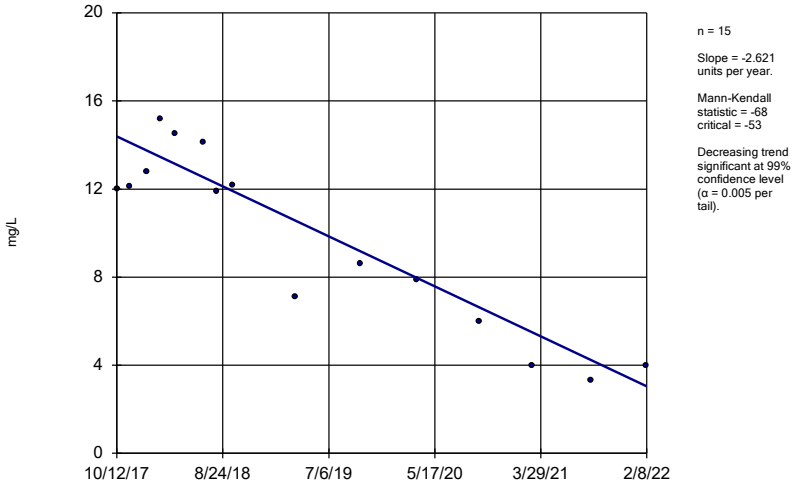
Mann-Kendall statistic = -83
critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-41



n = 15

Slope = -2.621 units per year.

Mann-Kendall statistic = -68 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

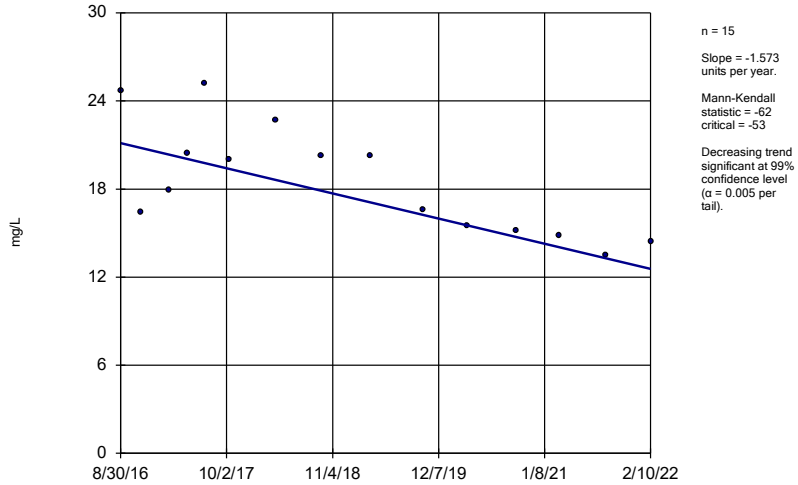
Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-42



n = 15

Slope = -1.573 units per year.

Mann-Kendall statistic = -62 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

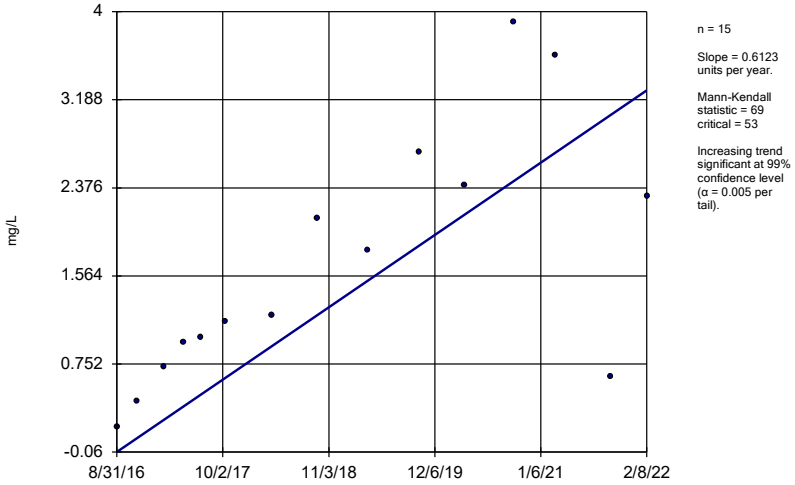
Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-43



n = 15

Slope = 0.6123 units per year.

Mann-Kendall statistic = 69 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

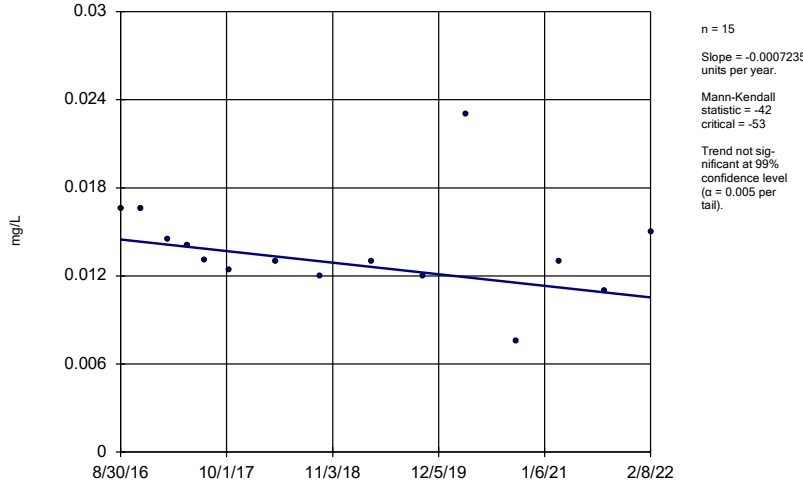
Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -0.0007235 units per year.

Mann-Kendall statistic = -42 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

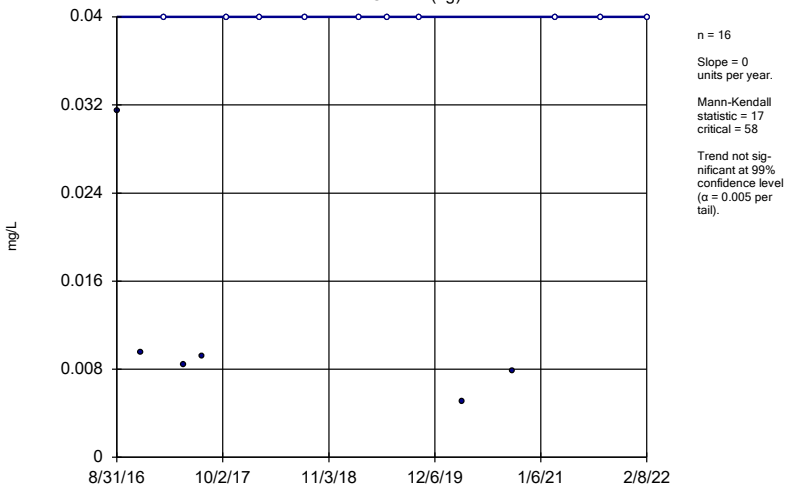
Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 17
critical = 58

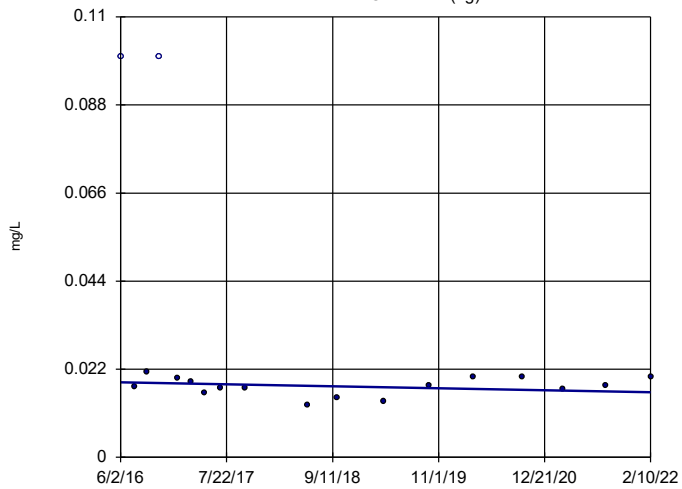
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = -0.0004307 units per year.

Mann-Kendall statistic = -27
critical = -68

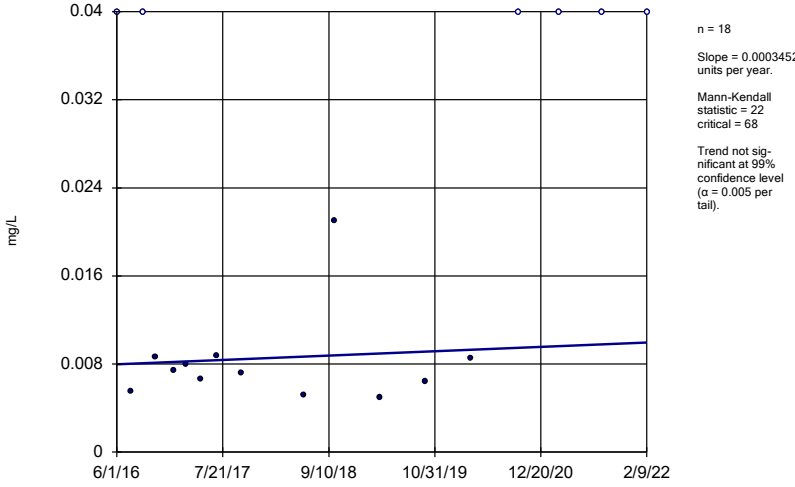
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.0003452 units per year.

Mann-Kendall statistic = 22
critical = 68

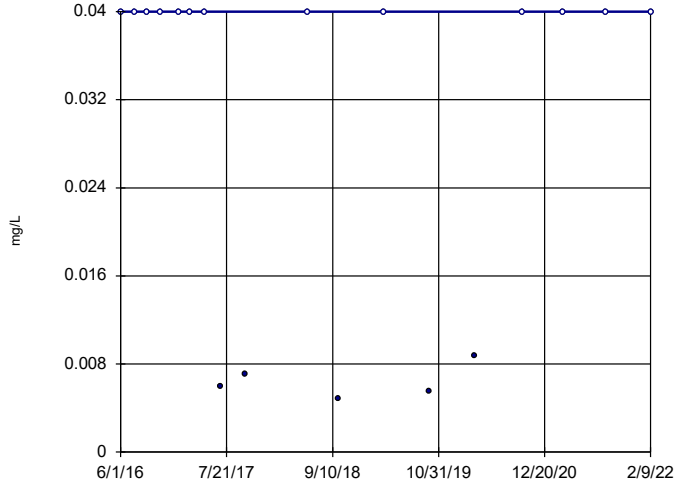
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -13
critical = -68

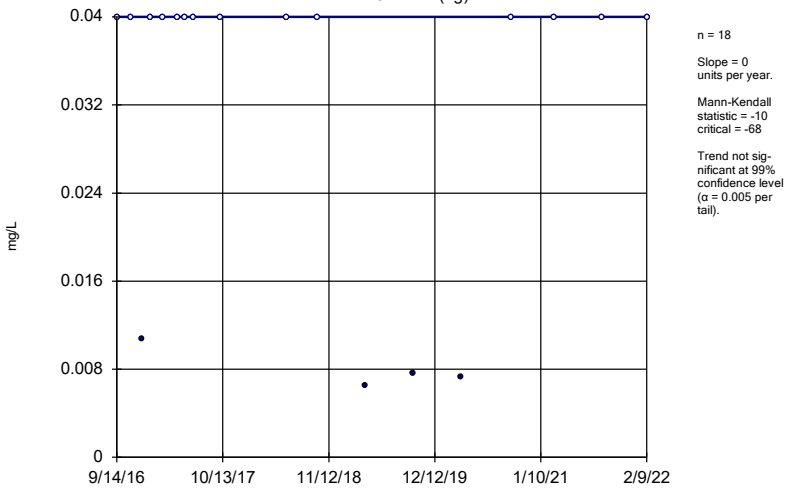
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -10
critical = -68

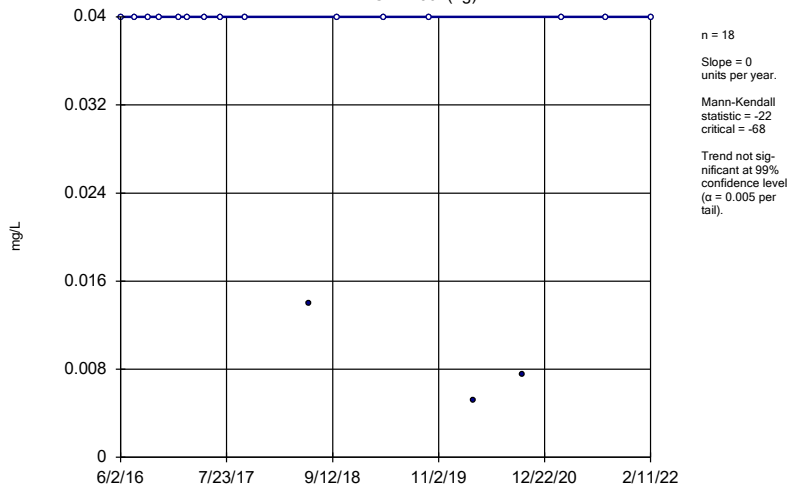
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -22
critical = -68

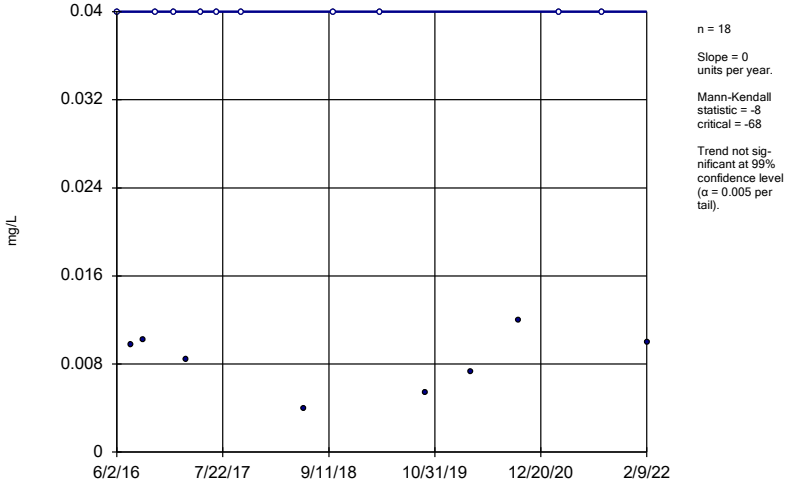
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -68

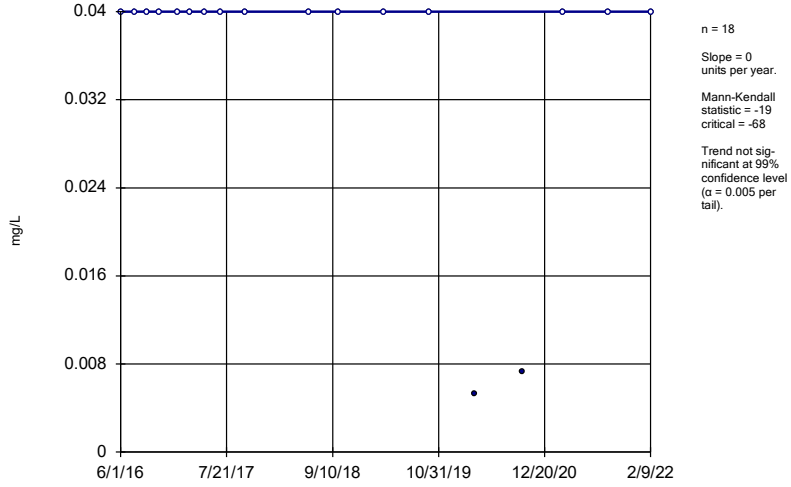
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 0 units per year.

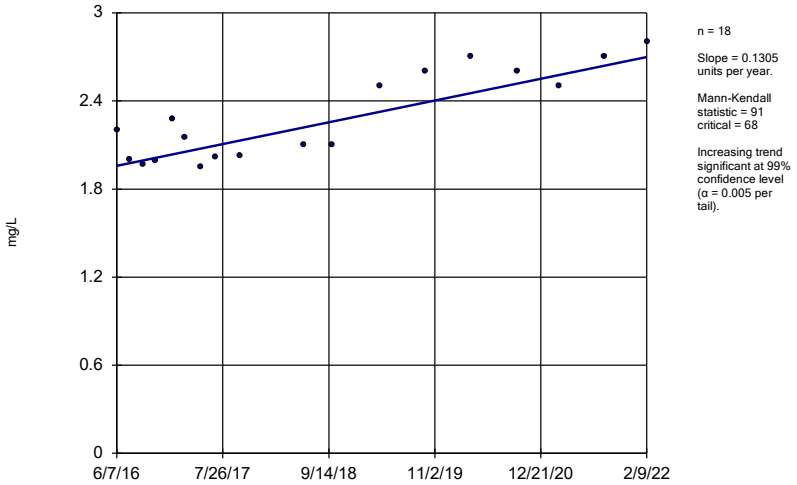
Mann-Kendall statistic = -19
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.1305 units per year.

Mann-Kendall statistic = 91
critical = 68

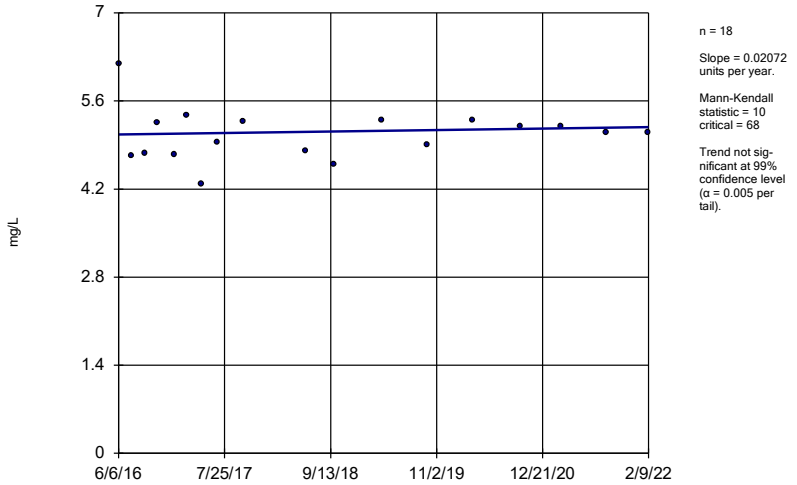
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = 0.02072 units per year.

Mann-Kendall statistic = 10
critical = 68

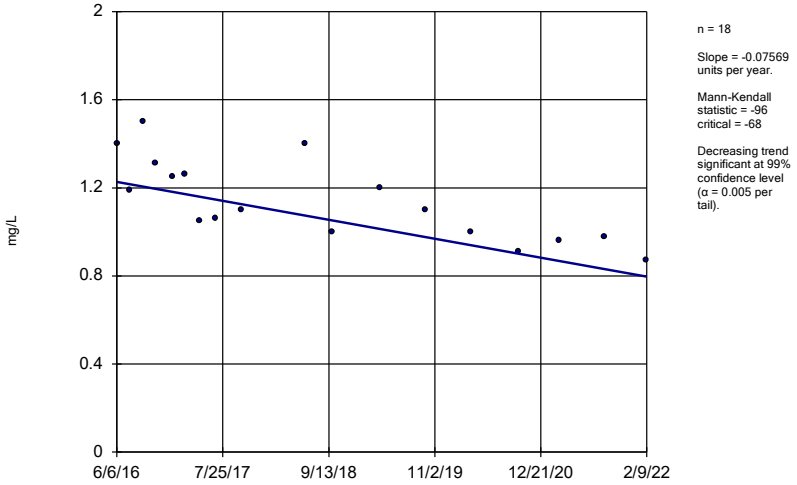
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = -0.07569 units per year.

Mann-Kendall statistic = -96
critical = -68

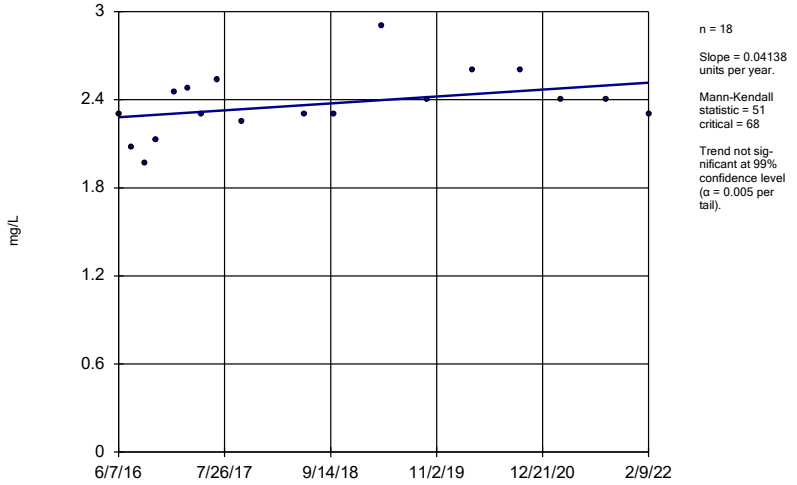
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0.04138 units per year.

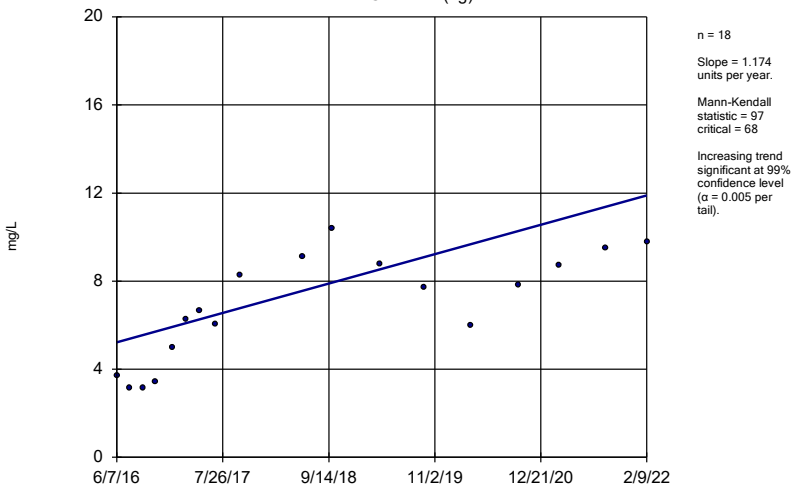
Mann-Kendall statistic = 51
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = 1.174 units per year.

Mann-Kendall statistic = 97 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

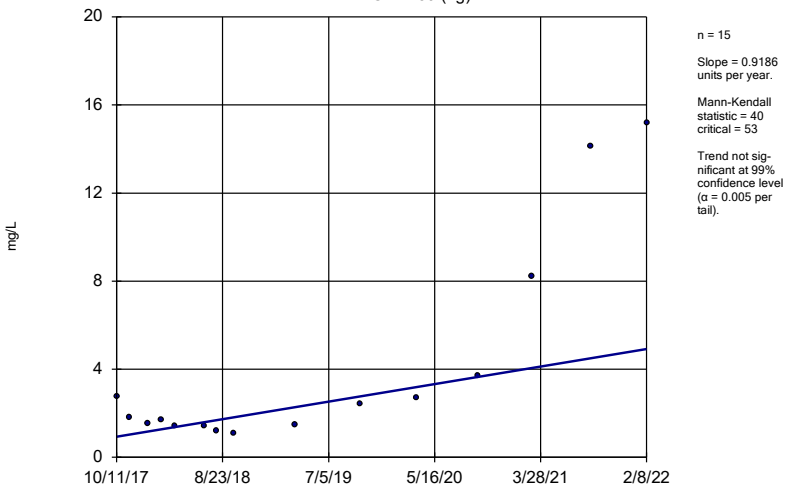
Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 0.9186 units per year.

Mann-Kendall statistic = 40 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

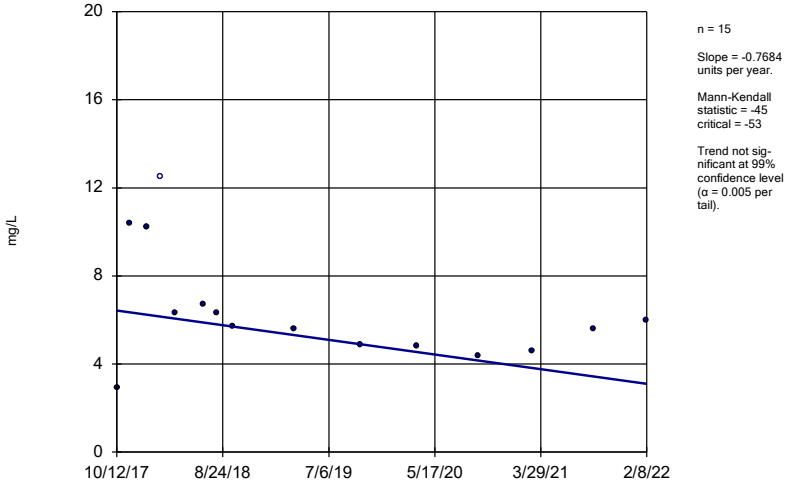
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -0.7684 units per year.

Mann-Kendall statistic = -45 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

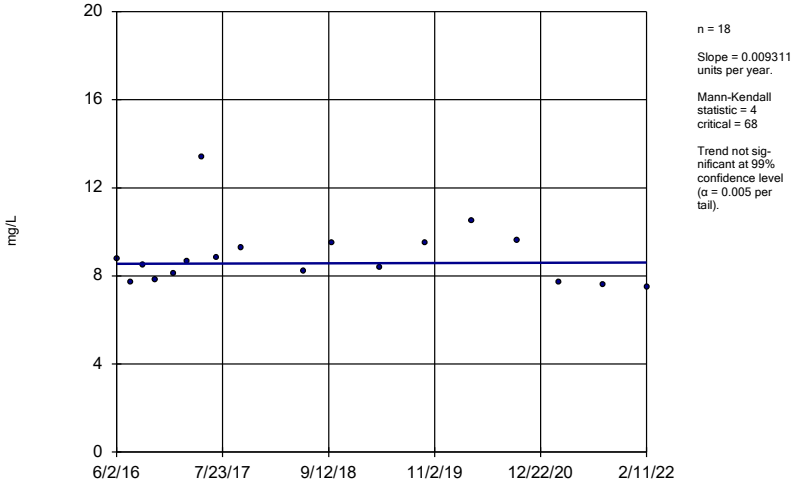
Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.009311 units per year.

Mann-Kendall statistic = 4 critical = 68

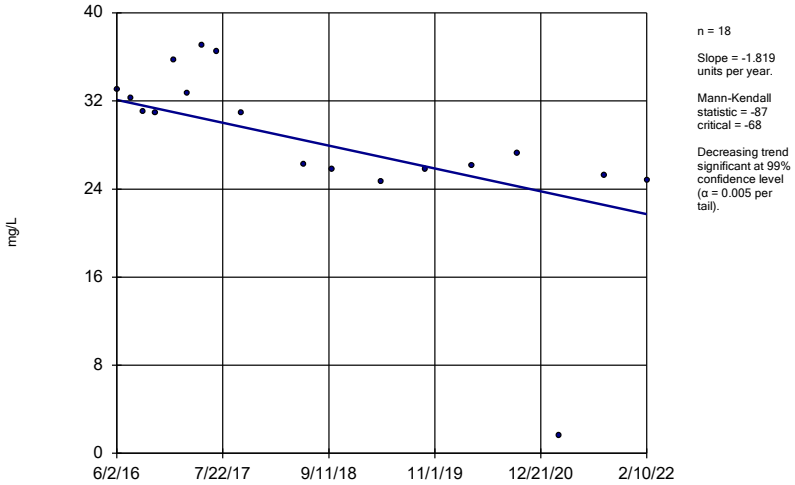
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -1.819 units per year.

Mann-Kendall statistic = -87 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

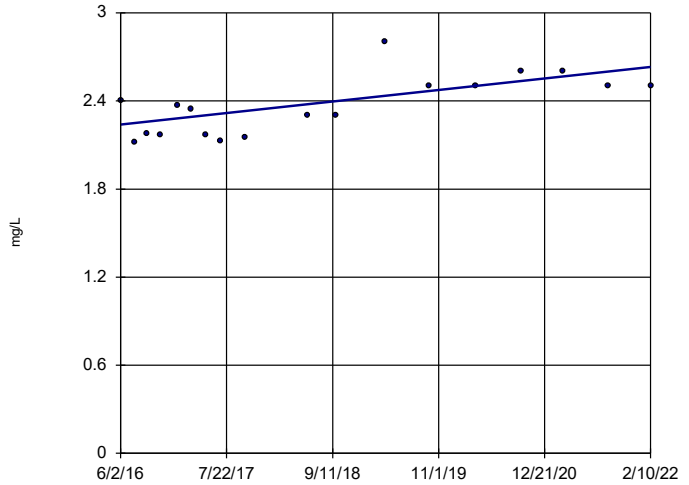
Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0.06854 units per year.

Mann-Kendall statistic = 66 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

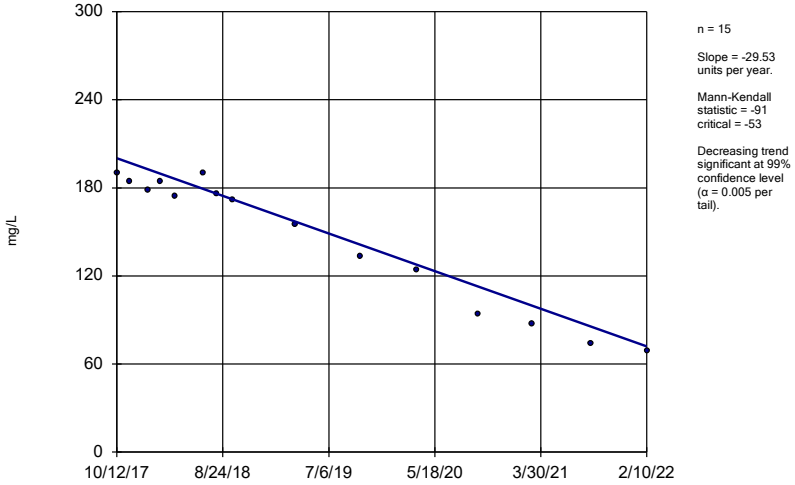
Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 15

Slope = -29.53 units per year.

Mann-Kendall statistic = -91 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

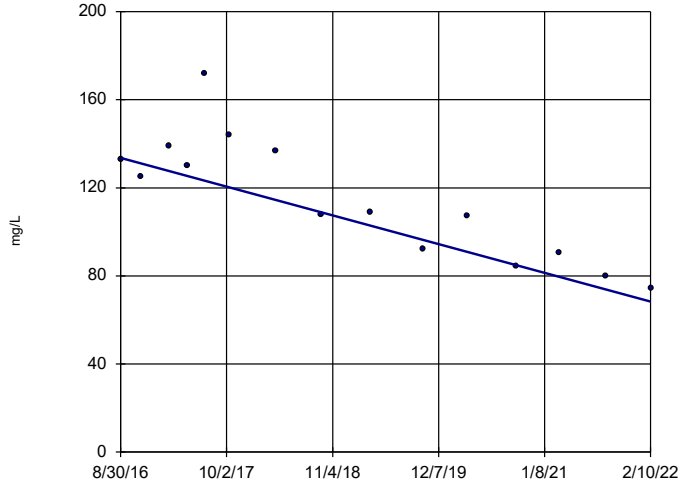
Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-42



n = 15

Slope = -11.96 units per year.

Mann-Kendall statistic = -71 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

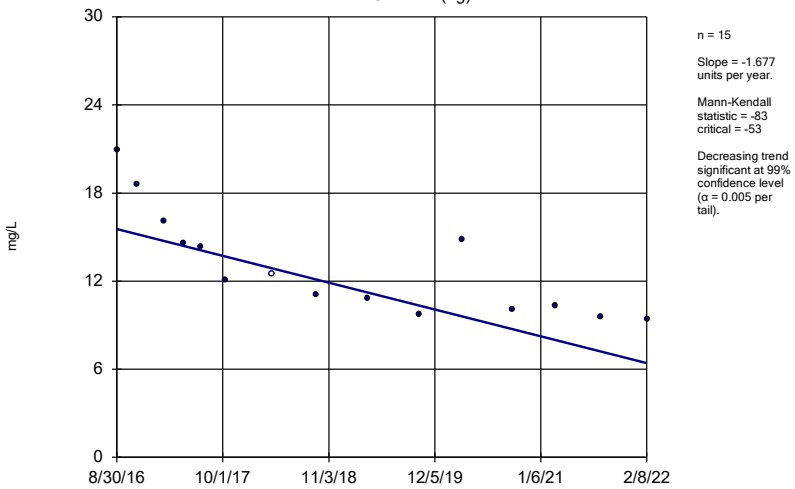
Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -1.677 units per year.

Mann-Kendall statistic = -83
critical = -53

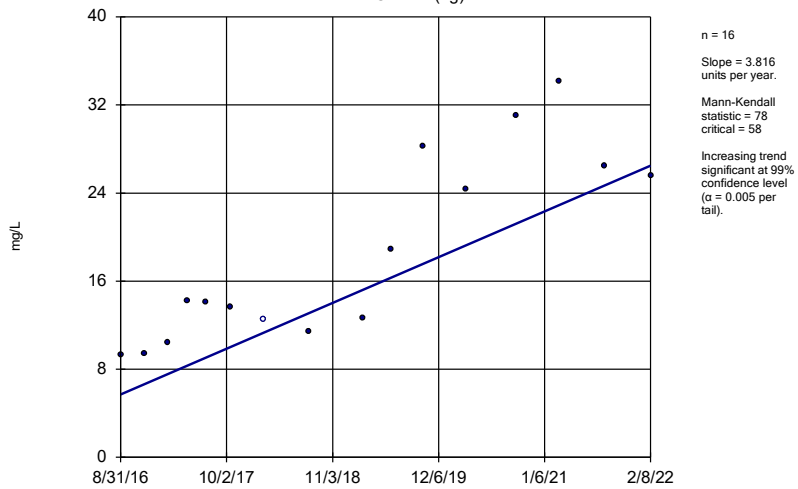
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 3.816 units per year.

Mann-Kendall statistic = 78
critical = 58

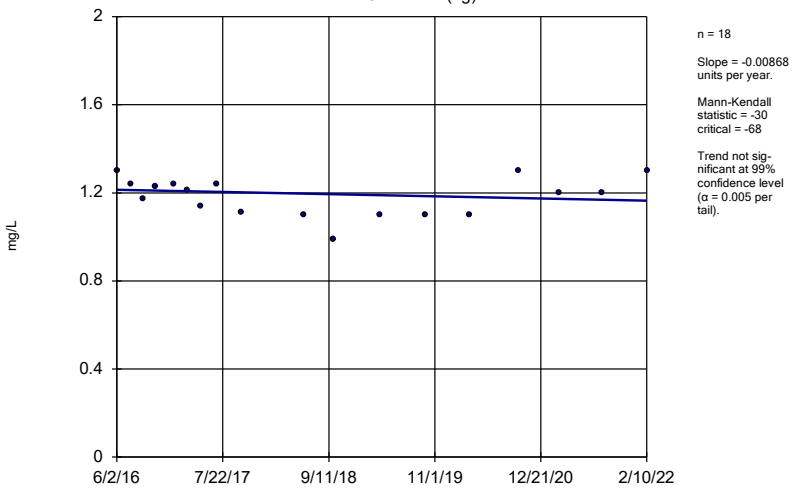
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = -0.00868 units per year.

Mann-Kendall statistic = -30
critical = -68

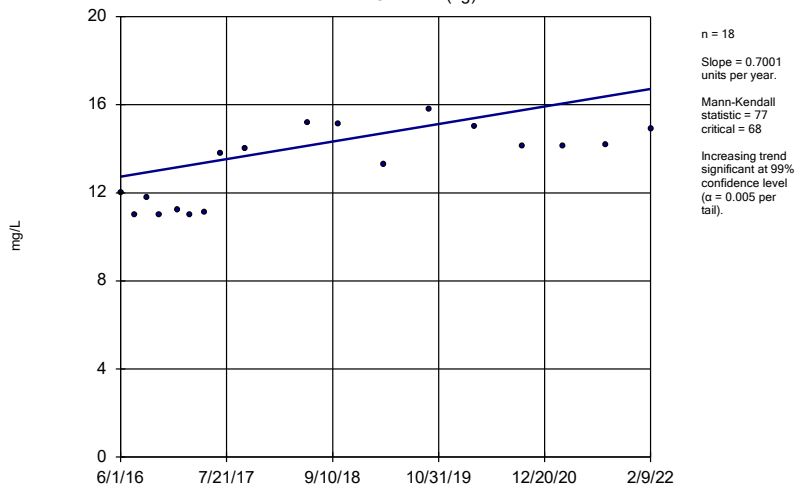
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.7001 units per year.

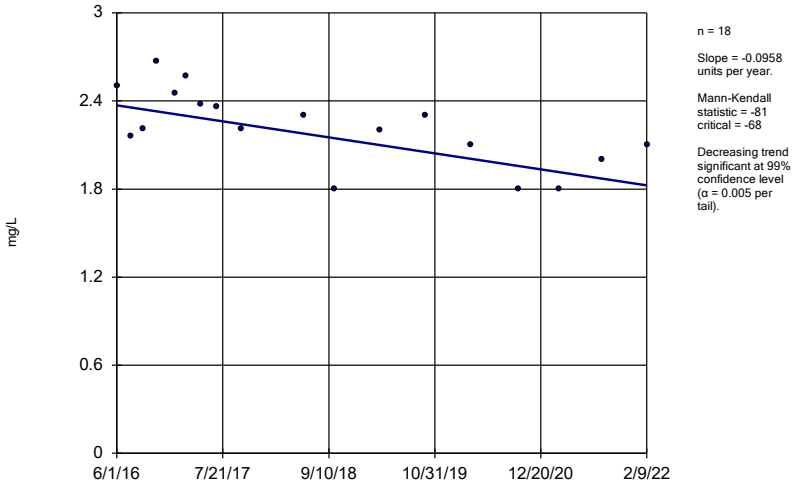
Mann-Kendall statistic = 77
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -0.0958 units per year.

Mann-Kendall statistic = -81 critical = -68

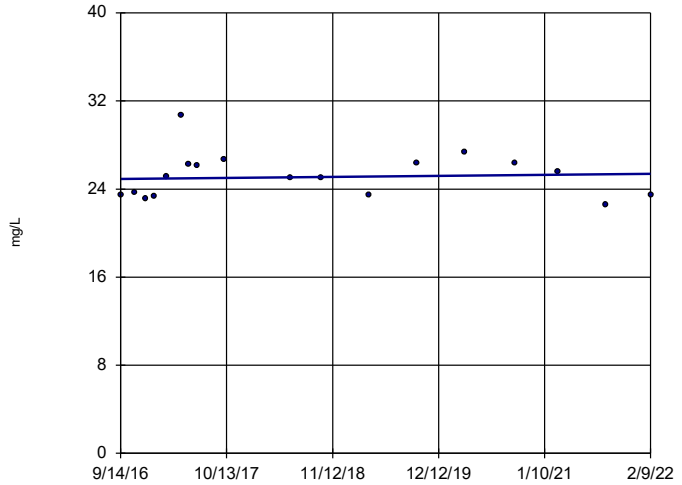
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = 0.08578 units per year.

Mann-Kendall statistic = 11 critical = 68

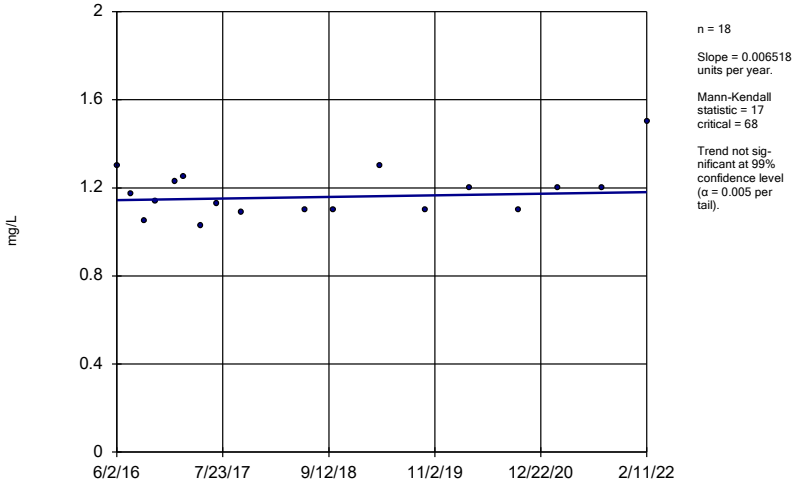
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 0.006518 units per year.

Mann-Kendall statistic = 17 critical = 68

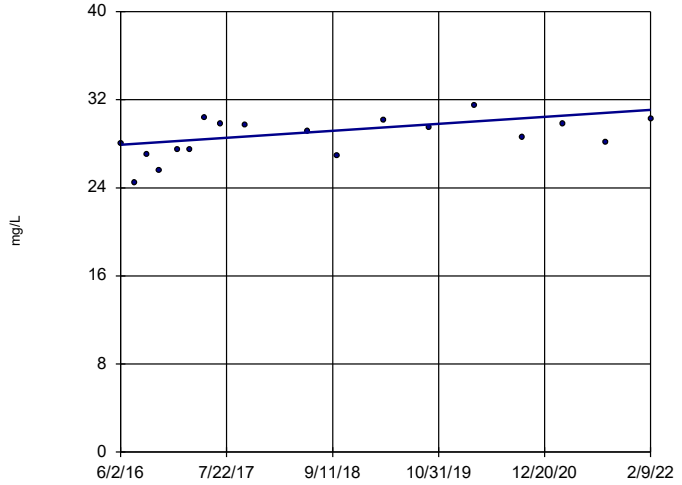
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 0.5552 units per year.

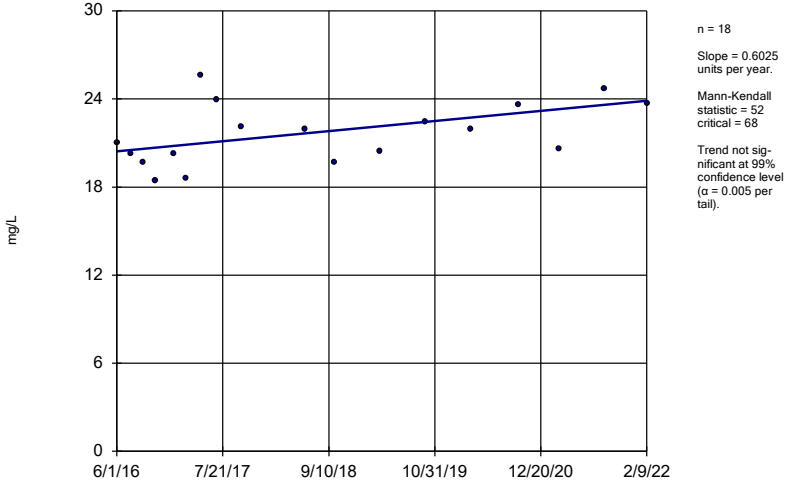
Mann-Kendall statistic = 59 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 0.6025 units per year.

Mann-Kendall statistic = 52 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

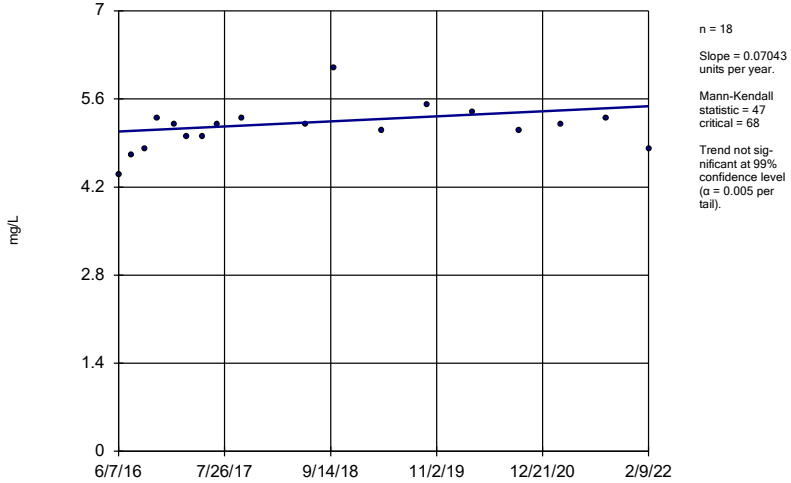
Constituent: Calcium Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.07043 units per year.

Mann-Kendall statistic = 47 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

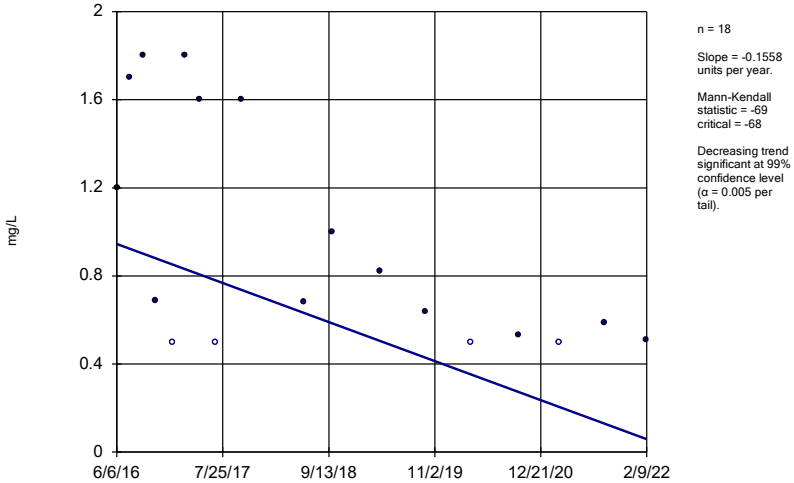
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = -0.1558 units per year.

Mann-Kendall statistic = -69 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

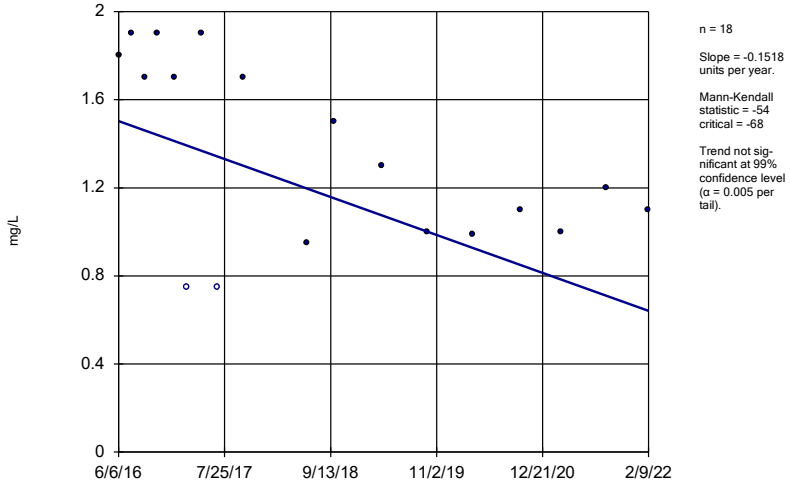
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = -0.1518 units per year.

Mann-Kendall statistic = -54 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

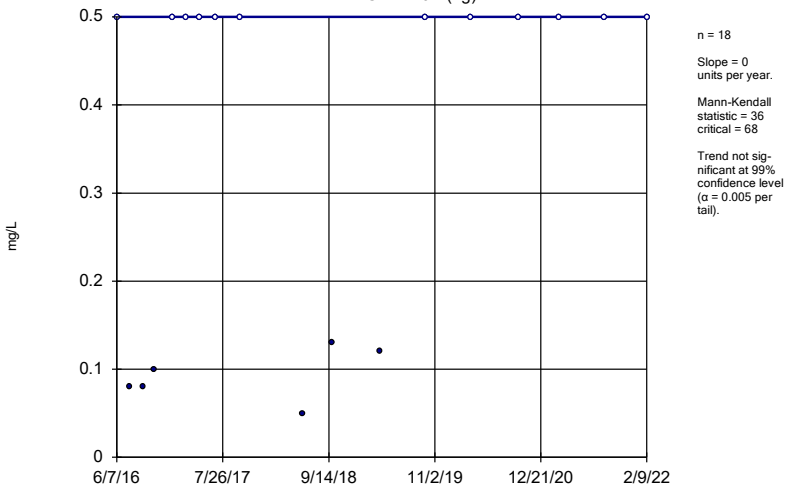
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 36 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

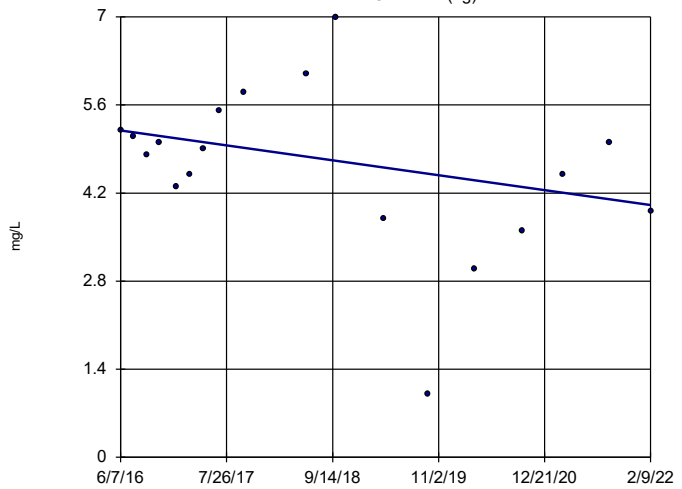
Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = -0.2086 units per year.

Mann-Kendall statistic = -31 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

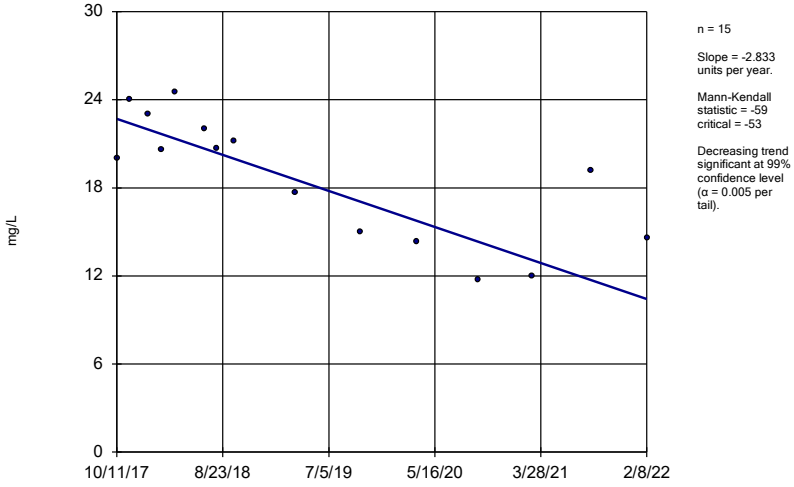
Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = -2.833 units per year.

Mann-Kendall statistic = -59 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

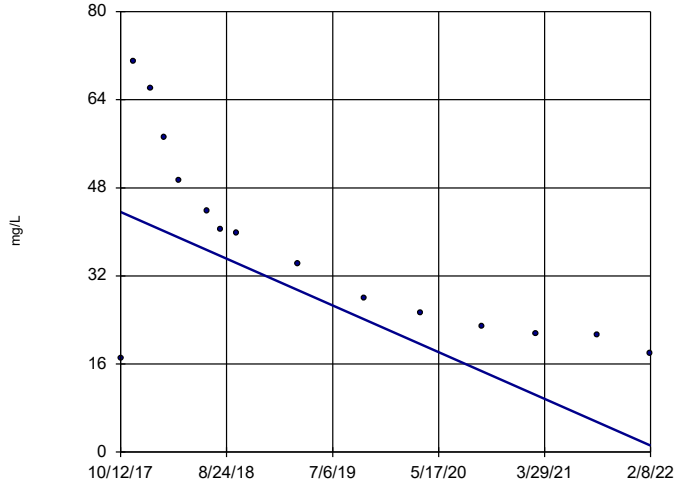
Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -9.797 units per year.

Mann-Kendall statistic = -77 critical = -53

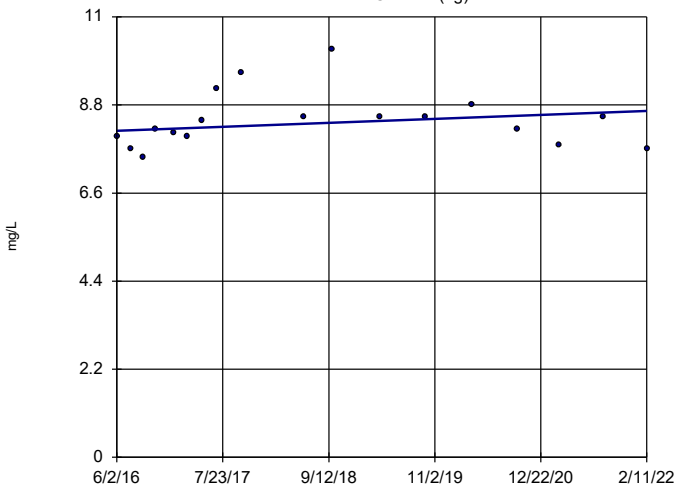
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.0866 units per year.

Mann-Kendall statistic = 30 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

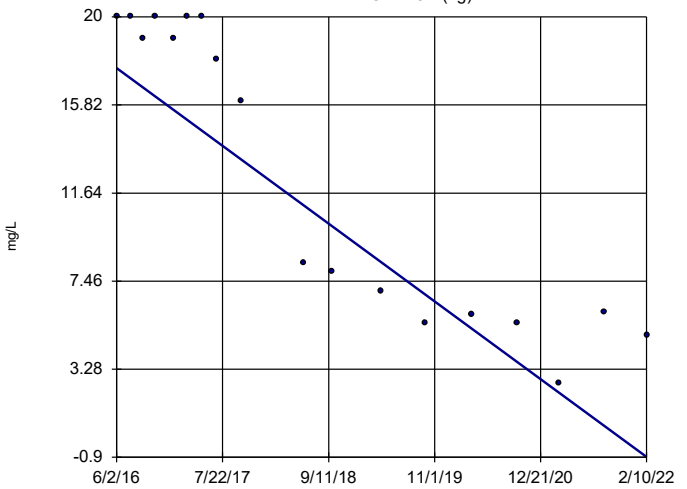
Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -3.238 units per year.

Mann-Kendall statistic = -119 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

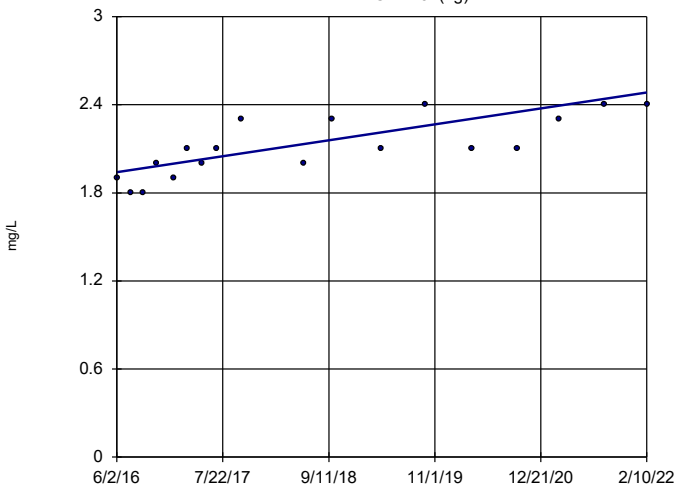
Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0.0955 units per year.

Mann-Kendall statistic = 100 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

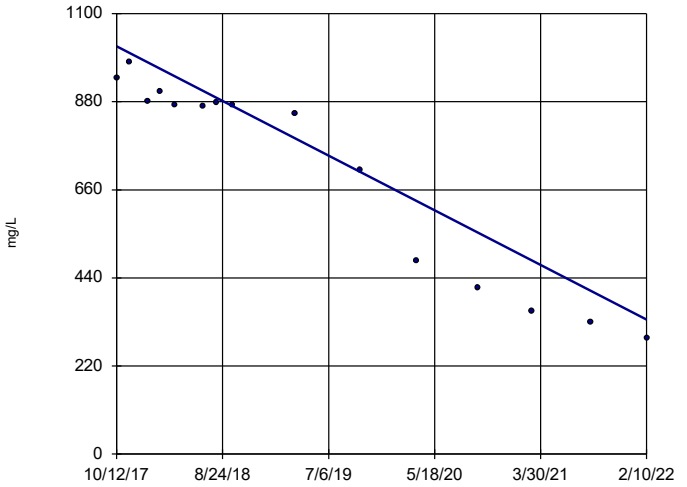
Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 15

Slope = -157.5 units per year.

Mann-Kendall statistic = -94 critical = -53

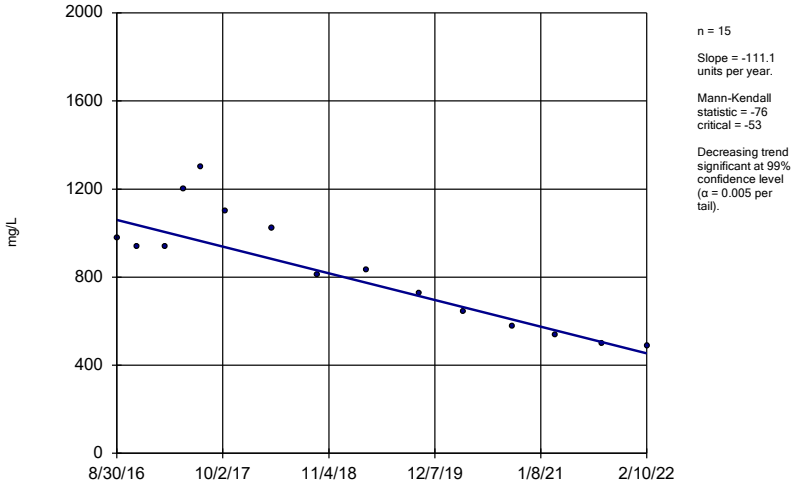
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42



n = 15

Slope = -111.1 units per year.

Mann-Kendall statistic = -76
critical = -53

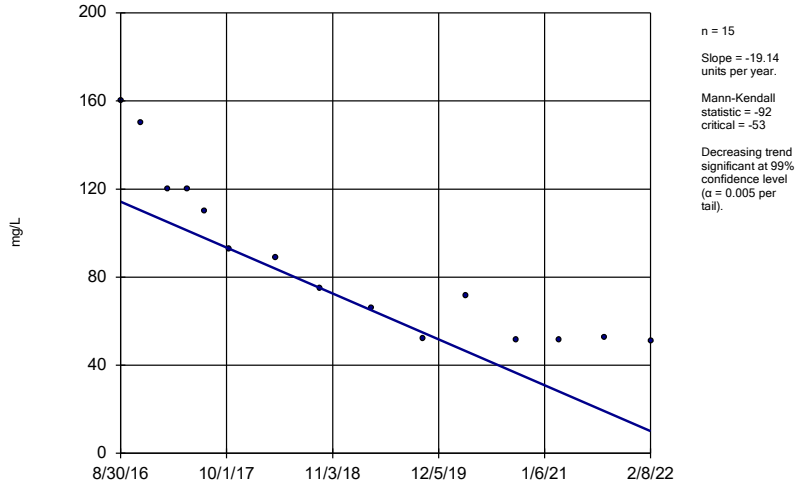
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -19.14 units per year.

Mann-Kendall statistic = -92
critical = -53

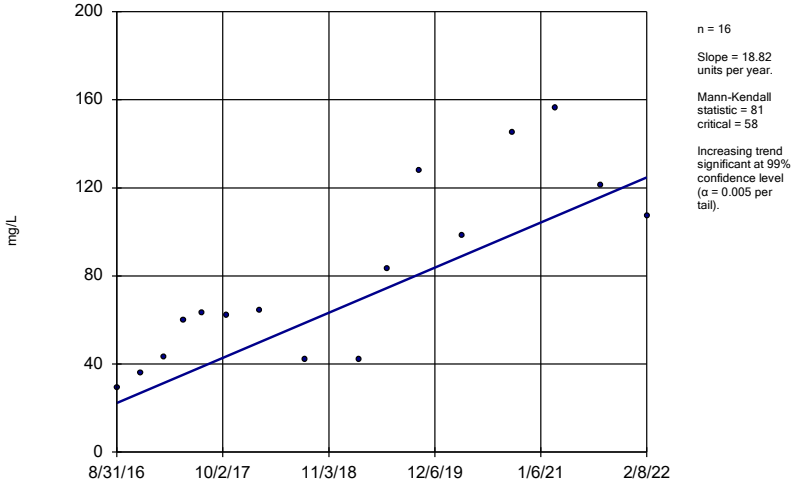
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 18.82 units per year.

Mann-Kendall statistic = 81
critical = 58

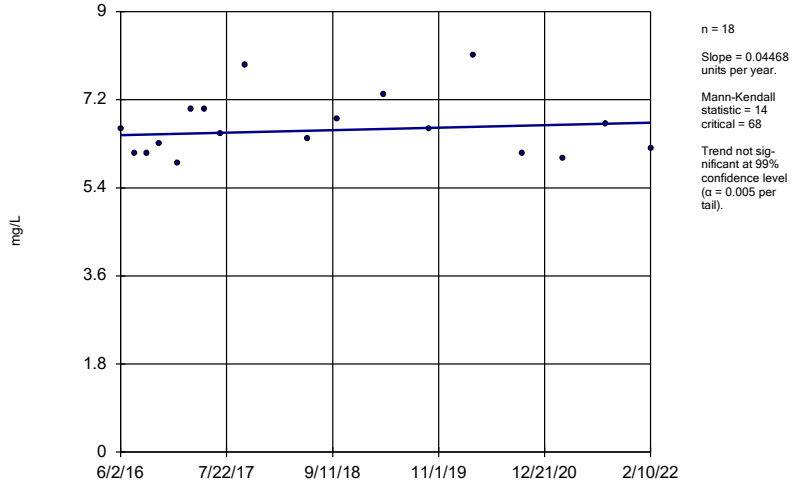
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = 0.04468 units per year.

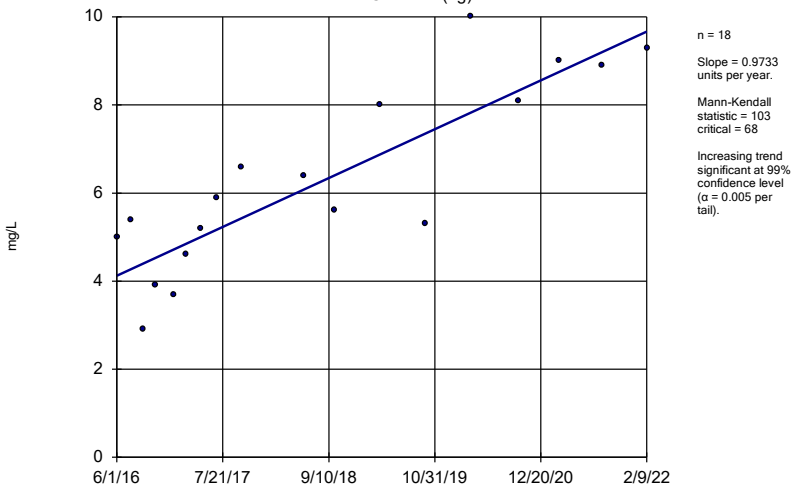
Mann-Kendall statistic = 14
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.9733 units per year.

Mann-Kendall statistic = 103
critical = 68

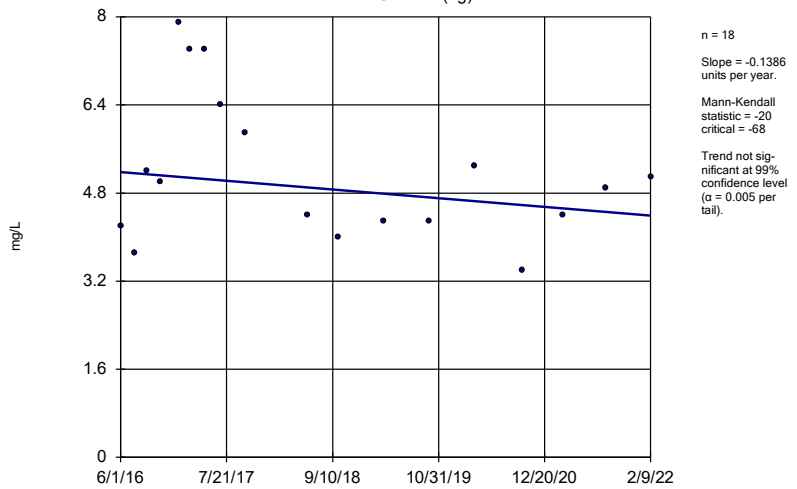
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -0.1386 units per year.

Mann-Kendall statistic = -20
critical = -68

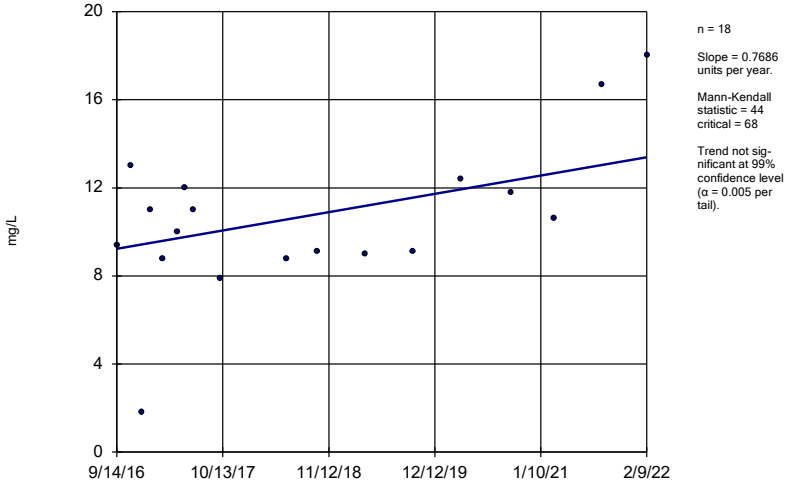
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = 0.7686 units per year.

Mann-Kendall statistic = 44
critical = 68

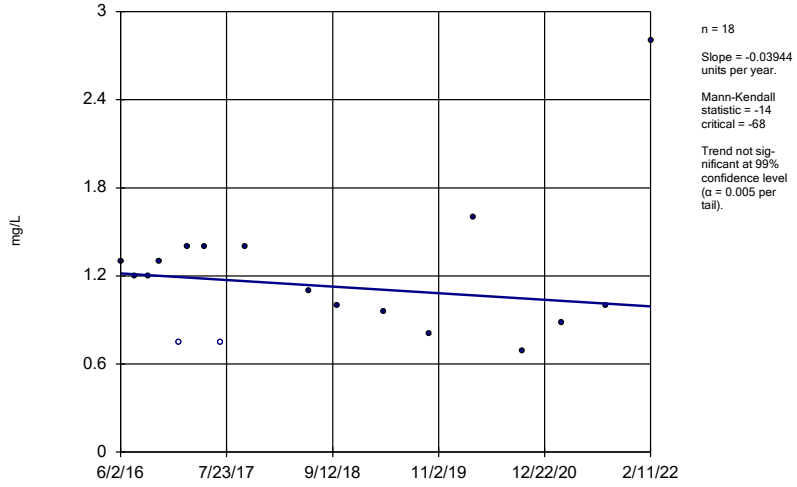
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = -0.03944 units per year.

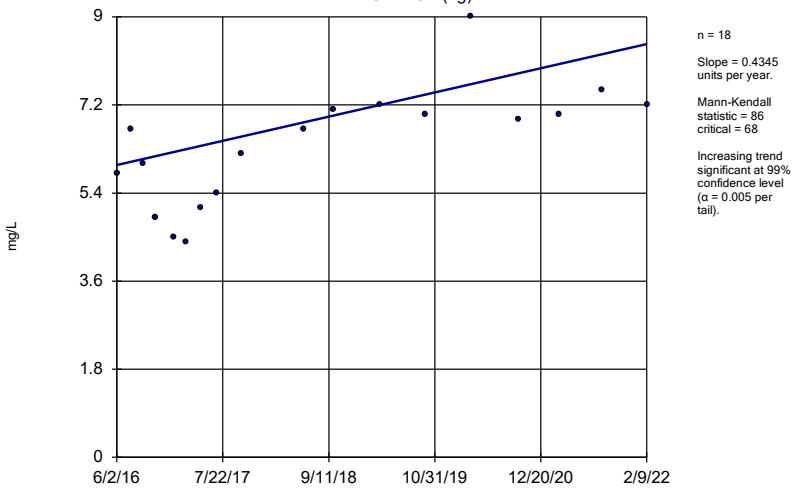
Mann-Kendall statistic = -14
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 0.4345 units per year.

Mann-Kendall statistic = 86
critical = 68

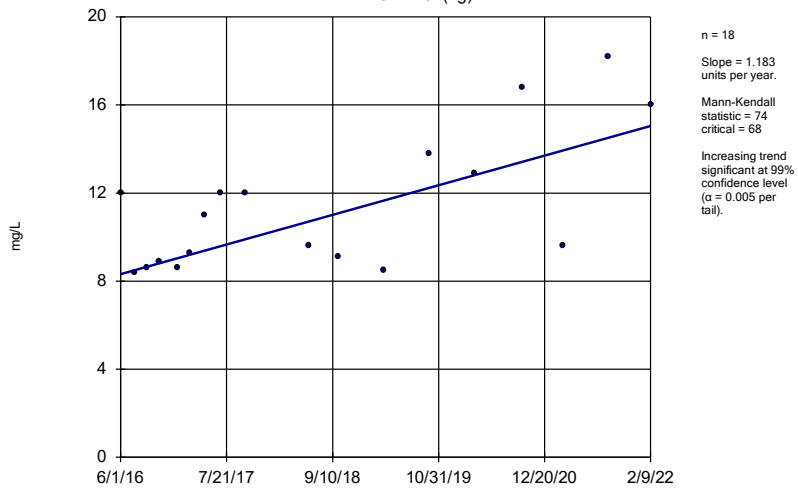
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 1.183 units per year.

Mann-Kendall statistic = 74
critical = 68

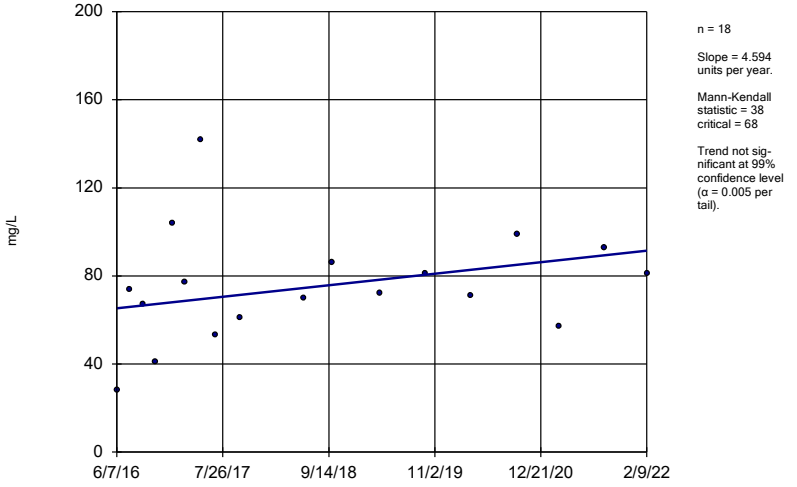
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 4.594 units per year.

Mann-Kendall statistic = 38
critical = 68

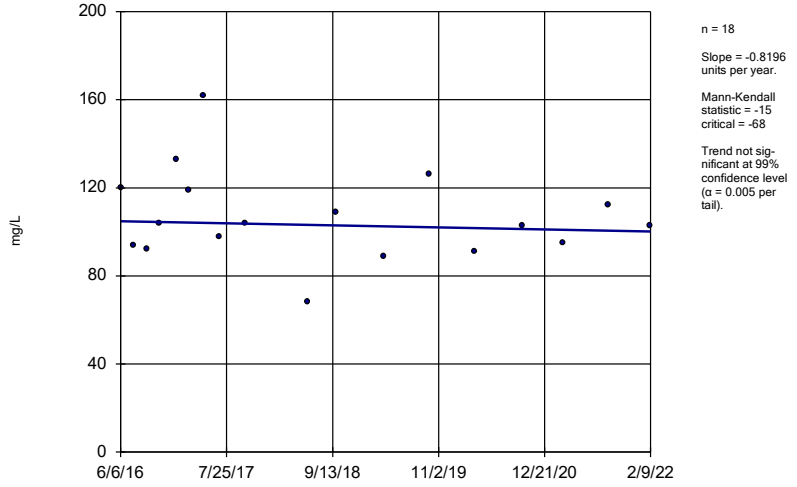
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = -0.8196 units per year.

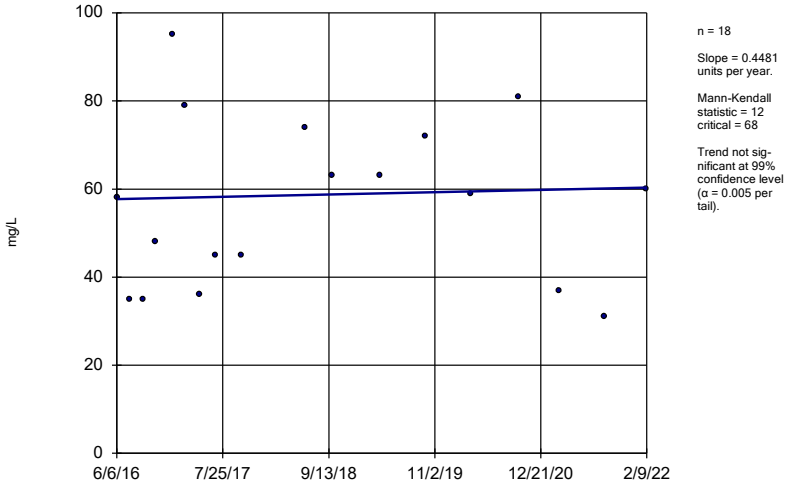
Mann-Kendall statistic = -15
critical = -68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = 0.4481 units per year.

Mann-Kendall statistic = 12 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

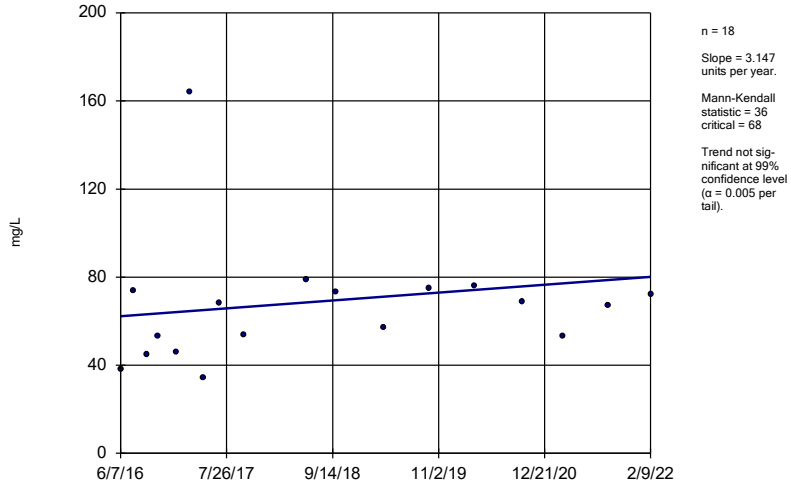
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 3.147 units per year.

Mann-Kendall statistic = 36 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

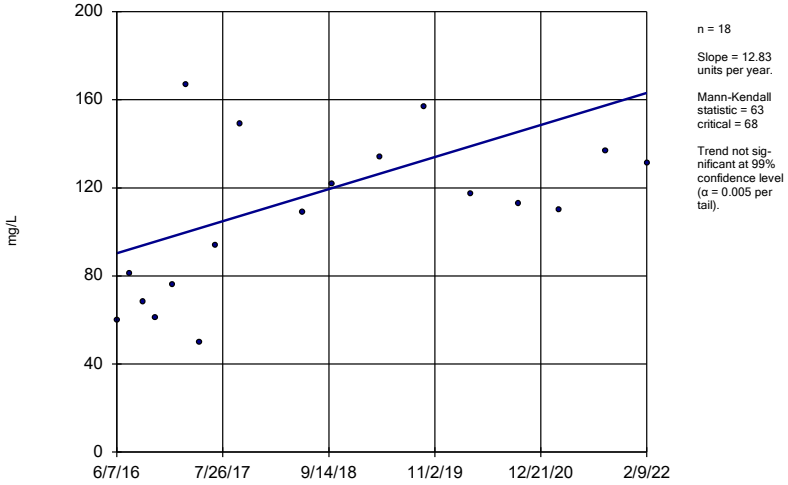
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = 12.83 units per year.

Mann-Kendall statistic = 63 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

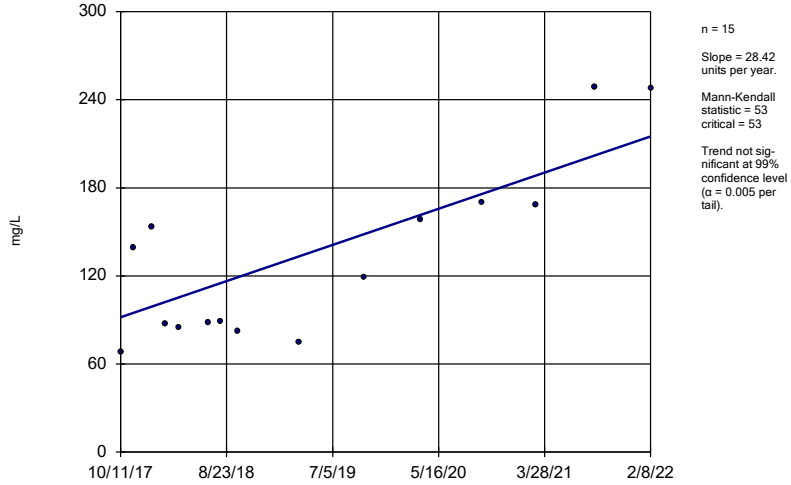
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 28.42 units per year.

Mann-Kendall statistic = 53 critical = 53

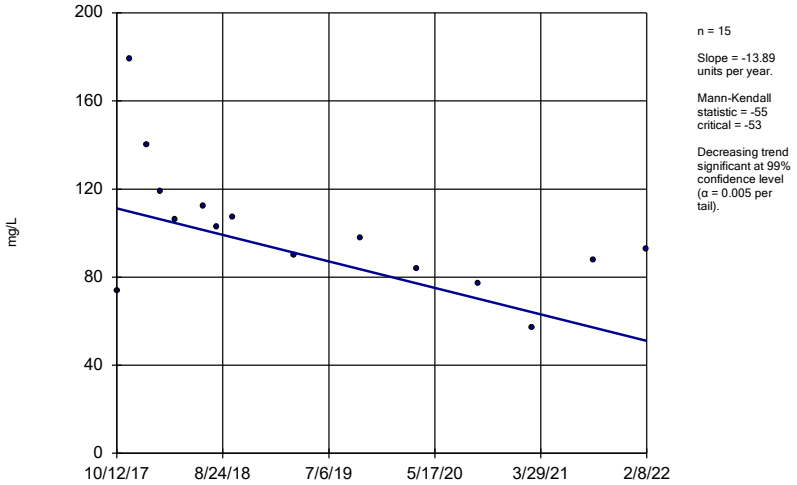
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -13.89 units per year.

Mann-Kendall statistic = -55 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

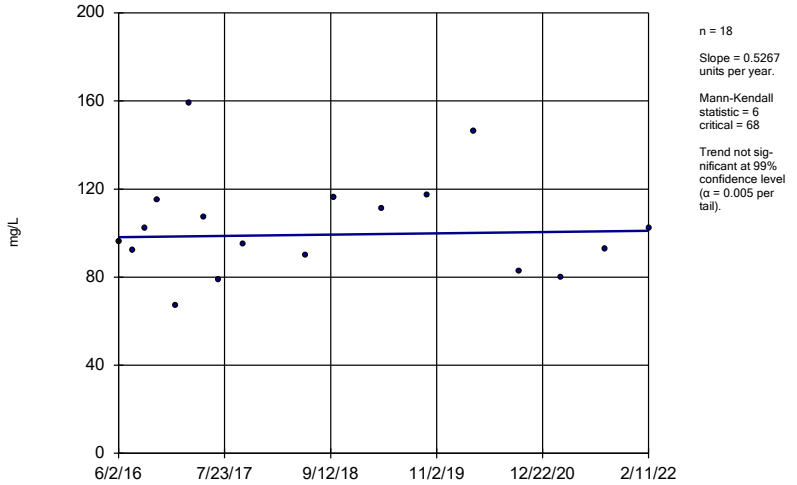
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.5267 units per year.

Mann-Kendall statistic = 6 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

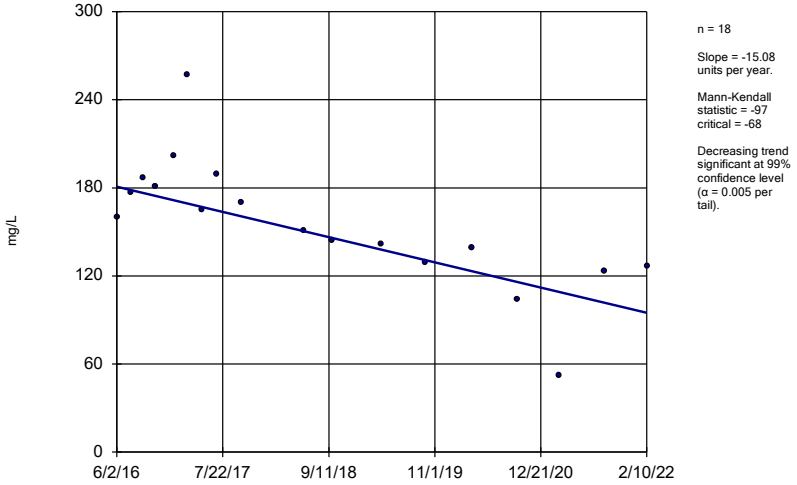
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -15.08 units per year.

Mann-Kendall statistic = -97 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

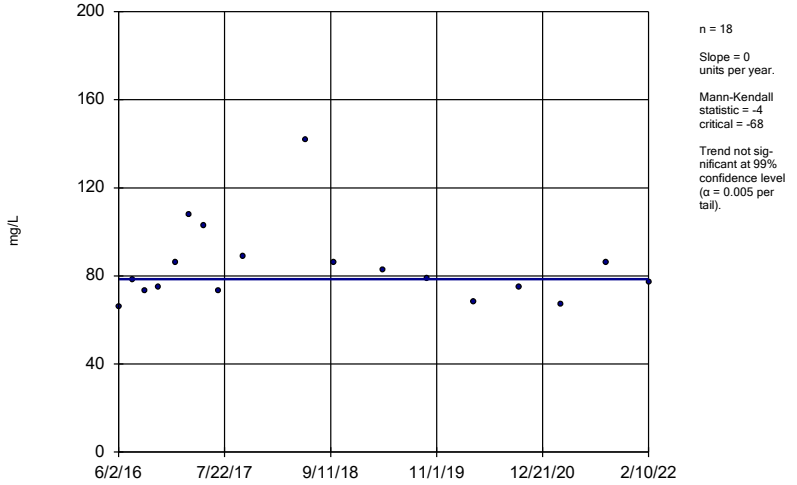
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -4 critical = -68

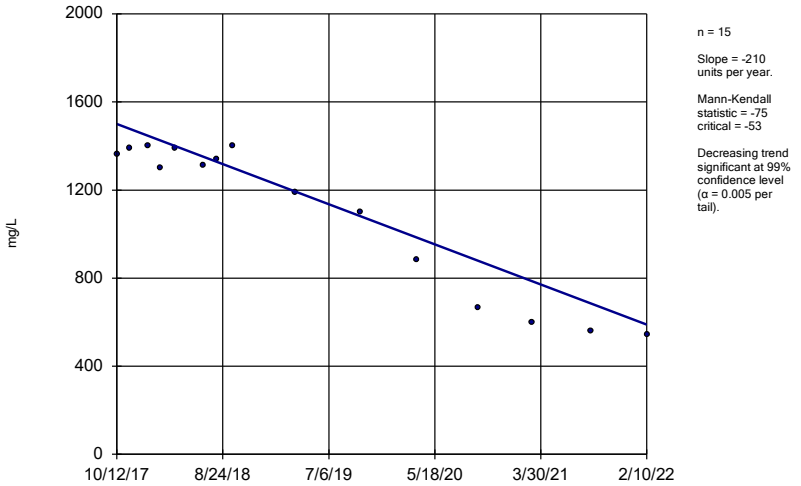
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-38



n = 15

Slope = -210 units per year.

Mann-Kendall statistic = -75 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

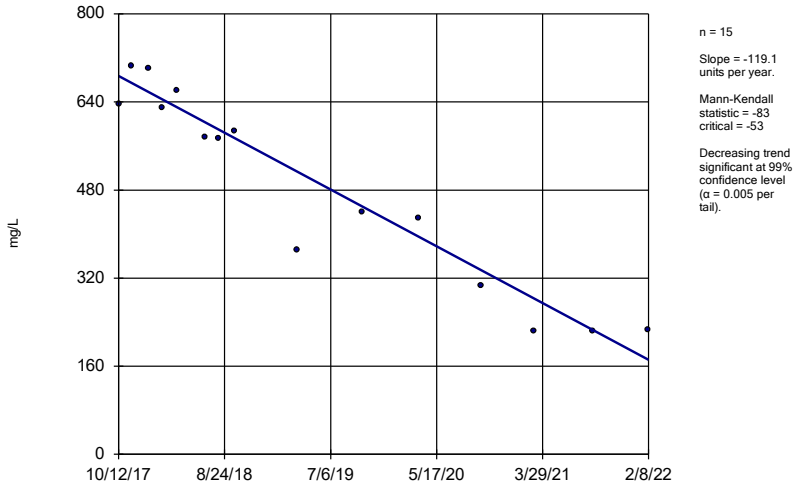
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-41



n = 15

Slope = -119.1 units per year.

Mann-Kendall statistic = -83 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

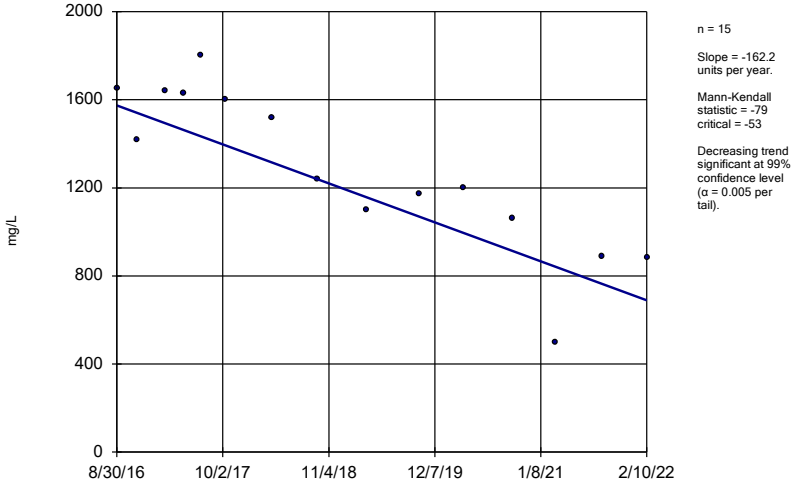
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-42



n = 15

Slope = -162.2 units per year.

Mann-Kendall statistic = -79 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

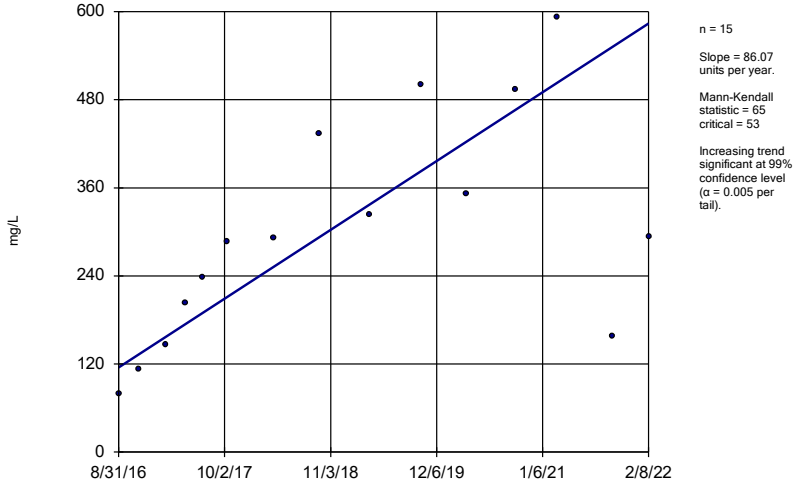
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-43



n = 15

Slope = 86.07 units per year.

Mann-Kendall statistic = 65 critical = 53

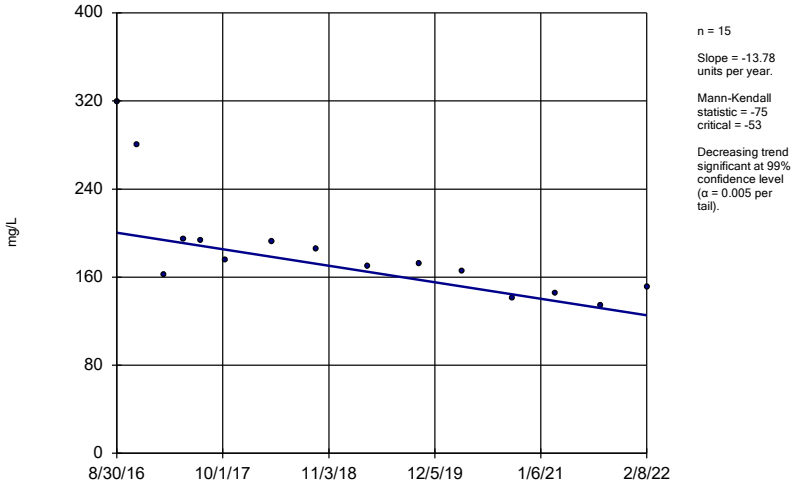
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -13.78 units per year.

Mann-Kendall statistic = -75 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

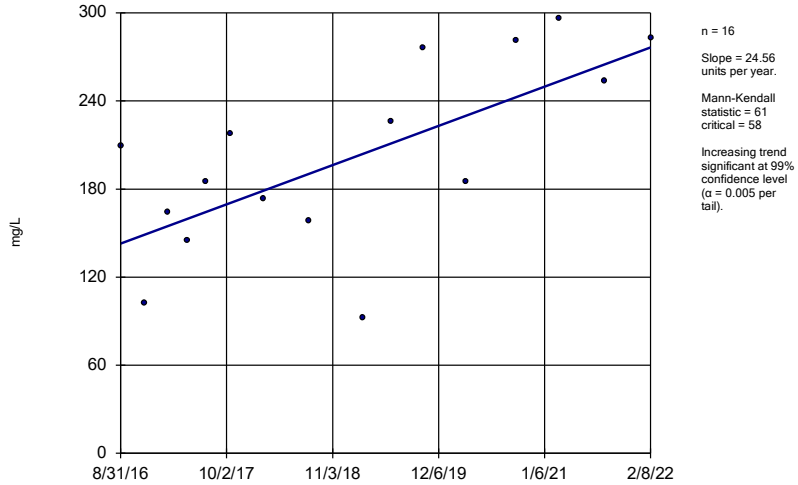
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 24.56 units per year.

Mann-Kendall statistic = 61 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

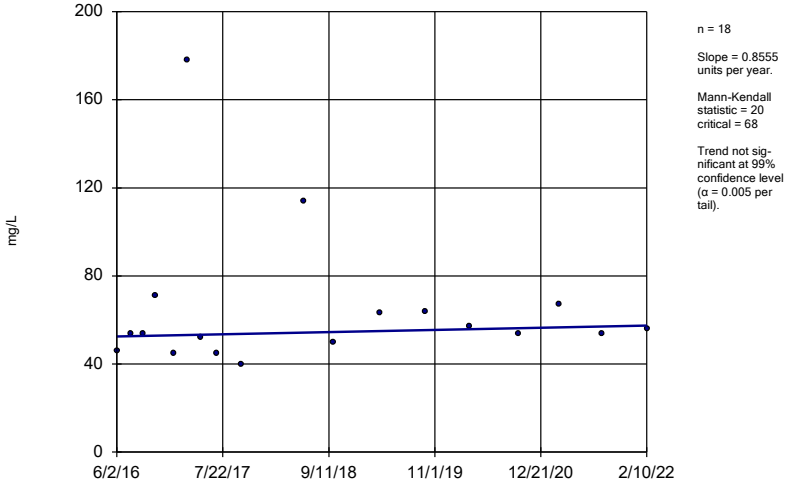
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = 0.8555 units per year.

Mann-Kendall statistic = 20 critical = 68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

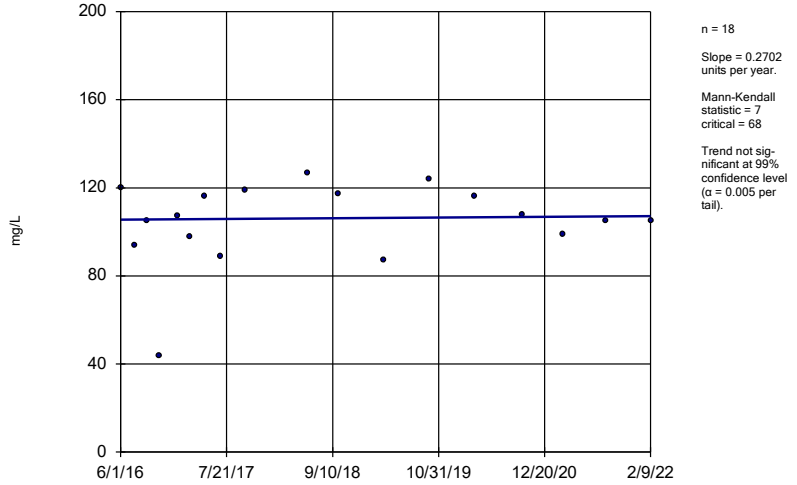
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.2702 units per year.

Mann-Kendall statistic = 7 critical = 68

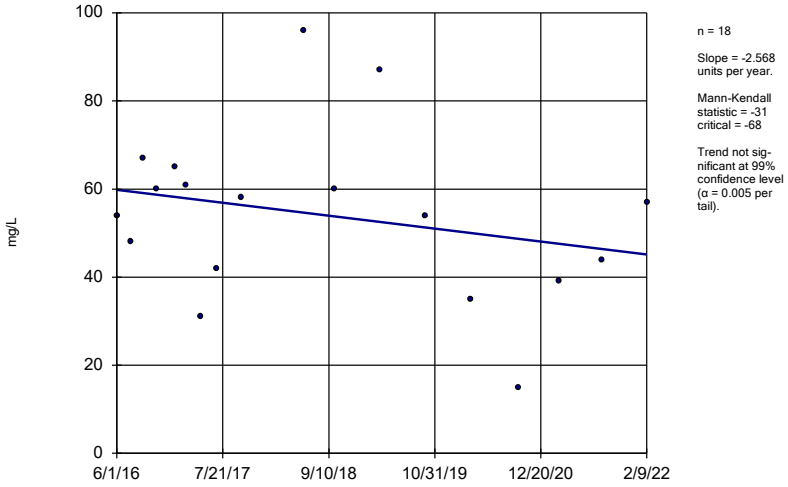
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -2.568 units per year.

Mann-Kendall statistic = -31 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

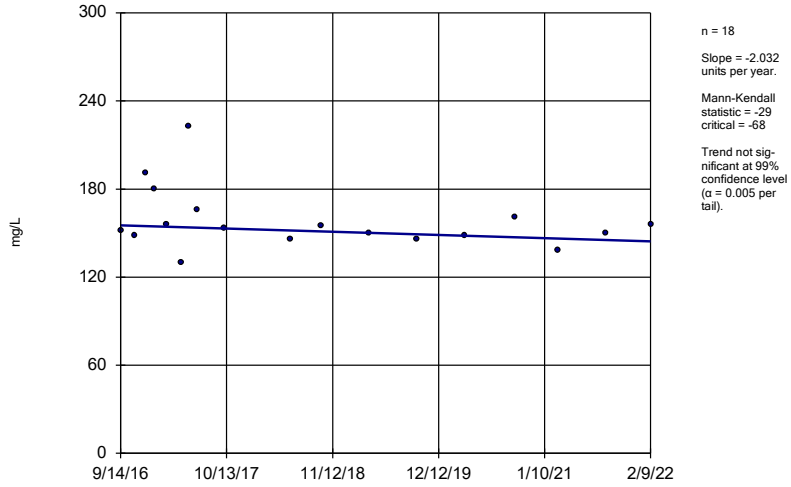
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = -2.032 units per year.

Mann-Kendall statistic = -29 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

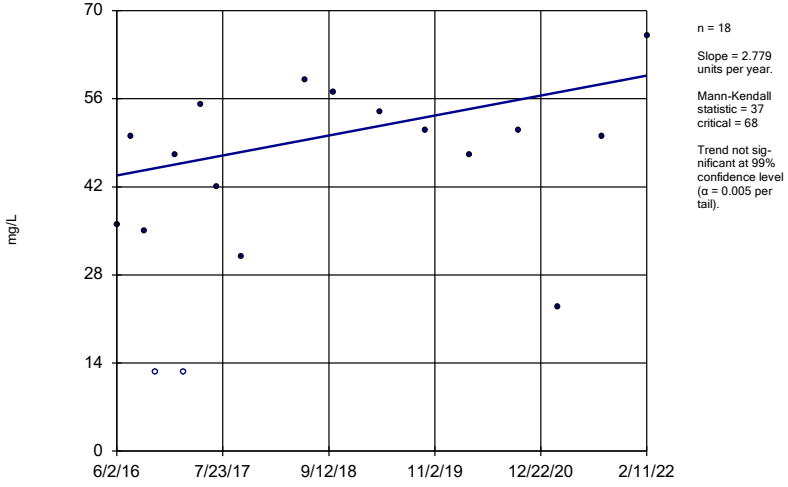
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 2.779 units per year.

Mann-Kendall statistic = 37 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

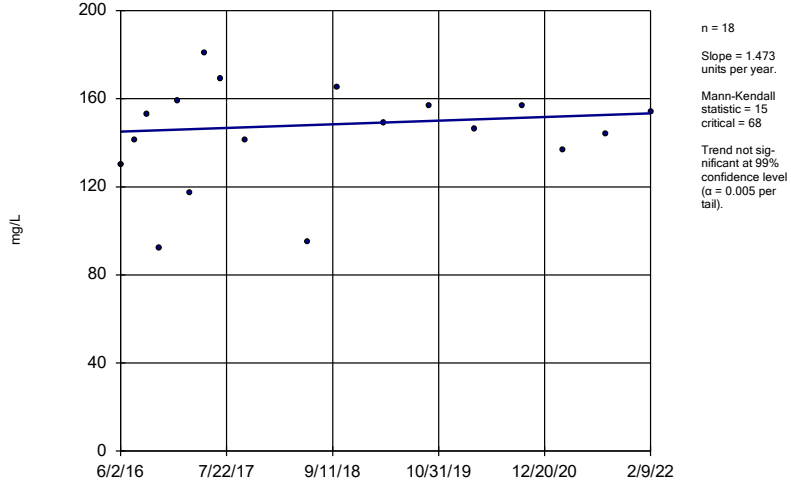
Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

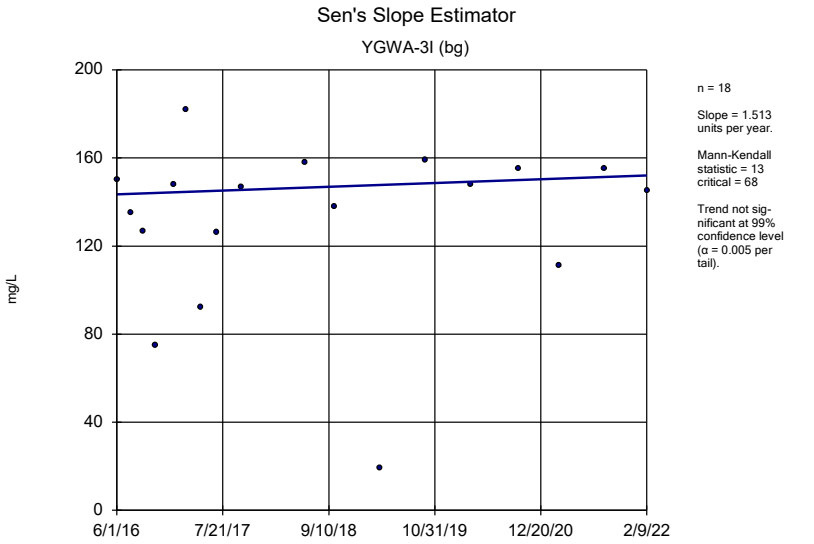
Slope = 1.473 units per year.

Mann-Kendall statistic = 15 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a	353	n/a	n/a	87.25	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	401	n/a	n/a	75.06	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	401	n/a	n/a	2.743	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	385	n/a	n/a	80.26	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a	385	n/a	n/a	95.58	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a	353	n/a	n/a	79.6	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	396	n/a	n/a	69.19	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a	380	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	400	n/a	n/a	67.5	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	355	n/a	n/a	84.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	380	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	309	n/a	n/a	93.2	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	344	n/a	n/a	60.17	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	383	n/a	n/a	91.91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	319	n/a	n/a	96.87	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES AMA-R6 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		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	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		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**YGWC-38**	**0.005381**	**0.004128**	**0.004**	**Yes**	**16**	**0.004494**	**0.001209**	**0**	**None**	**x^4**	**0.01**	**Param.**
Selenium (mg/L)	**YGWC-38**	**0.249**	**0.073**	**0.05**	**Yes**	**16**	**0.1613**	**0.07941**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Selenium (mg/L)	**PZ-37**	**0.2916**	**0.2149**	**0.05**	**Yes**	**13**	**0.2532**	**0.05155**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	7	0.005681	0.008573	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	YAMW-4	0.001179	0.0004933	0.006	No	5	0.001674	0.001225	40	Kaplan-Meier	ln(x)	0.01	Param.
Antimony (mg/L)	YAMW-5	0.003	0.00033	0.006	No	5	0.002466	0.001194	80	Kaplan-Meier	No	0.031	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	18	0.002592	0.0009432	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.00063	0.006	No	15	0.002403	0.001051	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	15	0.002893	0.0004131	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	15	0.002835	0.0006378	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	15	0.002821	0.0006946	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	15	0.002709	0.0007763	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	7	0.002627	0.0009865	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	13	0.002673	0.0008263	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SA	0.003	0.0009	0.006	No	18	0.002883	0.000495	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0014	0.006	No	18	0.004	0.006144	44.44	None	No	0.01	NP (normality)
Arsenic (mg/L)	YAMW-1	0.005	0.0023	0.01	No	8	0.004662	0.0009546	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.002818	0.0001089	0.01	No	5	0.002878	0.00206	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YAMW-5	0.002618	0.0006151	0.01	No	5	0.00297	0.001924	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	20	0.004685	0.0009922	90	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.002013	0.000835	0.01	No	16	0.001654	0.001397	12.5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.00062	0.01	No	16	0.002964	0.002135	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.002976	0.00149	0.01	No	16	0.002311	0.001241	12.5	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.00099	0.01	No	16	0.004025	0.001777	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	15	0.004164	0.001732	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00069	0.01	No	8	0.003556	0.002016	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0008	0.01	No	13	0.002357	0.001857	30.77	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-24SA	0.005	0.0024	0.01	No	20	0.004695	0.0009501	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0014	0.01	No	20	0.003957	0.00186	75	None	No	0.01	NP (NDs)
Barium (mg/L)	YAMW-1	0.0704	0.0286	2	No	8	0.0495	0.01972	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-2	0.009472	0.006728	2	No	5	0.0081	0.0008185	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.0286	0.0005986	2	No	5	0.01086	0.008882	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YAMW-5	0.05689	0.02631	2	No	5	0.0416	0.009127	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-23S	0.04635	0.03106	2	No	20	0.03871	0.01347	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-38	0.02311	0.01783	2	No	16	0.02047	0.004062	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02906	0.02034	2	No	16	0.0247	0.006706	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04468	0.03077	2	No	16	0.03773	0.01069	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.034	0.01762	2	No	16	0.02581	0.01259	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07861	0.0694	2	No	15	0.07401	0.0068	0	None	No	0.01	Param.
Barium (mg/L)	PZ-35	0.074	0.032	2	No	8	0.04763	0.01732	0	None	No	0.004	NP (normality)
Barium (mg/L)	PZ-37	0.05511	0.03813	2	No	13	0.04662	0.01142	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SA	0.025	0.019	2	No	20	0.02103	0.003574	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04377	0.03278	2	No	20	0.03828	0.009683	0	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000058	0.004	No	8	0.0003354	0.0001982	50	None	No	0.004	NP (normality)
Beryllium (mg/L)	YAMW-2	0.0005	0.000051	0.004	No	5	0.000238	0.0002393	40	None	No	0.031	NP (normality)
Beryllium (mg/L)	YAMW-5	0.00017	0.000092	0.004	No	6	0.000131	0.00002839	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00023	0.000081	0.004	No	20	0.0002108	0.000176	25	None	No	0.01	NP (normality)
Beryllium (mg/L)	**YGWC-38**	**0.005381**	**0.004128**	**0.004**	**Yes**	**16**	**0.004494**	**0.001209**	**0**	**None**	**x^4**	**0.01**	**Param.**
Beryllium (mg/L)	YGWC-41	0.0037	0.0016	0.004	No	16	0.0028	0.0009737	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	16	0.0003416	0.0002115	62.5	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00053	0.00029	0.004	No	16	0.0004075	0.0001423	37.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00015	0.0001	0.004	No	15	0.00014	0.0001009	6.667	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-35	0.000479	0.000269	0.004	No	9	0.0004122	0.000117	22.22	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0004733	0.0002084	0.004	No	13	0.0004062	0.0002152	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	YGWC-24SA	0.00016	0.0001	0.004	No	20	0.000178	0.0001413	15	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003309	0.000206	0.004	No	20	0.0002685	0.0001099	5	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00013	0.005	No	8	0.0002938	0.0001734	37.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	YAMW-5	0.0002574	0.0001586	0.005	No	5	0.000208	0.0000295	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	20	0.0004785	0.00009615	95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.0029	0.0013	0.005	No	16	0.002194	0.0007141	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-41	0.0005	0.00015	0.005	No	16	0.0002913	0.0001516	31.25	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	16	0.0003919	0.0001608	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	15	0.0004713	0.000111	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	8	0.0004575	0.0001202	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0007228	0.000308	0.005	No	13	0.0005438	0.0002744	15.38	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	YGWC-36A	0.0005	0.00017	0.005	No	20	0.000269	0.0001585	30	None	No	0.01	NP (normality)
Chromium (mg/L)	YAMW-1	0.005	0.00058	0.1	No	6	0.001563	0.001702	16.67	None	No	0.0155	NP (normality)
Chromium (mg/L)	YAMW-2	0.002983	0.00002161	0.1	No	5	0.002202	0.001797	20	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	5	0.004114	0.001981	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	5	0.00432	0.001521	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.0008	0.1	No	16	0.003509	0.002005	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	16	0.004447	0.001512	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	16	0.004712	0.001152	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	16	0.004208	0.001711	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00071	0.1	No	16	0.003911	0.001949	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.0021	0.0014	0.1	No	14	0.001971	0.0009059	7.143	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-35	0.005	0.0006	0.1	No	6	0.002185	0.002192	33.33	None	No	0.0155	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0017	0.1	No	13	0.0042	0.001532	76.92	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SA	0.005	0.0011	0.1	No	16	0.004259	0.001594	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0013	0.1	No	16	0.004155	0.001615	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YAMW-1	0.02551	0.007375	0.035	No	9	0.01644	0.009964	22.22	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.002488	0.0002417	0.035	No	5	0.001154	0.0007745	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-4	0.001001	0.0001991	0.035	No	5	0.0006	0.0002393	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	5	0.004154	0.001892	80	None	No	0.031	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.00069	0.035	No	16	0.003899	0.001976	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.0025	0.0017	0.035	No	16	0.002119	0.000862	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-43	0.005	0.0015	0.035	No	16	0.003184	0.001786	43.75	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0006	0.035	No	15	0.003833	0.002003	73.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	8	0.005112	0.0003182	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	PZ-37	0.01174	0.004444	0.035	No	13	0.008092	0.004907	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	20	0.003885	0.001984	75	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.7655	0.2653	6.92	No	7	0.5154	0.2105	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.9255	-0.1666	6.92	No	5	0.3795	0.3259	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-4	1.466	0.02573	6.92	No	5	0.746	0.4298	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.602	0.4665	6.92	No	5	1.034	0.3389	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7741	0.3606	6.92	No	20	0.5674	0.3641	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.242	0.5941	6.92	No	16	0.9179	0.4977	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.234	0.589	6.92	No	16	0.9627	0.5633	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.714	1.139	6.92	No	16	1.926	1.21	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	3.591	1.399	6.92	No	16	2.649	1.818	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.09	0.4612	6.92	No	15	0.7755	0.4638	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	1.106	0.1853	6.92	No	7	0.6456	0.3875	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.995	1.306	6.92	No	13	1.651	0.4631	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SA	0.7755	0.4933	6.92	No	20	0.6344	0.2484	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	1.04	0.5384	6.92	No	20	0.7893	0.4419	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-4	0.14	0.1	4	No	5	0.116	0.02191	60	None	No	0.031	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.12	0.049	4	No	21	0.09519	0.01926	85.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.21	0.034	4	No	17	0.1544	0.112	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	17	0.1006	0.002425	88.24	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.07	4	No	17	0.08771	0.02476	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1065	0.05855	4	No	17	0.1041	0.05169	23.53	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	16	0.09938	0.02516	62.5	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37	0.31	0.1	4	No	13	0.1654	0.1131	69.23	None	No	0.01	NP (NDs)

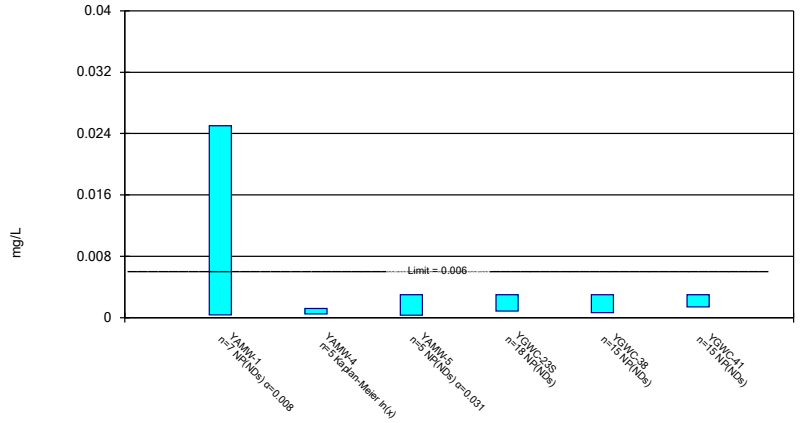
Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	YGWC-24SA	0.1	0.098	4	No	21	0.09671	0.01461	90.48	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.09	4	No	21	0.09314	0.03137	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	7	0.0008843	0.0003062	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00008	0.015	No	5	0.000638	0.0004958	60	None	No	0.031	NP (NDs)
Lead (mg/L)	YAMW-4	0.0006106	1.2e-7	0.015	No	5	0.0005832	0.0004119	40	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	YAMW-5	0.0001361	0.00003504	0.015	No	5	0.0004448	0.0005074	40	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	18	0.0008237	0.0003468	77.78	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	16	0.0008313	0.0003628	81.25	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.00012	0.015	No	16	0.0007848	0.0004016	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.00009	0.015	No	16	0.0007744	0.0004047	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	16	0.0008847	0.0003151	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	15	0.0009373	0.000243	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.015	No	7	0.0007481	0.0004305	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.000088	0.015	No	13	0.0006672	0.0004396	61.54	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SA	0.001	0.00036	0.015	No	18	0.0009118	0.0002619	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004876	0.0001631	0.015	No	18	0.0005517	0.0004303	22.22	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	YAMW-1	0.02035	0.005228	0.04	No	8	0.01279	0.007132	12.5	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.04078	0.01402	0.04	No	5	0.0274	0.007987	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01705	0.01295	0.04	No	5	0.015	0.001225	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.0029	0.0018	0.04	No	20	0.00297	0.002893	5	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-38	0.008794	0.007443	0.04	No	16	0.008119	0.001038	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0044	0.0023	0.04	No	16	0.00405	0.003054	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.04879	0.03226	0.04	No	16	0.04053	0.0127	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01839	0.01168	0.04	No	16	0.01503	0.005157	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.0038	0.0035	0.04	No	15	0.003693	0.0002314	0	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-35	0.015	0.001	0.04	No	8	0.00435	0.005458	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	PZ-37	0.02955	0.02194	0.04	No	13	0.02575	0.005122	7.692	None	No	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.006428	0.00297	0.04	No	20	0.005019	0.003162	5	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	15	0.0001899	0.00002849	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	13	0.0001782	0.00005386	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	13	0.0001892	0.00003883	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	13	0.0001883	0.00004216	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	13	0.0001802	0.00004906	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	12	0.0001834	0.00004223	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.00006	0.002	No	13	0.0001892	0.00003883	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.004175	0.0009024	0.1	No	6	0.003665	0.003321	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.008881	0.004799	0.1	No	5	0.00684	0.001218	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-42	0.01	0.00085	0.1	No	16	0.004692	0.004295	37.5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0012	0.1	No	16	0.005481	0.004286	43.75	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	14	0.009336	0.002486	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	6	0.00865	0.003307	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0015	0.1	No	13	0.004931	0.004184	38.46	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0025	0.1	No	16	0.007437	0.003629	62.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-1	0.005	0.0019	0.05	No	8	0.004125	0.001273	62.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	YAMW-4	0.0183	0.0002687	0.05	No	6	0.01097	0.007869	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	YAMW-5	0.06572	0.03336	0.05	No	6	0.05067	0.01337	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.0392	0.02767	0.05	No	20	0.03344	0.01015	0	None	No	0.01	Param.
Selenium (mg/L)	**YGWC-38**	**0.249**	**0.073**	**0.05**	**Yes**	**16**	**0.1613**	**0.07941**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Selenium (mg/L)	YGWC-41	0.06255	0.04042	0.05	No	16	0.05149	0.01701	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05555	0.04084	0.05	No	16	0.04819	0.0113	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008701	0.006765	0.05	No	15	0.007733	0.001429	6.667	None	No	0.01	Param.
Selenium (mg/L)	PZ-35	0.005	0.0016	0.05	No	8	0.004325	0.001305	75	None	No	0.004	NP (NDs)
Selenium (mg/L)	**PZ-37**	**0.2916**	**0.2149**	**0.05**	**Yes**	**13**	**0.2532**	**0.05155**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	YGWC-36A	0.002616	0.00179	0.05	No	20	0.00344	0.001421	40	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	13	0.00093	0.0002524	92.31	None	No	0.01	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

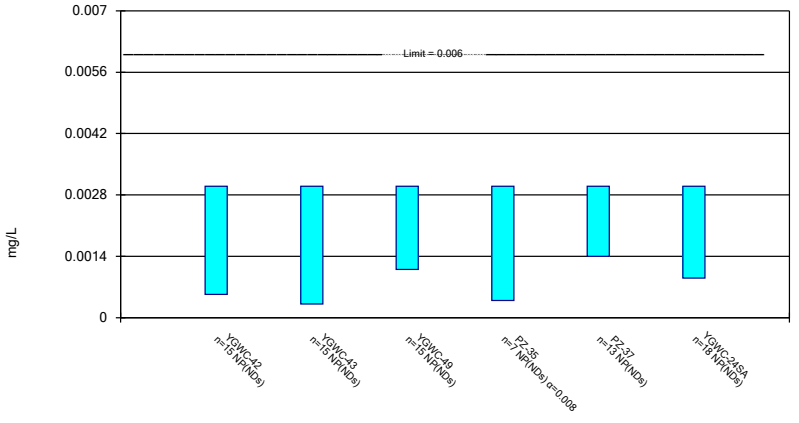
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

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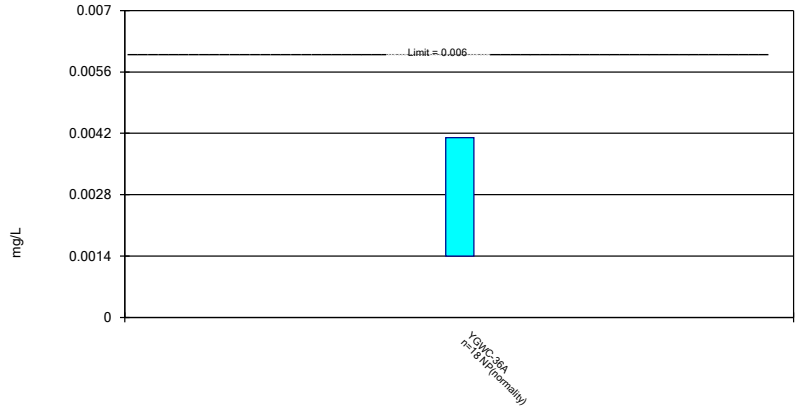

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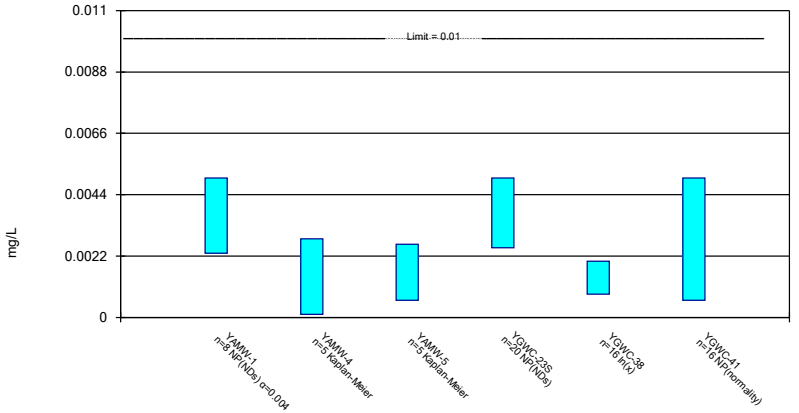
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

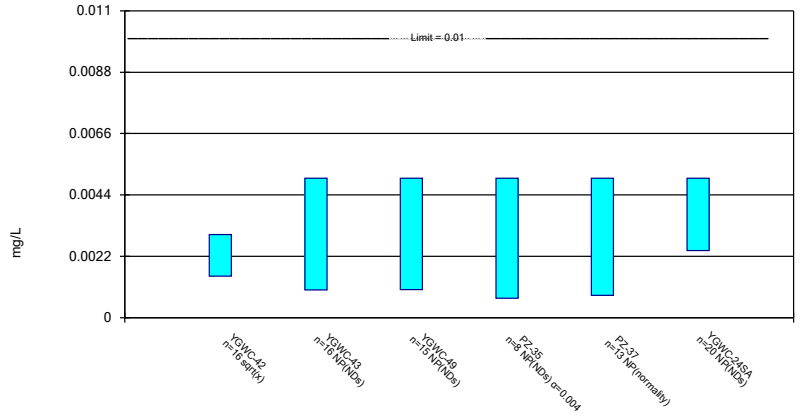
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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.

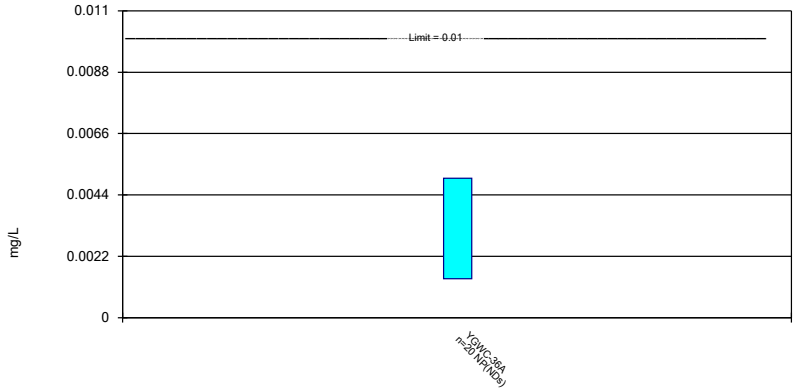


Constituent: Arsenic Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

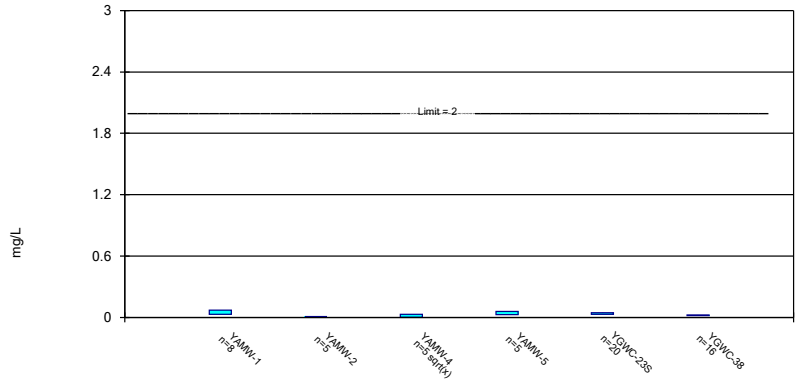


Constituent: Arsenic Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

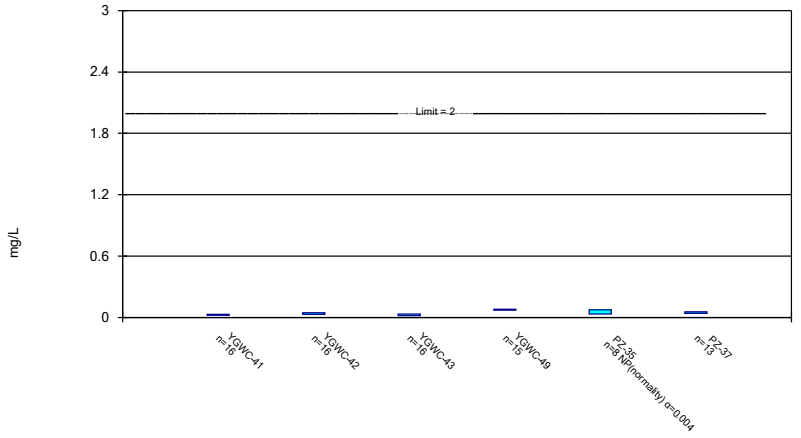


Constituent: Barium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

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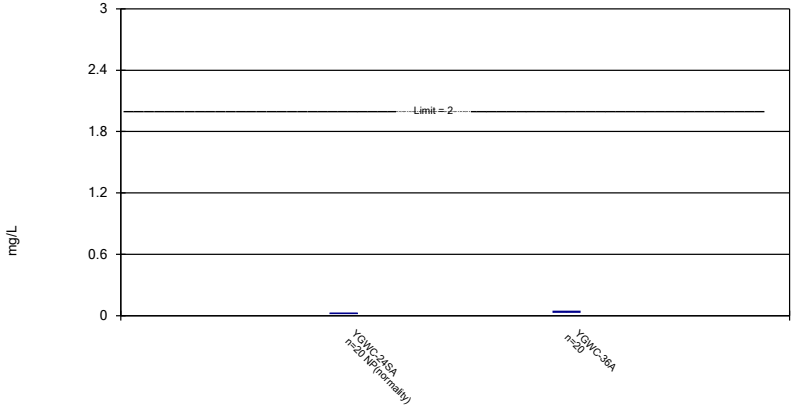

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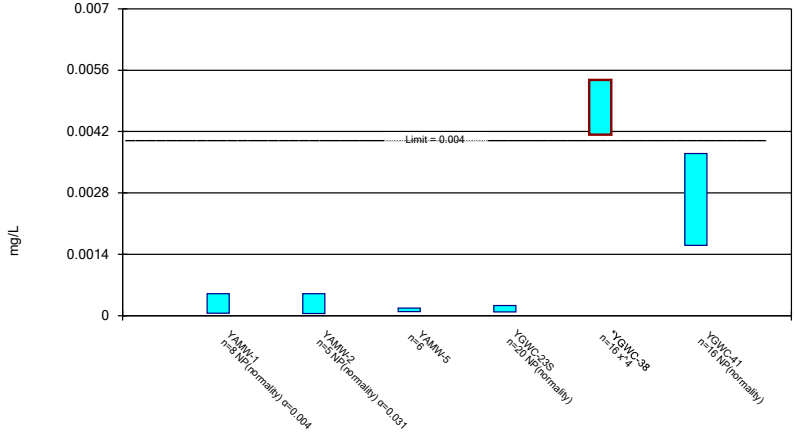
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

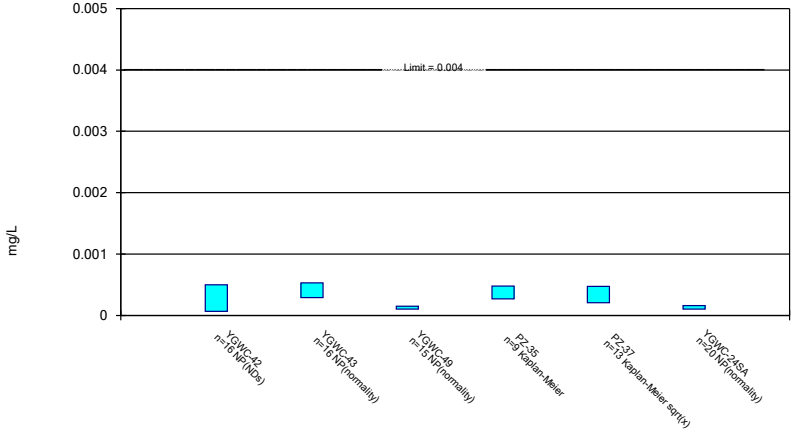
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

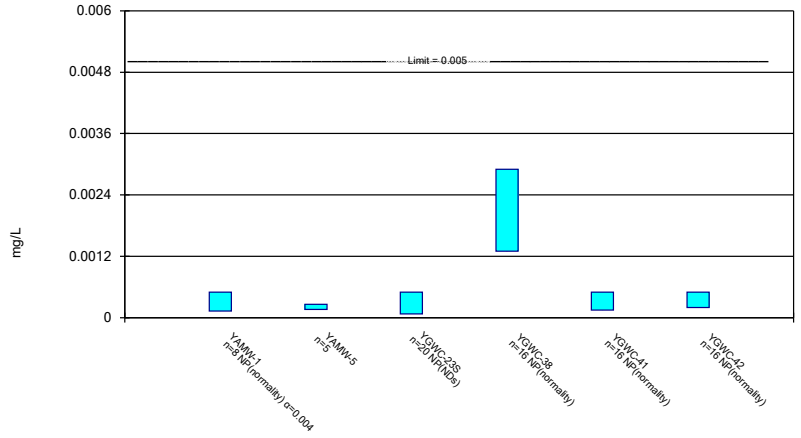
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

Constituent: Beryllium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

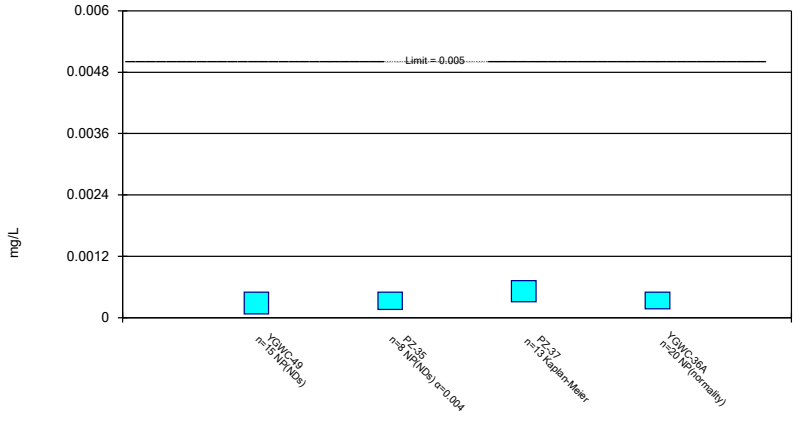


Constituent: Cadmium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

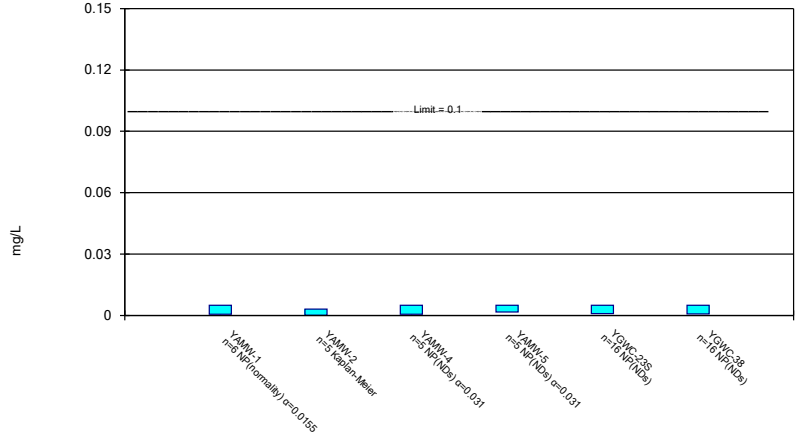


Constituent: Cadmium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

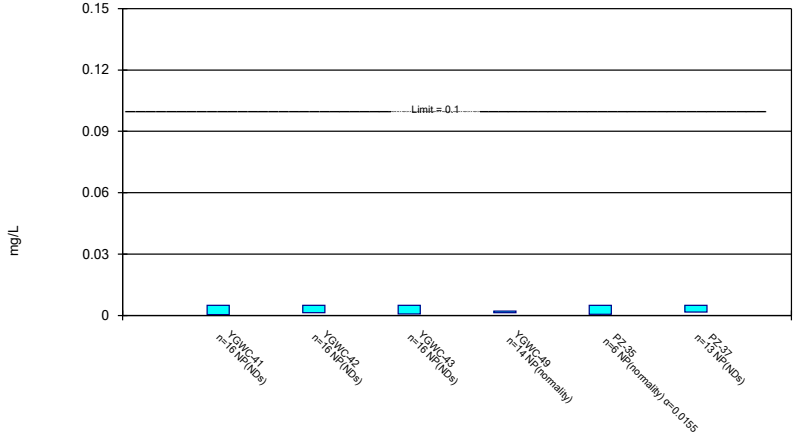


Constituent: Chromium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

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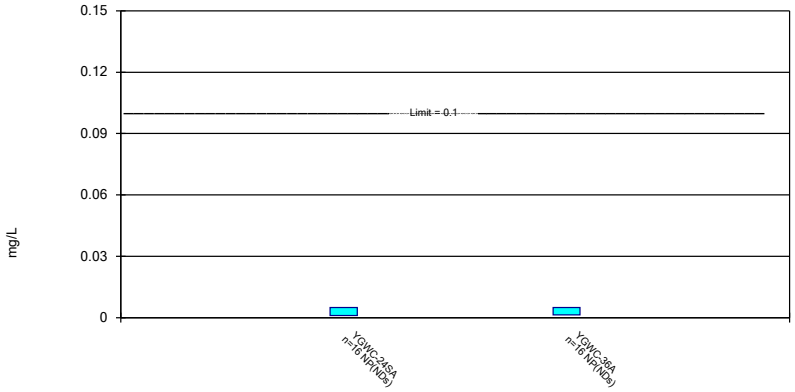
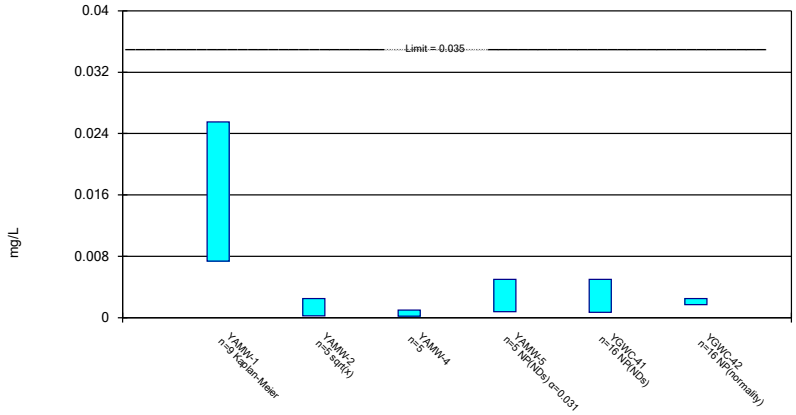


Constituent: Chromium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

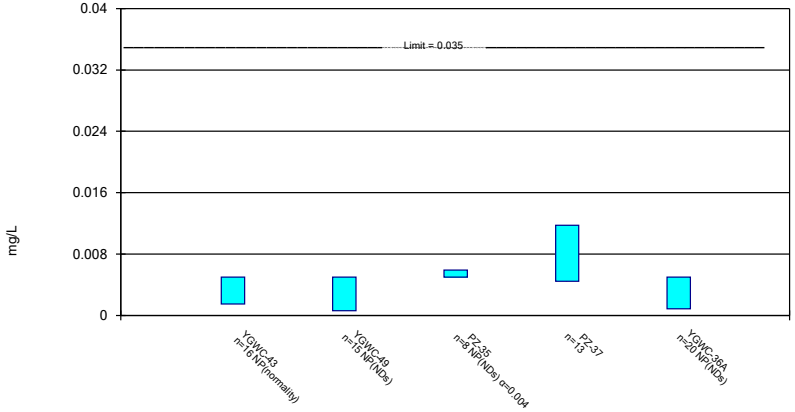
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

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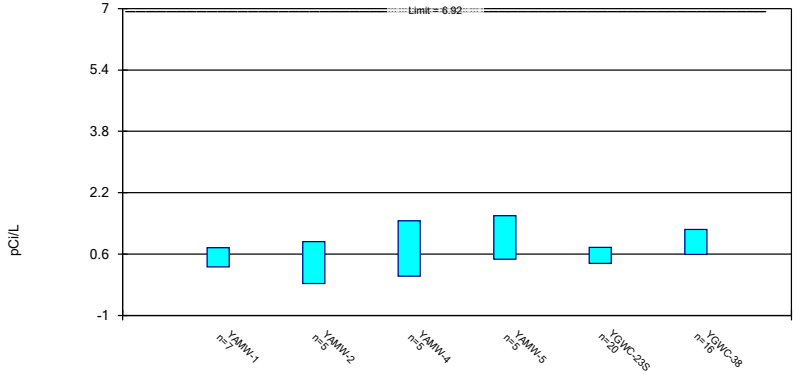
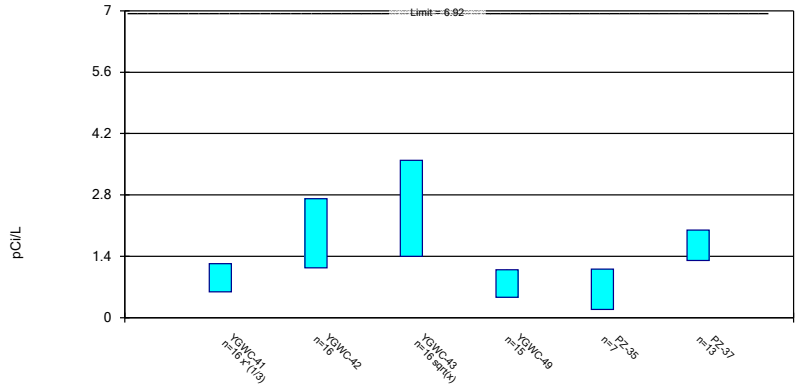


Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

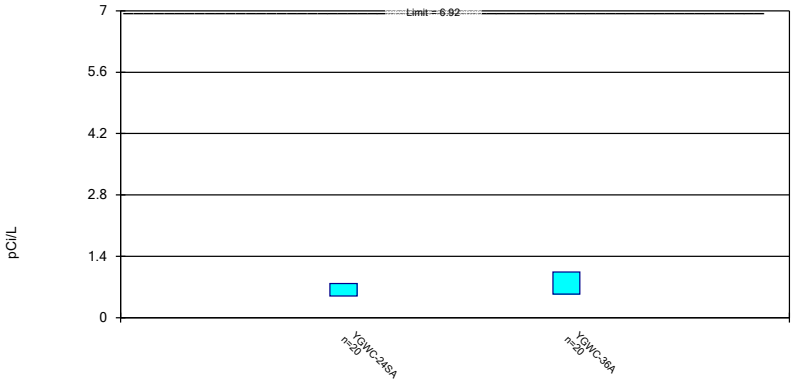


Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

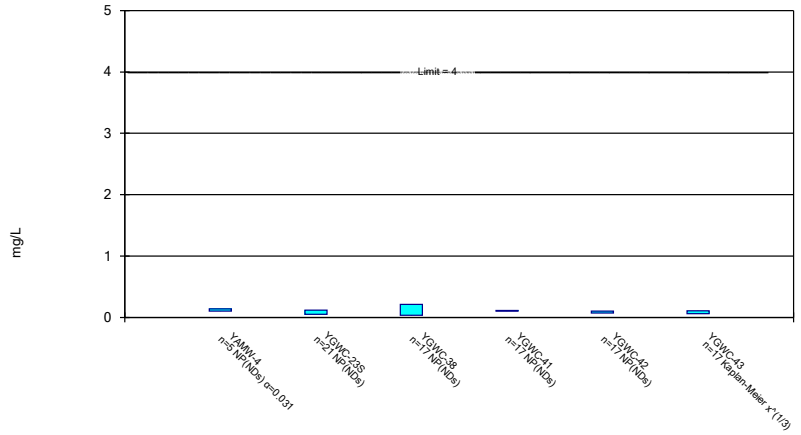


Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

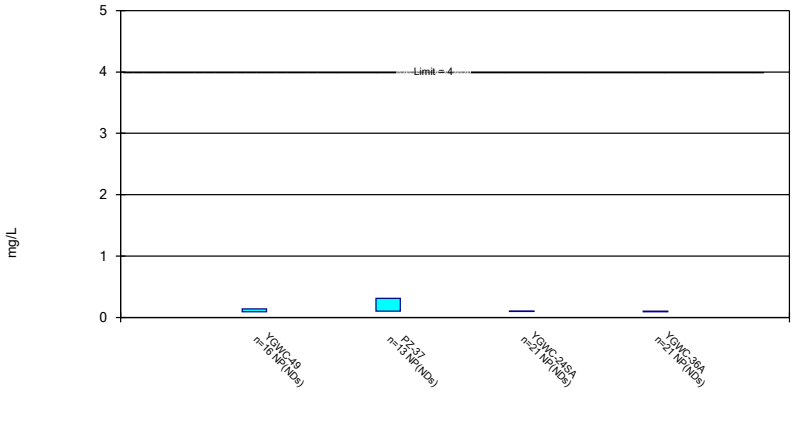


Constituent: Fluoride Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

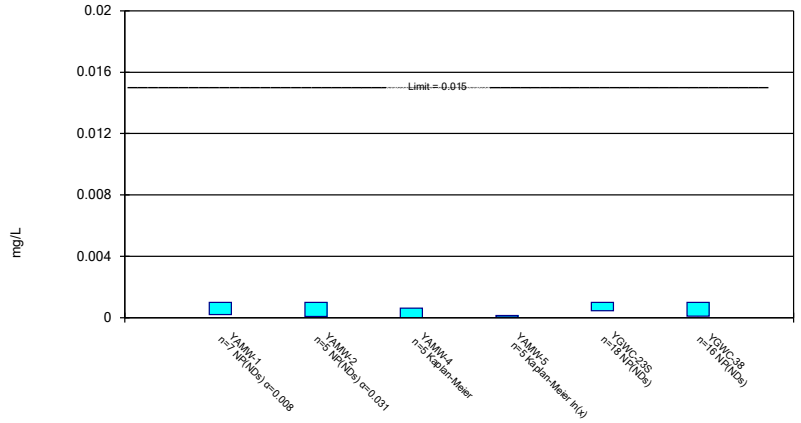
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

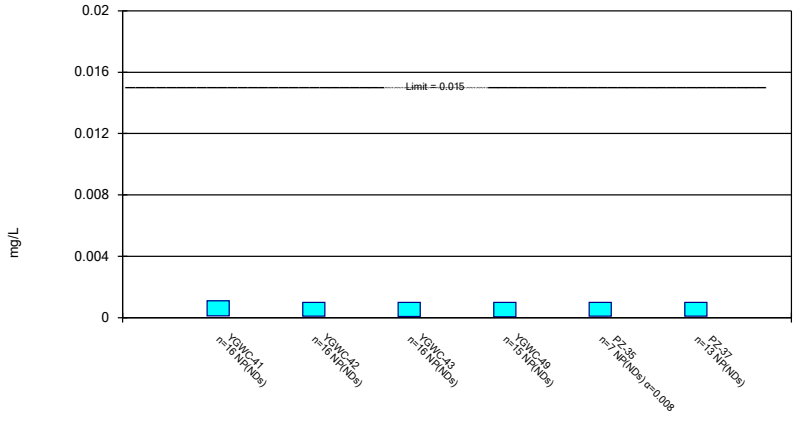
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

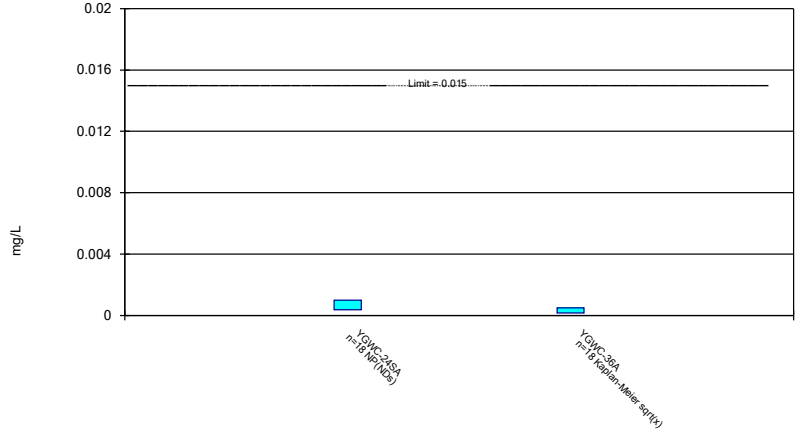
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

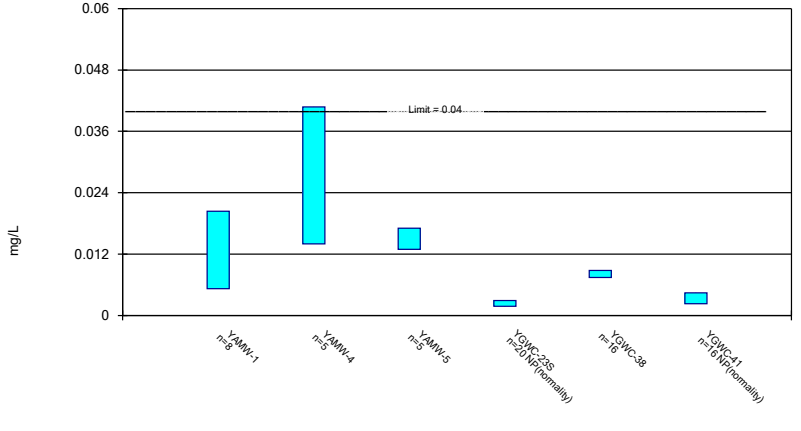
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

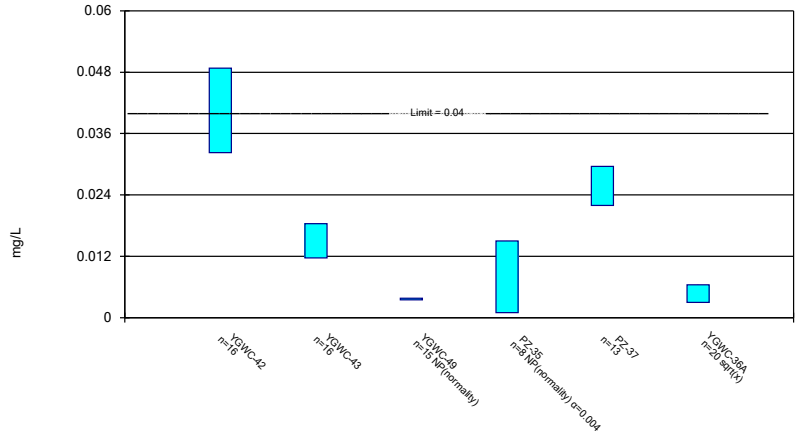
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

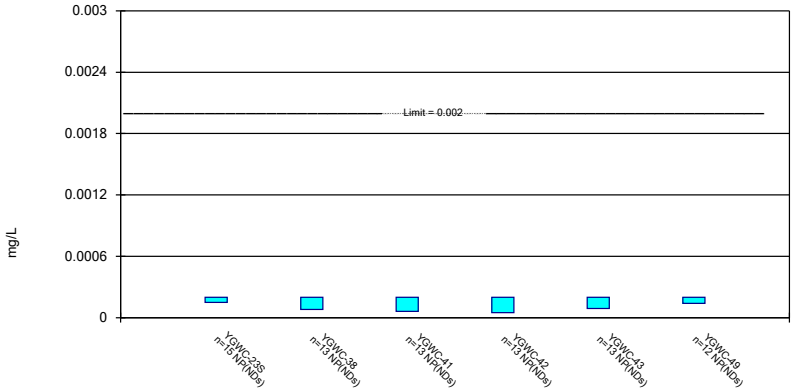
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

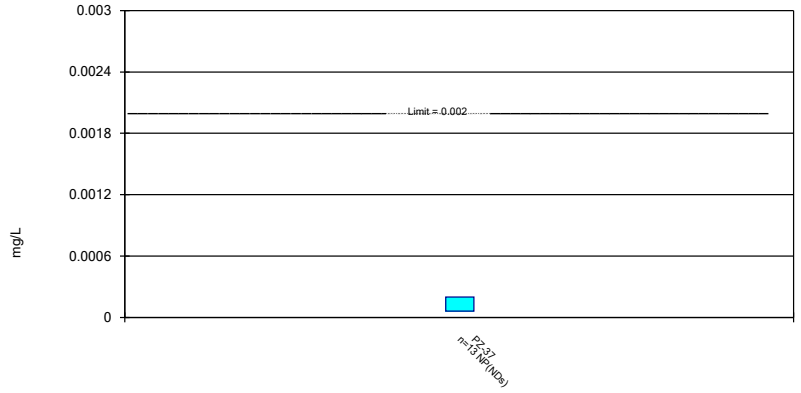
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

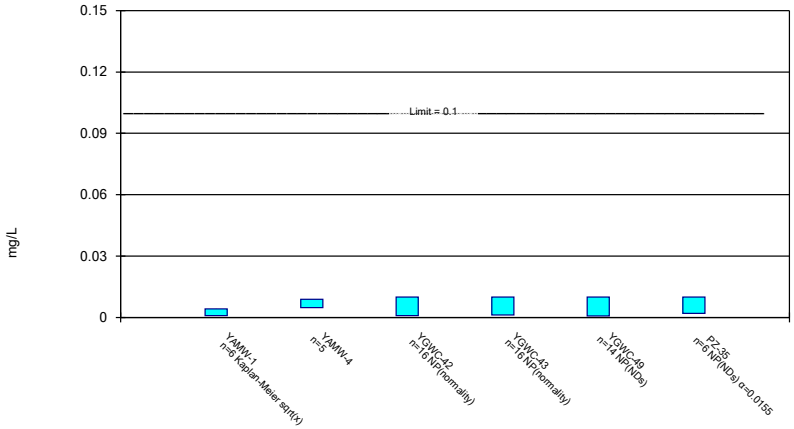
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

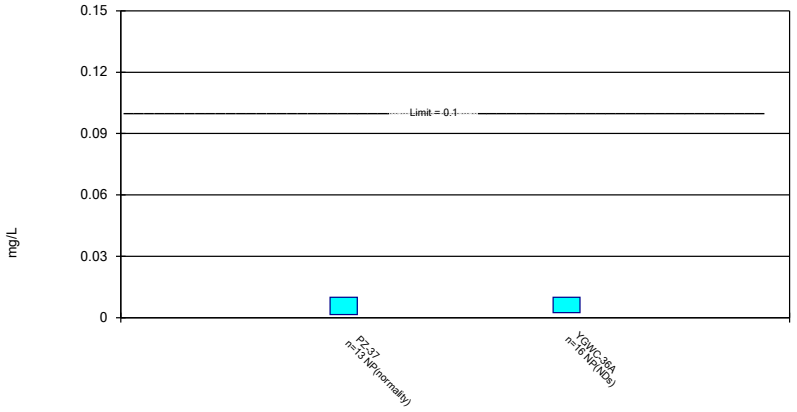
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

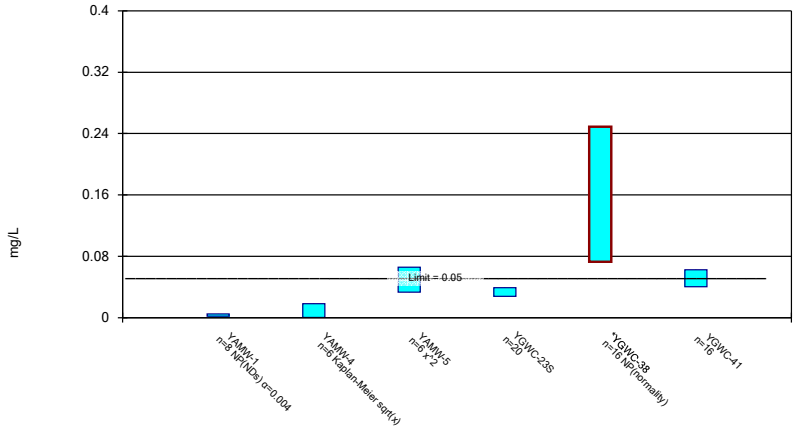
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

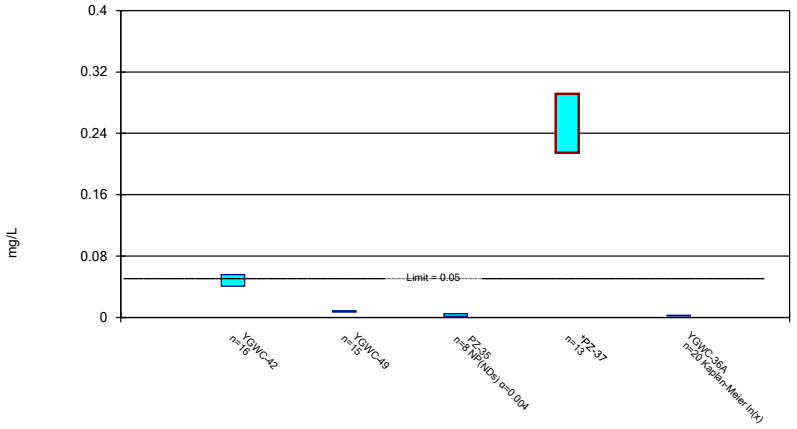
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

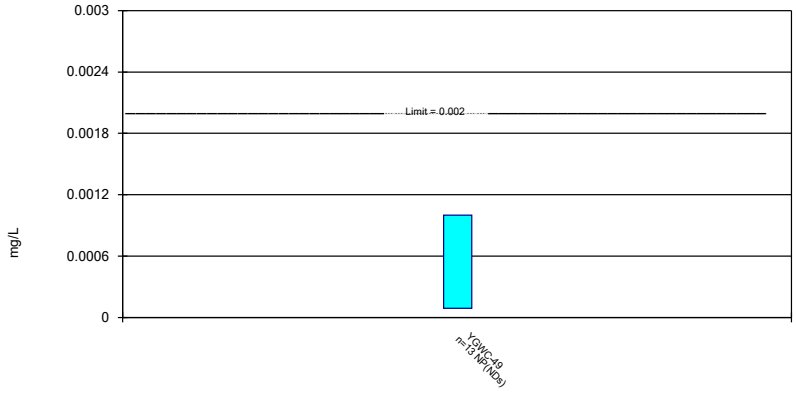
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.003		
7/28/2016				<0.003		
9/20/2016				<0.003		
11/8/2016				<0.003		
1/16/2017				<0.003		
3/9/2017				<0.003		
5/2/2017				<0.003		
7/10/2017				<0.003		
10/12/2017					<0.003	<0.003
11/20/2017					<0.003	
11/21/2017						<0.003
1/11/2018						<0.003
1/12/2018					<0.003	
2/19/2018						<0.003
2/20/2018					<0.003	
3/30/2018				<0.003		
4/3/2018					<0.003	<0.003
6/27/2018						<0.003
6/28/2018					<0.003	
8/7/2018					0.0015 (J)	<0.003
9/24/2018					<0.003	<0.003
3/6/2019				<0.003		
4/4/2019				<0.003		
8/22/2019					<0.003	<0.003
9/26/2019	<0.003					
9/27/2019				0.00029 (J)		
3/25/2020	<0.003				0.00063 (J)	<0.003
3/26/2020				<0.003		
9/23/2020		0.00065 (J)				
9/24/2020	<0.003		0.00033 (J)	0.00085 (J)		
9/25/2020					0.00061 (J)	<0.003
2/9/2021	0.00037 (J)	0.0011 (J)	<0.003	0.00052 (J)	0.00031 (J)	
2/10/2021						0.0014 (J)
3/3/2021	0.025	0.00062 (J)				
3/4/2021			<0.003	<0.003	<0.003	<0.003
8/25/2021		<0.003		<0.003		
8/26/2021			<0.003		<0.003	<0.003
9/1/2021	0.0024 (J)					
2/8/2022						<0.003
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
Mean	0.005681	0.001674	0.002466	0.002592	0.002403	0.002893
Std. Dev.	0.008573	0.001225	0.001194	0.0009432	0.001051	0.0004131
Upper Lim.	0.025	0.001179	0.003	0.003	0.003	0.003
Lower Lim.	0.00037	0.0004933	0.00033	0.00085	0.00063	0.0014

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
6/8/2016						<0.003
8/1/2016						<0.003
8/30/2016	<0.003					
8/31/2016		<0.003				
9/1/2016			<0.003			
9/20/2016						0.0009 (J)
11/8/2016						<0.003
11/15/2016			<0.003			
11/16/2016	<0.003	<0.003				
1/17/2017						<0.003
2/24/2017		<0.003				
2/27/2017	<0.003		0.0011 (J)			
3/8/2017						<0.003
5/2/2017						<0.003
5/9/2017			<0.003			
5/10/2017	<0.003	<0.003				
7/7/2017						<0.003
7/11/2017	<0.003	<0.003				
7/13/2017			<0.003			
10/11/2017			<0.003			
10/12/2017	<0.003	<0.003			<0.003	
11/21/2017					<0.003	
1/11/2018					<0.003	
2/20/2018					<0.003	
3/30/2018						<0.003
4/3/2018					<0.003	
4/4/2018	<0.003	<0.003	<0.003			
6/29/2018					<0.003	
8/6/2018					<0.003	
9/20/2018	<0.003	<0.003	<0.003			
9/24/2018					<0.003	
3/5/2019						<0.003
4/4/2019						<0.003
8/21/2019		<0.003				
8/22/2019	<0.003					
9/26/2019			<0.003	<0.003		<0.003
3/25/2020	<0.003	0.00031 (J)	0.00053 (J)	<0.003		
3/26/2020						<0.003
9/23/2020						<0.003
9/24/2020	<0.003		<0.003	<0.003		
9/25/2020		<0.003			0.0014 (J)	
2/9/2021		<0.003	<0.003		0.00035 (J)	<0.003
2/10/2021	0.00053 (J)			<0.003		
3/3/2021						<0.003
3/4/2021	<0.003	<0.003	<0.003	0.00039 (J)	<0.003	
8/25/2021	<0.003				<0.003	
9/1/2021			<0.003	<0.003		<0.003
9/27/2021		<0.003				
2/8/2022		<0.003	<0.003			
2/10/2022	<0.003			<0.003	<0.003	<0.003
Mean	0.002835	0.002821	0.002709	0.002627	0.002673	0.002883
Std. Dev.	0.0006378	0.0006946	0.0007763	0.0009865	0.0008263	0.000495

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00053	0.00031	0.0011	0.00039	0.0014	0.0009

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A
9/2/2016	<0.003
11/14/2016	0.0014 (J)
2/28/2017	0.0004 (J)
5/9/2017	<0.003
7/13/2017	<0.003
9/22/2017	<0.003
9/29/2017	<0.003
10/6/2017	<0.003
3/30/2018	<0.003
3/6/2019	0.0011 (J)
4/4/2019	0.0041
9/26/2019	0.0065
3/25/2020	0.0011 (J)
10/7/2020	<0.003
2/10/2021	0.028
3/4/2021	0.0015 (J)
9/3/2021	0.0016 (J)
2/11/2022	0.0023 (J)
Mean	0.004
Std. Dev.	0.006144
Upper Lim.	0.0041
Lower Lim.	0.0014

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.005		
7/28/2016				<0.005		
9/20/2016				<0.005		
11/8/2016				<0.005		
1/16/2017				<0.005		
3/9/2017				<0.005		
5/2/2017				<0.005		
7/10/2017				<0.005		
10/12/2017					0.0023 (J)	0.0011 (J)
11/20/2017					0.0008 (J)	
11/21/2017						<0.005
1/11/2018						<0.005
1/12/2018					0.001 (J)	
2/19/2018						<0.005
2/20/2018					0.00096 (J)	
3/30/2018				<0.005		
4/3/2018					0.0015 (J)	0.00072 (J)
6/12/2018				<0.005		
6/27/2018						0.00062 (J)
6/28/2018					0.0017 (J)	
8/7/2018					0.00072 (J)	<0.005
9/24/2018					0.0017 (J)	0.001 (J)
9/27/2018				<0.005		
10/16/2018	<0.005					
3/6/2019				<0.005		
4/4/2019				<0.005		
8/22/2019					0.00055 (J)	0.00036 (J)
9/26/2019	<0.005					
9/27/2019				<0.005		
10/9/2019					0.00057 (J)	0.00052 (J)
3/25/2020	<0.005				0.00068 (J)	0.001 (J)
3/26/2020				0.0012 (J)		
9/23/2020		<0.005				
9/24/2020	<0.005		0.0015 (J)	<0.005		
9/25/2020					<0.005	<0.005
2/9/2021	<0.005	0.001 (J)	0.00095 (J)	<0.005	0.00098 (J)	
2/10/2021						<0.005
3/3/2021	<0.005	0.00079 (J)				
3/4/2021			<0.005	<0.005	<0.005	<0.005
8/25/2021		<0.005		<0.005		
8/26/2021			<0.005		0.0013 (J)	<0.005
9/1/2021	<0.005					
2/8/2022						0.0021 (J)
2/10/2022	0.0023 (J)	0.0026 (J)	0.0024 (J)	0.0025 (J)	0.0017 (J)	
Mean	0.004662	0.002878	0.00297	0.004685	0.001654	0.002964
Std. Dev.	0.0009546	0.00206	0.001924	0.0009922	0.001397	0.002135
Upper Lim.	0.005	0.002818	0.002618	0.005	0.002013	0.005
Lower Lim.	0.0023	0.0001089	0.0006151	0.0025	0.000835	0.00062

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
6/8/2016						<0.005
8/1/2016						<0.005
8/30/2016	0.0023 (J)					
8/31/2016		<0.005				
9/1/2016			<0.005			
9/20/2016						<0.005
11/8/2016						<0.005
11/15/2016			<0.005			
11/16/2016	0.0017 (J)	<0.005				
1/17/2017						<0.005
2/24/2017		<0.005				
2/27/2017	0.002 (J)		<0.005			
3/8/2017						<0.005
5/2/2017						<0.005
5/9/2017			<0.005			
5/10/2017	0.0022 (J)	<0.005				
7/7/2017						<0.005
7/11/2017	0.003 (J)	<0.005				
7/13/2017			<0.005			
10/11/2017			0.0006 (J)			
10/12/2017	0.0031 (J)	<0.005			0.0014 (J)	
11/21/2017					0.0008 (J)	
1/11/2018					0.0006 (J)	
2/20/2018					<0.005	
3/30/2018						<0.005
4/3/2018					0.0012 (J)	
4/4/2018	0.0023 (J)	<0.005	<0.005			
6/12/2018						<0.005
6/29/2018					0.0011 (J)	
8/6/2018					<0.005	
9/20/2018	0.0018 (J)	0.00099 (J)	0.001 (J)			
9/24/2018					0.00094 (J)	
9/26/2018						<0.005
10/16/2018				0.00069 (J)		
3/5/2019						<0.005
4/4/2019						<0.005
8/21/2019		<0.005				
8/22/2019	0.00089 (J)					
9/26/2019			<0.005	<0.005		<0.005
10/9/2019	0.00078 (J)	0.00051 (J)				
3/25/2020	0.0013 (J)	0.0007 (J)	0.00086 (J)	<0.005		
3/26/2020						0.0015 (J)
9/23/2020						<0.005
9/24/2020	<0.005		<0.005	<0.005		
9/25/2020		<0.005			<0.005	
2/9/2021		<0.005	<0.005		0.0015 (J)	<0.005
2/10/2021	0.0016 (J)			0.00096 (J)		
3/3/2021						<0.005
3/4/2021	<0.005	<0.005	<0.005	<0.005	<0.005	
8/25/2021	0.0014 (J)				0.0014 (J)	
9/1/2021			<0.005	<0.005		<0.005
9/27/2021		<0.005				

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
2/8/2022		0.0022 (J)	<0.005			
2/10/2022	0.0026 (J)			0.0018 (J)	0.0017 (J)	0.0024 (J)
Mean	0.002311	0.004025	0.004164	0.003556	0.002357	0.004695
Std. Dev.	0.001241	0.001777	0.001732	0.002016	0.001857	0.0009501
Upper Lim.	0.002976	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00149	0.00099	0.001	0.00069	0.0008	0.0024

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A
9/2/2016	<0.005
11/14/2016	<0.005
2/28/2017	0.0006 (J)
5/9/2017	0.0006 (J)
7/13/2017	<0.005
9/22/2017	<0.005
9/29/2017	<0.005
10/6/2017	<0.005
3/30/2018	<0.005
6/13/2018	0.00066 (J)
9/26/2018	<0.005
3/6/2019	<0.005
4/4/2019	<0.005
9/26/2019	<0.005
3/25/2020	<0.005
10/7/2020	<0.005
2/10/2021	0.00088 (J)
3/4/2021	<0.005
9/3/2021	<0.005
2/11/2022	0.0014 (J)
Mean	0.003957
Std. Dev.	0.00186
Upper Lim.	0.005
Lower Lim.	0.0014

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					0.045	
7/28/2016					0.0511	
9/20/2016					0.0561	
11/8/2016					0.054	
1/16/2017					0.0528	
3/9/2017					0.0469	
5/2/2017					0.0427	
7/10/2017					0.0395	
10/12/2017						0.0269
11/20/2017						0.0255
1/12/2018						0.0236
2/20/2018						0.0255
3/30/2018					0.03	
4/3/2018						0.023
6/12/2018					0.024	
6/28/2018						0.024
8/7/2018						0.023
9/24/2018						0.021
9/27/2018					0.022	
10/16/2018	0.048					
3/6/2019					0.019	
4/4/2019					0.019	
8/22/2019						0.019
9/26/2019	0.047					
9/27/2019					0.018	
10/9/2019						0.019
3/25/2020	0.04					0.018
3/26/2020					0.027	
9/23/2020		0.0092 (J)	0.0063 (J)			
9/24/2020	0.028			0.057	0.035	
9/25/2020						0.015
2/9/2021	0.039	0.0085 (J)	0.02	0.042	0.042	0.016
3/3/2021	0.035	0.0082	0.021			
3/4/2021				0.039	0.043	0.016
8/25/2021			0.0037 (J)		0.049	
8/26/2021				0.036		0.016
9/1/2021	0.075	0.0072				
2/10/2022	0.084	0.0074	0.0033 (J)	0.034	0.058	0.016
Mean	0.0495	0.0081	0.01086	0.0416	0.03871	0.02047
Std. Dev.	0.01972	0.0008185	0.008882	0.009127	0.01347	0.004062
Upper Lim.	0.0704	0.009472	0.0286	0.05689	0.04635	0.02311
Lower Lim.	0.0286	0.006728	0.0005986	0.02631	0.03106	0.01783

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		0.0455				
8/31/2016			0.0065 (J)			
9/1/2016				0.077		
11/15/2016				0.0772		
11/16/2016		0.0541	0.0092 (J)			
2/24/2017			0.0144			
2/27/2017		0.0573		0.0888		
5/9/2017				0.0792		
5/10/2017		0.0517	0.0173			
7/11/2017		0.0451	0.0183			
7/13/2017				0.0839		
10/11/2017				0.078		
10/12/2017	0.0394	0.0429	0.0205			0.064
11/21/2017	0.032					0.0579
1/11/2018	0.03					0.0549
2/19/2018	0.0308					
2/20/2018						0.0593
4/3/2018	0.03					0.051
4/4/2018		0.041	0.024	0.074		
6/27/2018	0.028					
6/29/2018						0.054
8/6/2018						0.048
8/7/2018	0.027					
9/20/2018		0.038	0.035	0.074		
9/24/2018	0.026					0.047
10/16/2018					0.063	
8/21/2019			0.03			
8/22/2019	0.021	0.031				
9/26/2019				0.065	0.039	
10/9/2019	0.021	0.027	0.04			
3/25/2020	0.021	0.03	0.033	0.071	0.039	
9/24/2020		0.026		0.066	0.034	
9/25/2020	0.016		0.046			0.034
2/9/2021			0.041	0.071		0.036
2/10/2021	0.017	0.031			0.032	
3/4/2021	0.017	0.03	0.039	0.069	0.033	0.036
8/25/2021		0.027				0.035
8/26/2021	0.018					
9/1/2021				0.066	0.067	
9/27/2021			0.0097			
2/8/2022	0.021		0.029	0.07		
2/10/2022		0.026			0.074	0.029
Mean	0.0247	0.03773	0.02581	0.07401	0.04763	0.04662
Std. Dev.	0.006706	0.01069	0.01259	0.0068	0.01732	0.01142
Upper Lim.	0.02906	0.04468	0.034	0.07861	0.074	0.05511
Lower Lim.	0.02034	0.03077	0.01762	0.0694	0.032	0.03813

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SA	YGWC-36A
6/8/2016	0.02	
8/1/2016	0.02	
9/2/2016		0.0409
9/20/2016	0.0203	
11/8/2016	0.0191	
11/14/2016		0.0182
1/17/2017	0.0192	
2/28/2017		0.023
3/8/2017	0.0189	
5/2/2017	0.019	
5/9/2017		0.0349
7/7/2017	0.019	
7/13/2017		0.0484
9/22/2017		0.0491
9/29/2017		0.0452
10/6/2017		0.0508
3/30/2018	0.02	0.043
6/12/2018	0.018	
6/13/2018		0.046
9/26/2018	0.019	0.048
3/5/2019	0.019	
3/6/2019		0.041
4/4/2019	0.02	0.042
9/26/2019	0.017	0.025
3/25/2020		0.025
3/26/2020	0.019	
9/23/2020	0.026	
10/7/2020		0.04
2/9/2021	0.031	
2/10/2021		0.035
3/3/2021	0.025	
3/4/2021		0.028
9/1/2021	0.025	
9/3/2021		0.038
2/10/2022	0.026	
2/11/2022		0.044
Mean	0.02103	0.03828
Std. Dev.	0.003574	0.009683
Upper Lim.	0.025	0.04377
Lower Lim.	0.019	0.03278

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.0005		
7/28/2016				<0.0005		
9/20/2016				0.0001 (J)		
11/8/2016				<0.0005		
1/16/2017				0.0001 (J)		
3/9/2017				0.0001 (J)		
5/2/2017				9E-05 (J)		
7/10/2017				<0.0005		
10/12/2017					0.0057	0.0036
11/20/2017					0.0053	
11/21/2017						0.0036
1/11/2018						0.0037
1/12/2018					0.0053	
2/19/2018						0.0039
2/20/2018					0.0053	
3/30/2018				<0.0005		
4/3/2018					0.0056	0.0037
6/12/2018				8.1E-05 (J)		
6/27/2018						0.0038
6/28/2018					0.0059	
8/7/2018					0.0058	0.0037
9/24/2018					0.0051	0.0032
9/27/2018				9E-05 (J)		
10/16/2018	<0.0005					
3/6/2019				6.6E-05 (J)		
4/4/2019				7.2E-05 (J)		
8/22/2019					0.0049	0.0026 (J)
9/26/2019	<0.0005					
9/27/2019				7.7E-05 (J)		
10/9/2019					0.0046	0.0026 (J)
1/15/2020			0.00017 (J)			
3/25/2020	0.00037 (J)				0.0038	0.0026 (J)
3/26/2020				9E-05 (J)		
9/23/2020		<0.0005				
9/24/2020	5.8E-05 (J)		8.6E-05 (J)	0.00015 (J)		
9/25/2020					0.0033	0.002 (J)
2/9/2021	<0.0005	5.1E-05 (J)	0.00015 (J)	0.00015 (J)	0.0029 (J)	
2/10/2021						0.0015 (J)
3/3/2021	<0.0005	<0.0005				
3/4/2021			0.00013 (J)	0.00013 (J)	0.0029	0.0015
8/25/2021				0.00019 (J)		
8/26/2021			0.00012 (J)		0.0028	0.0012
9/1/2021	9.5E-05 (J)	6.5E-05 (J)				
2/8/2022						0.0016
2/10/2022	0.00016 (J)	7.4E-05 (J)	0.00013 (J)	0.00023 (J)	0.0027	
Mean	0.0003354	0.000238	0.000131	0.0002108	0.004494	0.0028
Std. Dev.	0.0001982	0.0002393	2.839E-05	0.000176	0.001209	0.0009737
Upper Lim.	0.0005	0.0005	0.00017	0.00023	0.005381	0.0037
Lower Lim.	5.8E-05	5.1E-05	9.2E-05	8.1E-05	0.004128	0.0016

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
6/8/2016						<0.0005
8/1/2016						0.0001 (J)
8/30/2016	9E-05 (J)					
8/31/2016		<0.0005				
9/1/2016			0.0001 (J)			
9/20/2016						0.0001 (J)
11/8/2016						<0.0005
11/15/2016			0.0001 (J)			
11/16/2016	<0.0005	<0.0005				
1/17/2017						0.0001 (J)
2/24/2017		<0.0005				
2/27/2017	<0.0005		0.0001 (J)			
3/8/2017						0.0001 (J)
5/2/2017						0.0001 (J)
5/9/2017			0.0001 (J)			
5/10/2017	9E-05 (J)	<0.0005				
7/7/2017						0.0001 (J)
7/11/2017	0.0001 (J)	<0.0005				
7/13/2017			0.0001 (J)			
10/11/2017			0.0001 (J)			
10/12/2017	<0.0005	0.0001 (J)			0.0004 (J)	
11/21/2017					0.0004 (J)	
1/11/2018					0.0003 (J)	
2/20/2018					<0.0005	
3/30/2018						<0.0005
4/3/2018					<0.0005	
4/4/2018	<0.0005	<0.0005	<0.0005			
6/12/2018						0.00012 (J)
6/29/2018					0.00033 (J)	
8/6/2018					0.0002 (J)	
8/30/2018				0.00052 (J)		
9/20/2018	<0.0005	0.00029 (J)	0.00011 (J)			
9/24/2018					0.00029 (J)	
9/26/2018						0.00014 (J)
10/16/2018				0.00036 (J)		
3/5/2019						0.00016 (J)
4/4/2019						0.00015 (J)
8/21/2019		0.0003 (J)				
8/22/2019	<0.0005					
9/26/2019			0.00013 (J)	<0.0005		0.00014 (J)
10/9/2019	<0.0005	0.00034 (J)				
3/25/2020	<0.0005	0.00034 (J)	0.00013 (J)	<0.0005		
3/26/2020						0.00016 (J)
9/23/2020						6.1E-05 (J)
9/24/2020	6.7E-05 (J)		0.00013 (J)	0.00033 (J)		
9/25/2020		0.00054 (J)			0.00031 (J)	
2/9/2021		0.00053 (J)	0.00013 (J)		0.00029 (J)	0.00013 (J)
2/10/2021	5.7E-05 (J)			0.00025 (J)		
3/3/2021						9.9E-05 (J)
3/4/2021	<0.0005	0.00056	0.0001 (J)	0.00025 (J)	0.00017 (J)	
8/25/2021	<0.0005				0.00059	
9/1/2021			0.00012 (J)	0.00045 (J)		0.00014 (J)

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
9/27/2021		0.00015 (J)				
2/8/2022		0.00037 (J)	0.00015 (J)			
2/10/2022	6.1E-05 (J)			0.00055	0.001	0.00016 (J)
Mean	0.0003416	0.0004075	0.00014	0.0004122	0.0004062	0.000178
Std. Dev.	0.0002115	0.0001423	0.0001009	0.000117	0.0002152	0.0001413
Upper Lim.	0.0005	0.00053	0.00015	0.000479	0.0004733	0.00016
Lower Lim.	6.7E-05	0.00029	0.0001	0.000269	0.0002084	0.0001

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A
9/2/2016	0.0003 (J)
11/14/2016	9E-05 (J)
2/28/2017	0.0001 (J)
5/9/2017	0.0002 (J)
7/13/2017	0.0003 (J)
9/22/2017	0.0003 (J)
9/29/2017	0.0003 (J)
10/6/2017	0.0003 (J)
3/30/2018	<0.0005
6/13/2018	0.00035 (J)
9/26/2018	0.00032 (J)
3/6/2019	0.00029 (J)
4/4/2019	0.00033 (J)
9/26/2019	0.00029 (J)
3/25/2020	0.00022 (J)
10/7/2020	0.00014 (J)
2/10/2021	9.9E-05 (J)
3/4/2021	0.00016 (J)
9/3/2021	0.00035 (J)
2/11/2022	0.00043 (J)
Mean	0.0002685
Std. Dev.	0.0001099
Upper Lim.	0.0003309
Lower Lim.	0.000206

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-5	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/7/2016			<0.0005			
7/28/2016			<0.0005			
8/30/2016						<0.0005
9/20/2016			<0.0005			
11/8/2016			7E-05 (J)			
11/16/2016						<0.0005
1/16/2017			<0.0005			
2/27/2017						<0.0005
3/9/2017			<0.0005			
5/2/2017			<0.0005			
5/10/2017						0.0002 (J)
7/10/2017			<0.0005			
7/11/2017						0.0005 (J)
10/12/2017				0.003	0.0002 (J)	0.0006 (J)
11/20/2017				0.0027		
11/21/2017					0.0003 (J)	
1/11/2018					0.0002 (J)	
1/12/2018				0.0029		
2/19/2018					<0.0005	
2/20/2018				0.0029		
3/30/2018			<0.0005			
4/3/2018				0.0027	<0.0005	
4/4/2018						<0.0005
6/12/2018			<0.0005			
6/27/2018					0.00025 (J)	
6/28/2018				0.0029		
8/7/2018				0.0027	0.00024 (J)	
9/20/2018						0.0002 (J)
9/24/2018				0.0027	0.00021 (J)	
9/27/2018			<0.0005			
10/16/2018	0.00014 (J)					
3/6/2019			<0.0005			
4/4/2019			<0.0005			
8/22/2019				0.0023 (J)	0.00015 (J)	0.00017 (J)
9/26/2019	<0.0005					
9/27/2019			<0.0005			
10/9/2019				0.0021 (J)	0.00017 (J)	0.00025 (J)
3/25/2020	<0.0005			0.0018 (J)	0.00018 (J)	0.00021 (J)
3/26/2020			<0.0005			
9/24/2020	0.00017 (J)	0.00018 (J)	<0.0005			0.00014 (J)
9/25/2020				0.0015 (J)	0.00014 (J)	
2/9/2021	0.00013 (J)	0.00025 (J)	<0.0005	0.0014 (J)		
2/10/2021					<0.0005	<0.0005
3/3/2021	<0.0005					
3/4/2021		0.00018 (J)	<0.0005	0.0013	<0.0005	<0.0005
8/25/2021			<0.0005			<0.0005
8/26/2021		0.00021 (J)		0.0011	<0.0005	
9/1/2021	0.00023 (J)					
2/8/2022					0.00012 (J)	
2/10/2022	0.00018 (J)	0.00022 (J)	<0.0005	0.0011		<0.0005
Mean	0.0002938	0.000208	0.0004785	0.002194	0.0002913	0.0003919
Std. Dev.	0.0001734	2.95E-05	9.615E-05	0.0007141	0.0001516	0.0001608

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-5	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
Upper Lim.	0.0005	0.0002574	0.0005	0.0029	0.0005	0.0005
Lower Lim.	0.00013	0.0001586	7E-05	0.0013	0.00015	0.0002

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	PZ-35	PZ-37	YGWC-36A
9/1/2016	<0.0005			
9/2/2016				<0.0005
11/14/2016				9E-05 (J)
11/15/2016	<0.0005			
2/27/2017	7E-05 (J)			
2/28/2017				0.0001 (J)
5/9/2017	<0.0005			0.0002 (J)
7/13/2017	<0.0005			0.0002 (J)
9/22/2017				0.0002 (J)
9/29/2017				0.0002 (J)
10/6/2017				0.0002 (J)
10/11/2017	<0.0005			
10/12/2017			0.0002 (J)	
11/21/2017			0.0002 (J)	
1/11/2018			0.0004 (J)	
2/20/2018			<0.0005	
3/30/2018				<0.0005
4/3/2018			<0.0005	
4/4/2018	<0.0005			
6/13/2018				0.00019 (J)
6/29/2018			0.00099 (J)	
8/6/2018			0.00063 (J)	
9/20/2018	<0.0005			
9/24/2018			0.00069 (J)	
9/26/2018				0.00018 (J)
10/16/2018		<0.0005		
3/6/2019				0.00015 (J)
4/4/2019				0.00019 (J)
9/26/2019	<0.0005	<0.0005		0.00017 (J)
3/25/2020	<0.0005	0.00016 (J)		0.00019 (J)
9/24/2020	<0.0005	<0.0005		
9/25/2020			0.00039 (J)	
10/7/2020				0.00012 (J)
2/9/2021	<0.0005		0.00042 (J)	
2/10/2021		<0.0005		<0.0005
3/4/2021	<0.0005	<0.0005	0.00028 (J)	<0.0005
8/25/2021			0.00094	
9/1/2021	<0.0005	<0.0005		
9/3/2021				<0.0005
2/8/2022	<0.0005			
2/10/2022		<0.0005	0.00093	
2/11/2022				<0.0005
Mean	0.0004713	0.0004575	0.0005438	0.000269
Std. Dev.	0.000111	0.0001202	0.0002744	0.0001585
Upper Lim.	0.0005	0.0005	0.0007228	0.0005
Lower Lim.	7E-05	0.00016	0.000308	0.00017

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					<0.005	
7/28/2016					0.0008 (J)	
9/20/2016					<0.005	
11/8/2016					<0.005	
1/16/2017					<0.005	
3/9/2017					<0.005	
5/2/2017					0.0007 (J)	
7/10/2017					<0.005	
10/12/2017						0.0005 (J)
11/20/2017						<0.005
1/12/2018						<0.005
2/20/2018						<0.005
3/30/2018					<0.005	
4/3/2018						<0.005
6/28/2018						<0.005
8/7/2018						<0.005
9/24/2018						<0.005
3/6/2019					<0.005	
8/22/2019						<0.005
10/9/2019						<0.005
3/25/2020	0.00058 (J)					0.00065 (J)
3/26/2020					0.0019 (J)	
9/23/2020		0.00071 (J)	<0.005			
9/24/2020	0.00074 (J)			<0.005	0.0011 (J)	
9/25/2020						<0.005
2/9/2021	0.001 (J)	0.0011 (J)	0.00057 (J)	<0.005	0.00086 (J)	<0.005
3/3/2021	0.00076 (J)	0.0012 (J)	<0.005			
3/4/2021				<0.005	0.00078 (J)	<0.005
8/25/2021			<0.005		<0.005	
8/26/2021				<0.005		<0.005
9/1/2021	<0.005	0.003 (J)				
2/10/2022	0.0013 (J)	<0.005	<0.005	0.0016 (J)	<0.005	<0.005
Mean	0.001563	0.002202	0.004114	0.00432	0.003509	0.004447
Std. Dev.	0.001702	0.001797	0.001981	0.001521	0.002005	0.001512
Upper Lim.	0.005	0.002983	0.005	0.005	0.005	0.005
Lower Lim.	0.00058	2.161E-05	0.00057	0.0016	0.0008	0.00065

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		<0.005				
8/31/2016			<0.005			
9/1/2016				0.0013 (J)		
11/15/2016				0.0014 (J)		
11/16/2016		<0.005	<0.005			
2/24/2017			<0.005			
2/27/2017		<0.005		0.0016 (J)		
5/9/2017				0.0017 (J)		
5/10/2017		0.0006 (J)	0.0005 (J)			
7/11/2017		<0.005	<0.005			
7/13/2017				0.0019 (J)		
10/11/2017				0.0014 (J)		
10/12/2017	<0.005	<0.005	<0.005			0.0019 (J)
11/21/2017	<0.005					0.0017 (J)
1/11/2018	<0.005					0.001 (J)
2/19/2018	<0.005					
2/20/2018						<0.005
4/3/2018	<0.005					<0.005
4/4/2018		<0.005	<0.005	<0.005		
6/27/2018	<0.005					
6/29/2018						<0.005
8/6/2018						<0.005
8/7/2018	<0.005					
9/20/2018		<0.005	<0.005	0.0017 (J)		
9/24/2018	<0.005					<0.005
8/21/2019			0.00062 (J)			
8/22/2019	<0.005	<0.005				
10/9/2019	<0.005	0.00043 (J)	0.00074 (J)			
3/25/2020	0.00039 (J)	0.0013 (J)	<0.005	0.0019 (J)	0.0012 (J)	
9/24/2020		<0.005		0.0019 (J)	0.00061 (J)	
9/25/2020	<0.005		0.00071 (J)			<0.005
2/9/2021			<0.005	0.002 (J)		<0.005
2/10/2021	<0.005	<0.005			0.0006 (J)	
3/4/2021	<0.005	<0.005	<0.005	0.0017 (J)	0.0007 (J)	<0.005
8/25/2021		<0.005				<0.005
8/26/2021	<0.005					
9/1/2021				0.002 (J)	<0.005	
9/27/2021			<0.005			
2/8/2022	<0.005		<0.005	0.0021 (J)		
2/10/2022		<0.005			<0.005	<0.005
Mean	0.004712	0.004208	0.003911	0.001971	0.002185	0.0042
Std. Dev.	0.001152	0.001711	0.001949	0.0009059	0.002192	0.001532
Upper Lim.	0.005	0.005	0.005	0.0021	0.005	0.005
Lower Lim.	0.00039	0.0013	0.00071	0.0014	0.0006	0.0017

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SA	YGWC-36A
6/8/2016	<0.005	
8/1/2016	<0.005	
9/2/2016		<0.005
9/20/2016	<0.005	
11/8/2016	<0.005	
11/14/2016		0.0035
1/17/2017	<0.005	
2/28/2017		<0.005
3/8/2017	<0.005	
5/2/2017	0.0011 (J)	
5/9/2017		<0.005
7/7/2017	<0.005	
7/13/2017		<0.005
9/22/2017		<0.005
9/29/2017		<0.005
10/6/2017		<0.005
3/30/2018	<0.005	<0.005
3/5/2019	<0.005	
3/6/2019		<0.005
3/25/2020		0.00074 (J)
3/26/2020	0.00094 (J)	
9/23/2020	<0.005	
10/7/2020		0.0013 (J)
2/9/2021	0.0011 (J)	
2/10/2021		0.00094 (J)
3/3/2021	<0.005	
3/4/2021		<0.005
9/1/2021	<0.005	
9/3/2021		<0.005
2/10/2022	<0.005	
2/11/2022		<0.005
Mean	0.004259	0.004155
Std. Dev.	0.001594	0.001615
Upper Lim.	0.005	0.005
Lower Lim.	0.0011	0.0013

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-41	YGWC-42
8/30/2016						0.0025 (J)
11/16/2016						0.002 (J)
2/27/2017						0.0021 (J)
5/10/2017						0.0021 (J)
7/11/2017						0.0014 (J)
10/12/2017					0.0011 (J)	0.0017 (J)
11/21/2017					0.0003 (J)	
1/11/2018					0.0003 (J)	
2/19/2018					<0.005	
4/3/2018					<0.005	
4/4/2018						<0.005
6/27/2018					0.00069 (J)	
8/7/2018					<0.005	
9/20/2018						0.003 (J)
9/24/2018					<0.005	
10/16/2018	0.032					
8/22/2019					<0.005	0.0019 (J)
9/26/2019	0.015					
10/9/2019					<0.005	0.0019 (J)
1/3/2020	<0.005					
3/25/2020	<0.005				<0.005	0.0018 (J)
9/23/2020		0.0025 (J)	0.00052 (J)			
9/24/2020	0.01			0.00077 (J)		0.0017 (J)
9/25/2020					<0.005	
2/9/2021	0.03	0.001 (J)	0.00063 (J)	<0.005		
2/10/2021					<0.005	0.0019 (J)
3/3/2021	0.018	0.00082 (J)	0.001 (J)			
3/4/2021				<0.005	<0.005	0.0018 (J)
8/25/2021			0.00041 (J)			0.0014 (J)
8/26/2021				<0.005	<0.005	
9/1/2021	0.022	0.00093 (J)				
2/8/2022					<0.005	
2/10/2022	0.011	0.00052 (J)	0.00044 (J)	<0.005		0.0017 (J)
Mean	0.01644	0.001154	0.0006	0.004154	0.003899	0.002119
Std. Dev.	0.009964	0.0007745	0.0002393	0.001892	0.001976	0.000862
Upper Lim.	0.02551	0.002488	0.001001	0.005	0.005	0.0025
Lower Lim.	0.007375	0.0002417	0.0001991	0.00077	0.00069	0.0017

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/31/2016	<0.005				
9/1/2016		<0.005			
9/2/2016					0.0006 (J)
11/14/2016					<0.005
11/15/2016		0.0006 (J)			
11/16/2016	<0.005				
2/24/2017	<0.005				
2/27/2017		0.0008 (J)			
2/28/2017					<0.005
5/9/2017		<0.005			<0.005
5/10/2017	<0.005				
7/11/2017	<0.005				
7/13/2017		0.0005 (J)			<0.005
9/22/2017					<0.005
9/29/2017					<0.005
10/6/2017					<0.005
10/11/2017		0.0006 (J)			
10/12/2017	0.0006 (J)			0.0078 (J)	
11/21/2017				0.0097 (J)	
1/11/2018				0.0131	
2/20/2018				0.0162	
3/30/2018					<0.005
4/3/2018				0.015	
4/4/2018	<0.005	<0.005			
6/13/2018					<0.005
6/29/2018				0.013	
8/6/2018				0.0053 (J)	
9/20/2018	0.0034 (J)	<0.005			
9/24/2018				0.0071 (J)	
9/26/2018					<0.005
10/16/2018			<0.005		
3/6/2019					<0.005
4/4/2019					<0.005
8/21/2019	0.0026 (J)				
9/26/2019		<0.005	<0.005		0.00048 (J)
10/9/2019	0.0023 (J)				
3/25/2020	0.0016 (J)	<0.005	0.0059		0.00038 (J)
9/24/2020		<0.005	<0.005		
9/25/2020	0.0018 (J)			0.0023 (J)	
10/7/2020					0.00086 (J)
2/9/2021	0.0017 (J)	<0.005		0.0023 (J)	
2/10/2021			<0.005		0.00038 (J)
3/4/2021	0.0015 (J)	<0.005	<0.005	0.003 (J)	<0.005
8/25/2021				0.0068	
9/1/2021		<0.005	<0.005		
9/3/2021					<0.005
9/27/2021	<0.005				
2/8/2022	0.00045 (J)	<0.005			
2/10/2022			<0.005	0.0036 (J)	
2/11/2022					<0.005
Mean	0.003184	0.003833	0.005112	0.008092	0.003885
Std. Dev.	0.001786	0.002003	0.0003182	0.004907	0.001984

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
Upper Lim.	0.005	0.005	0.0059	0.01174	0.005
Lower Lim.	0.0015	0.0006	0.005	0.004444	0.00086

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					0.303 (U)	
7/28/2016					0.386 (U)	
9/20/2016					1.47	
11/8/2016					0.22 (U)	
1/16/2017					0.147 (U)	
3/9/2017					0.0892 (U)	
5/2/2017					0.149 (U)	
7/10/2017					0.815 (U)	
10/12/2017						1.24
11/20/2017						0.342 (U)
1/12/2018						1.04
2/20/2018						1.6 (U)
3/30/2018					0.659 (U)	
4/3/2018						0.726 (U)
6/12/2018					1.03 (U)	
6/28/2018						1.06 (U)
8/7/2018						1.21
9/24/2018						1.52
9/27/2018					1.06 (U)	
10/16/2018	0.384 (U)					
3/6/2019					0.736 (U)	
4/4/2019					0.474 (U)	
8/22/2019						1.97
9/27/2019					0.684 (U)	
10/8/2019						0.751 (U)
3/25/2020	0.525 (U)					0.321 (U)
3/26/2020					0.281 (U)	
9/23/2020		0.0813 (U)	1.2 (U)			
9/24/2020	0.547 (U)			0.668 (U)	0.788 (U)	
9/25/2020						0.246 (U)
2/9/2021	0.866 (U)	0.492 (U)	0.659 (U)	1.07 (U)	0.464 (U)	0.626 (U)
3/3/2021	0.377 (U)	0.563 (U)	1.07			
3/4/2021				1.46	0.771 (U)	0.816 (U)
8/25/2021			0.0991 (U)		0.624 (U)	
8/26/2021				0.724 (U)		0.427 (U)
9/1/2021	0.676 (U)	0.761 (U)				
2/10/2022	0.233 (U)	0 (U)	0.702 (U)	1.25 (U)	0.197 (U)	0.791 (U)
Mean	0.5154	0.3795	0.746	1.034	0.5674	0.9179
Std. Dev.	0.2105	0.3259	0.4298	0.3389	0.3641	0.4977
Upper Lim.	0.7655	0.9255	1.466	1.602	0.7741	1.242
Lower Lim.	0.2653	-0.1666	0.02573	0.4665	0.3606	0.5941

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		2.99				
8/31/2016			0.926 (U)			
9/1/2016				1.2		
11/15/2016				0.645 (U)		
11/16/2016		4.01	0.773 (U)			
2/24/2017			0.661 (U)			
2/27/2017		2.5		0.244 (U)		
5/9/2017				0.519 (U)		
5/10/2017		2.55	1.27			
7/11/2017		3.94	1.02			
7/13/2017				0.5 (U)		
10/11/2017				1.41		
10/12/2017	0.641 (U)	3.57	1.58			1.83
11/21/2017	2.01					1.33
1/11/2018	0.919 (U)					1.53
2/19/2018	1.82					
2/20/2018						2.75
4/3/2018	0.911 (U)					1.47
4/4/2018		1.9	1.71	0.442 (U)		
6/27/2018	0.429 (U)					
6/29/2018						1.69
8/6/2018						1.69
8/7/2018	0.579 (U)					
9/20/2018		1.94	2.8	1.14 (U)		
9/24/2018	1.39					2.26
10/16/2018					0.363 (U)	
8/21/2019			3.16			
8/22/2019	2.03	1.59				
9/26/2019				1.16 (U)		
10/8/2019	0.609 (U)	0.995 (U)	3.65			
3/25/2020	0.568 (U)	1.17 (U)	3.04	1.2 (U)	0.197 (U)	
9/24/2020		0.751 (U)		1.57 (U)	1.07 (U)	
9/25/2020	0.769 (U)		4.75			1.68 (U)
2/9/2021			6.38	0.137 (U)		1.52
2/10/2021	0.548 (U)	0.612 (U)			0.546 (U)	
3/4/2021	1.23	1.02	6.02	0.579 (U)	0.397 (U)	1.49
8/25/2021		0.978 (U)				1.41
8/26/2021	0.356 (U)					
9/1/2021				0.686 (U)	0.696 (U)	
9/27/2021			1.54			
2/8/2022	0.594 (U)		3.11	0.201 (U)		
2/10/2022		0.307 (U)			1.25 (U)	0.81 (U)
Mean	0.9627	1.926	2.649	0.7755	0.6456	1.651
Std. Dev.	0.5633	1.21	1.818	0.4638	0.3875	0.4631
Upper Lim.	1.234	2.714	3.591	1.09	1.106	1.995
Lower Lim.	0.589	1.139	1.399	0.4612	0.1853	1.306

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SA	YGWC-36A
6/8/2016	1.06	
8/1/2016	0.467 (U)	
9/2/2016		0.873 (U)
9/20/2016	0.853 (U)	
9/22/2016		0.667 (U)
9/29/2016		1.63
10/6/2016		0.641 (U)
11/8/2016	0.433 (U)	
11/14/2016		0.0451 (U)
1/17/2017	0.0759 (U)	
2/28/2017		1.34 (U)
3/8/2017	0.479 (U)	
5/2/2017	0.506 (U)	
5/9/2017		0.309 (U)
7/7/2017	0.713 (U)	
7/13/2017		0.618 (U)
3/30/2018	0.409 (U)	0.721 (U)
6/12/2018	0.728 (U)	
6/13/2018		1.04 (U)
9/26/2018	0.981	0.604 (U)
3/5/2019	0.837 (U)	
3/6/2019		0.919 (U)
4/4/2019		1.05 (U)
4/9/2019	0.502 (U)	
9/26/2019	0.964 (U)	0.979 (U)
3/25/2020		1.22 (U)
3/26/2020	0.511 (U)	
9/23/2020	0.786 (U)	
10/7/2020		1.58
2/9/2021	0.678 (U)	
2/10/2021		0.466 (U)
3/3/2021	0.415 (U)	
3/4/2021		0.0671 (U)
9/1/2021	0.444 (U)	
9/3/2021		0.622 (U)
2/10/2022	0.846 (U)	
2/11/2022		0.395 (U)
Mean	0.6344	0.7893
Std. Dev.	0.2484	0.4419
Upper Lim.	0.7755	1.04
Lower Lim.	0.4933	0.5384

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-4	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
6/7/2016		<0.1				
7/28/2016		0.03 (J)				
8/30/2016					0.02 (J)	
8/31/2016						0.12 (J)
9/20/2016		<0.1				
11/8/2016		<0.1				
11/16/2016					0.07 (J)	0.2 (J)
1/16/2017		<0.1				
2/24/2017						0.21 (J)
2/27/2017					0.06 (J)	
3/9/2017		<0.1				
5/2/2017		<0.1				
5/10/2017					<0.1	0.04 (J)
7/10/2017		<0.1				
7/11/2017					<0.1	0.2 (J)
10/11/2017		<0.1				
10/12/2017			<0.1	<0.1	<0.1	0.1 (J)
11/20/2017			0.2 (J)			
11/21/2017				<0.1		
1/11/2018				<0.1		
1/12/2018			0.21 (J)			
2/19/2018				<0.1		
2/20/2018			<0.1			
3/30/2018		<0.1				
4/3/2018			0.41	<0.1		
4/4/2018					<0.1	<0.1
6/12/2018		<0.1				
6/27/2018				<0.1		
6/28/2018			0.43			
8/7/2018			<0.1	0.11 (J)		
9/20/2018					0.041 (J)	<0.1
9/24/2018			0.034 (J)	<0.1		
9/27/2018		<0.1				
3/6/2019		<0.1				
3/27/2019			0.24 (J)		<0.1	
3/28/2019				0.1 (J)		0.078 (J)
4/4/2019		0.049 (J)				
8/21/2019						0.062 (J)
8/22/2019			<0.1	<0.1	<0.1	
9/27/2019		0.12 (J)				
10/9/2019			<0.1	<0.1	<0.1	<0.1
3/25/2020			<0.1	<0.1	<0.1	0.073 (J)
3/26/2020		<0.1				
9/23/2020	<0.1					
9/24/2020		<0.1			<0.1	
9/25/2020			<0.1	<0.1		<0.1
2/9/2021	0.14	<0.1	<0.1			0.058 (J)
2/10/2021				<0.1	<0.1	
3/3/2021	0.14					
3/4/2021		<0.1	<0.1	<0.1	<0.1	0.063 (J)
8/25/2021	<0.1	<0.1			<0.1	
8/26/2021			<0.1	<0.1		

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-4	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
9/27/2021						0.1
2/8/2022				<0.1		0.066 (J)
2/10/2022	<0.1	<0.1	<0.1		<0.1	
Mean	0.116	0.09519	0.1544	0.1006	0.08771	0.1041
Std. Dev.	0.02191	0.01926	0.112	0.002425	0.02476	0.05169
Upper Lim.	0.14	0.12	0.21	0.11	0.1	0.1065
Lower Lim.	0.1	0.049	0.034	0.1	0.07	0.05855

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	PZ-37	YGWC-24SA	YGWC-36A
6/8/2016			<0.1	
8/1/2016			<0.1	
9/1/2016	0.09 (J)			
9/2/2016				0.05 (J)
9/20/2016			<0.1	
11/8/2016			<0.1	
11/14/2016				0.18 (J)
11/15/2016	0.16 (J)			
1/17/2017			<0.1	
2/27/2017	0.06 (J)			
2/28/2017				0.09 (J)
3/8/2017			<0.1	
5/2/2017			<0.1	
5/9/2017	0.05 (J)			0.009 (J)
7/7/2017			<0.1	
7/13/2017	<0.1			<0.1
9/22/2017				0.09 (J)
9/29/2017				<0.1
10/5/2017			<0.1	
10/6/2017				<0.1
10/11/2017	0.14 (J)			<0.1
10/12/2017		<0.1		
11/21/2017		0.26 (J)		
1/11/2018		<0.1		
2/20/2018		0.45		
3/30/2018			<0.1	<0.1
4/3/2018		0.31		
4/4/2018	<0.1			
6/12/2018			<0.1	
6/13/2018				<0.1
6/29/2018		<0.1		
8/6/2018		0.23 (J)		
9/20/2018	<0.1			
9/24/2018		<0.1		
9/26/2018			<0.1	<0.1
3/5/2019			<0.1	
3/6/2019				<0.1
3/28/2019	<0.1			
4/4/2019			0.033 (J)	0.043 (J)
9/26/2019	0.09 (J)		0.098 (J)	0.094 (J)
3/25/2020	<0.1			<0.1
3/26/2020			<0.1	
9/23/2020			<0.1	
9/24/2020	<0.1			
9/25/2020		<0.1		
10/7/2020				<0.1
2/9/2021	<0.1	<0.1	<0.1	
2/10/2021				<0.1
3/3/2021			<0.1	
3/4/2021	<0.1	<0.1		<0.1
8/25/2021		<0.1		
9/1/2021	<0.1		<0.1	

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	PZ-37	YGWC-24SA	YGWC-36A
9/3/2021				<0.1
2/8/2022	<0.1			
2/10/2022		<0.1	<0.1	
2/11/2022				<0.1
Mean	0.09938	0.1654	0.09671	0.09314
Std. Dev.	0.02516	0.1131	0.01461	0.03137
Upper Lim.	0.14	0.31	0.1	0.1
Lower Lim.	0.09	0.1	0.098	0.09

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					0.00044 (J)	
7/28/2016					<0.001	
9/20/2016					<0.001	
11/8/2016					<0.001	
1/16/2017					<0.001	
3/9/2017					<0.001	
5/2/2017					<0.001	
7/10/2017					<0.001	
10/12/2017						0.0001 (J)
11/20/2017						0.0001 (J)
1/12/2018						0.0001 (J)
2/20/2018						<0.001
3/30/2018					<0.001	
4/3/2018						<0.001
6/28/2018						<0.001
8/7/2018						<0.001
9/24/2018						<0.001
3/6/2019					<0.001	
4/4/2019					<0.001	
8/22/2019						<0.001
9/26/2019	<0.001					
9/27/2019					0.00013 (J)	
10/9/2019						<0.001
3/25/2020	<0.001					<0.001
3/26/2020					<0.001	
9/23/2020		<0.001	0.00028 (J)			
9/24/2020	<0.001			0.00011 (J)	4.6E-05 (J)	
9/25/2020						<0.001
2/9/2021	0.00019 (J)	0.00011 (J)	0.00054 (J)	7.3E-05 (J)	<0.001	<0.001
3/3/2021	<0.001	8E-05 (J)	9.6E-05 (J)			
3/4/2021				4.1E-05 (J)	0.00021 (J)	<0.001
8/25/2021			<0.001		<0.001	
8/26/2021				<0.001		<0.001
9/1/2021	<0.001	<0.001				
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mean	0.0008843	0.000638	0.0005832	0.0004448	0.0008237	0.0008313
Std. Dev.	0.0003062	0.0004958	0.0004119	0.0005074	0.0003468	0.0003628
Upper Lim.	0.001	0.001	0.0006106	0.0001361	0.001	0.001
Lower Lim.	0.00019	8E-05	1.2E-07	3.504E-05	0.00044	0.0001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		<0.001				
8/31/2016			<0.001			
9/1/2016				<0.001		
11/15/2016				<0.001		
11/16/2016		0.0002 (J)	<0.001			
2/24/2017			<0.001			
2/27/2017		<0.001		<0.001		
5/9/2017				<0.001		
5/10/2017		9E-05 (J)	8E-05 (J)			
7/11/2017		<0.001	<0.001			
7/13/2017				<0.001		
10/11/2017				<0.001		
10/12/2017	<0.001	<0.001	<0.001			0.0002 (J)
11/21/2017	<0.001					0.0002 (J)
1/11/2018	7E-05 (J)					0.0001 (J)
2/19/2018	<0.001					
2/20/2018						<0.001
4/3/2018	<0.001					<0.001
4/4/2018		<0.001	<0.001	<0.001		
6/27/2018	0.0011 (J)					
6/29/2018						<0.001
8/6/2018						<0.001
8/7/2018	<0.001					
9/20/2018		<0.001	<0.001	<0.001		
9/24/2018	<0.001					<0.001
8/21/2019			<0.001			
8/22/2019	6.7E-05 (J)	<0.001				
9/26/2019				<0.001	<0.001	
10/9/2019	0.00012 (J)	<0.001	<0.001			
3/25/2020	<0.001	4.7E-05 (J)	7.5E-05 (J)	5.9E-05 (J)	<0.001	
9/24/2020		<0.001		<0.001	<0.001	
9/25/2020	<0.001		<0.001			8.5E-05 (J)
2/9/2021			<0.001	<0.001		8.8E-05 (J)
2/10/2021	0.0002 (J)	5.4E-05 (J)			8.7E-05 (J)	
3/4/2021	<0.001	<0.001	<0.001	<0.001	0.00015 (J)	<0.001
8/25/2021		<0.001				<0.001
8/26/2021	<0.001					
9/1/2021				<0.001	<0.001	
9/27/2021			<0.001			
2/8/2022	<0.001		<0.001	<0.001		
2/10/2022		<0.001			<0.001	<0.001
Mean	0.0007848	0.0007744	0.0008847	0.0009373	0.0007481	0.0006672
Std. Dev.	0.0004016	0.0004047	0.0003151	0.000243	0.0004305	0.0004396
Upper Lim.	0.0011	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00012	9E-05	8E-05	5.9E-05	8.7E-05	8.8E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SA	YGWC-36A
6/8/2016	<0.001	
8/1/2016	<0.001	
9/2/2016		0.0017 (J)
9/20/2016	<0.001	
11/8/2016	<0.001	
11/14/2016		0.0002 (J)
1/17/2017	<0.001	
2/28/2017		0.0003 (J)
3/8/2017	<0.001	
5/2/2017	<0.001	
5/9/2017		0.0004 (J)
7/7/2017	<0.001	
7/13/2017		0.0004 (J)
9/22/2017		0.0003 (J)
9/29/2017		0.0002 (J)
10/6/2017		0.0002 (J)
3/30/2018	<0.001	<0.001
3/5/2019	<0.001	
3/6/2019		<0.001
4/4/2019	<0.001	0.00037 (J)
9/26/2019	<0.001	0.00023 (J)
3/25/2020		0.0001 (J)
3/26/2020	5.3E-05 (J)	
9/23/2020	<0.001	
10/7/2020		0.00077 (J)
2/9/2021	0.00036 (J)	
2/10/2021		0.00051 (J)
3/3/2021	<0.001	
3/4/2021		0.00025 (J)
9/1/2021	<0.001	
9/3/2021		<0.001
2/10/2022	<0.001	
2/11/2022		<0.001
Mean	0.0009118	0.0005517
Std. Dev.	0.0002619	0.0004303
Upper Lim.	0.001	0.0004876
Lower Lim.	0.00036	0.0001631

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.03		
7/28/2016				0.0019 (J)		
9/20/2016				0.0021 (J)		
11/8/2016				0.0024 (J)		
1/16/2017				0.0022 (J)		
3/9/2017				0.0025 (J)		
5/2/2017				0.0019 (J)		
7/10/2017				0.0018 (J)		
10/12/2017					0.0095 (J)	0.004 (J)
11/20/2017					0.0083 (J)	
11/21/2017						0.0043 (J)
1/11/2018						0.0044 (J)
1/12/2018					0.0089 (J)	
2/19/2018						<0.03
2/20/2018					0.0082 (J)	
3/30/2018				0.0039 (J)		
4/3/2018					0.0097 (J)	0.0047 (J)
6/12/2018				0.0017 (J)		
6/27/2018						0.0042 (J)
6/28/2018					0.0093 (J)	
8/7/2018					0.0092 (J)	0.0038 (J)
9/24/2018					0.0083 (J)	0.0037 (J)
9/27/2018				0.0017 (J)		
10/16/2018	0.0052 (J)					
3/6/2019				0.0025 (J)		
4/4/2019				0.0018 (J)		
8/22/2019					0.0082 (J)	0.0035 (J)
9/26/2019	<0.03					
9/27/2019				0.0017 (J)		
10/9/2019					0.0081 (J)	0.0032 (J)
3/25/2020	0.0011 (J)				0.0081 (J)	0.0029 (J)
3/26/2020				0.0021 (J)		
9/23/2020		0.03 (J)				
9/24/2020	0.011 (J)		0.013 (J)	0.0035 (J)		
9/25/2020					0.0069 (J)	0.0025 (J)
2/9/2021	0.021 (J)	0.018 (J)	0.016 (J)	0.0026 (J)	0.0067 (J)	
2/10/2021						0.0021 (J)
3/3/2021	0.022 (J)	0.02 (J)				
3/4/2021			0.016 (J)	0.0026 (J)	0.0067 (J)	0.0021 (J)
8/25/2021		0.033		0.0026 (J)		
8/26/2021			0.015 (J)		0.007 (J)	0.0021 (J)
9/1/2021	0.013 (J)					
2/8/2022						0.0023 (J)
2/10/2022	0.014 (J)	0.036	0.015 (J)	0.0029 (J)	0.0068 (J)	
Mean	0.01279	0.0274	0.015	0.00297	0.008119	0.00405
Std. Dev.	0.007132	0.007987	0.001225	0.002893	0.001038	0.003054
Upper Lim.	0.02035	0.04078	0.01705	0.0029	0.008794	0.0044
Lower Lim.	0.005228	0.01402	0.01295	0.0018	0.007443	0.0023

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	0.0257 (J)					
8/31/2016		0.006 (J)				
9/1/2016			0.0034 (J)			
9/2/2016						0.0029 (J)
11/14/2016						0.0044 (J)
11/15/2016			0.0044 (J)			
11/16/2016	0.0221 (J)	0.0095 (J)				
2/24/2017		0.0104 (J)				
2/27/2017	0.0208 (J)		0.0036 (J)			
2/28/2017						0.0038 (J)
5/9/2017			0.0038 (J)			0.0057 (J)
5/10/2017	0.0316 (J)	0.0123 (J)				
7/11/2017	0.0281 (J)	0.0131 (J)				
7/13/2017			0.0036 (J)			0.007 (J)
9/22/2017						0.0067 (J)
9/29/2017						0.0064 (J)
10/6/2017						0.0065 (J)
10/11/2017			0.0036 (J)			
10/12/2017	0.0331 (J)	0.013 (J)			0.0271 (J)	
11/21/2017					0.0255 (J)	
1/11/2018					0.0271 (J)	
2/20/2018					<0.03	
3/30/2018						0.0061 (J)
4/3/2018					0.027 (J)	
4/4/2018	0.037 (J)	0.016 (J)	0.0039 (J)			
6/13/2018						0.0065 (J)
6/29/2018					0.032 (J)	
8/6/2018					0.033 (J)	
9/20/2018	0.049 (J)	0.019 (J)	0.0036 (J)			
9/24/2018					0.028 (J)	
9/26/2018						0.0063 (J)
10/16/2018				0.0011 (J)		
3/6/2019						0.0057 (J)
4/4/2019						0.0058 (J)
8/21/2019		0.015 (J)				
8/22/2019	0.047					
9/26/2019			0.0036 (J)	<0.03		0.0041 (J)
10/9/2019	0.037	0.018 (J)				
3/25/2020	0.045	0.016 (J)	0.0037 (J)	0.011 (J)		0.0032 (J)
9/24/2020	0.05		0.0037 (J)	0.001 (J)		
9/25/2020		0.018 (J)			0.028 (J)	
10/7/2020						0.0014 (J)
2/9/2021		0.024 (J)	0.0038 (J)		0.024 (J)	
2/10/2021	0.058			0.0012 (J)		0.0011 (J)
3/4/2021	0.059	0.025 (J)	0.0035 (J)	0.0015 (J)	0.028 (J)	<0.03
8/25/2021	0.053				0.023 (J)	
9/1/2021			0.0036 (J)	0.0019 (J)		
9/3/2021						0.00086 (J)
9/27/2021		0.0092 (J)				
2/8/2022		0.016 (J)	0.0036 (J)			
2/10/2022	0.052			0.0021 (J)	0.017 (J)	
2/11/2022						0.00093 (J)

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
Mean	0.04053	0.01503	0.003693	0.00435	0.02575	0.005019
Std. Dev.	0.0127	0.005157	0.0002314	0.005458	0.005122	0.003162
Upper Lim.	0.04879	0.01839	0.0038	0.015	0.02955	0.006428
Lower Lim.	0.03226	0.01168	0.0035	0.001	0.02194	0.00297

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
6/7/2016	9.8E-05 (J)					
7/28/2016	<0.0002					
8/30/2016				<0.0002		
8/31/2016					<0.0002	
9/1/2016						<0.0002
9/20/2016	<0.0002					
11/8/2016	<0.0002					
11/15/2016						<0.0002
11/16/2016				<0.0002	<0.0002	
1/16/2017	<0.0002					
2/24/2017					<0.0002	
2/27/2017				<0.0002		<0.0002
3/9/2017	<0.0002					
5/2/2017	<0.0002					
5/9/2017						<0.0002
5/10/2017				<0.0002	<0.0002	
7/10/2017	<0.0002					
7/11/2017				<0.0002	<0.0002	
7/13/2017						<0.0002
10/11/2017						<0.0002
10/12/2017		<0.0002	<0.0002	<0.0002	<0.0002	
11/20/2017		8E-05 (J)				
11/21/2017			6E-05 (J)			
1/11/2018			<0.0002			
1/12/2018		<0.0002				
2/19/2018			<0.0002			
2/20/2018		<0.0002				
3/30/2018	<0.0002					
4/3/2018		<0.0002	<0.0002			
4/4/2018				<0.0002	<0.0002	<0.0002
6/27/2018			<0.0002			
6/28/2018		3.7E-05 (J)				
8/7/2018		<0.0002	<0.0002			
9/20/2018				4.8E-05 (J)	5.2E-05 (J)	6.1E-05 (J)
9/24/2018		<0.0002	<0.0002			
9/27/2018	<0.0002					
3/6/2019	<0.0002					
8/21/2019					<0.0002	
8/22/2019		<0.0002	<0.0002	<0.0002		
2/9/2021	0.00015 (J)	<0.0002			<0.0002	0.00014 (J)
2/10/2021			<0.0002	<0.0002		
3/4/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2021	<0.0002			<0.0002		
8/26/2021		<0.0002	<0.0002			
9/1/2021						<0.0002
9/27/2021					9E-05 (JB)	
2/8/2022			<0.0002		<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002		<0.0002		
Mean	0.0001899	0.0001782	0.0001892	0.0001883	0.0001802	0.0001834
Std. Dev.	2.849E-05	5.386E-05	3.883E-05	4.216E-05	4.906E-05	4.223E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00015	8E-05	6E-05	4.8E-05	9E-05	0.00014

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37
10/12/2017	<0.0002
11/21/2017	6E-05 (J)
1/11/2018	<0.0002
2/20/2018	<0.0002
4/3/2018	<0.0002
6/29/2018	<0.0002
8/6/2018	<0.0002
9/24/2018	<0.0002
9/25/2020	<0.0002
2/9/2021	<0.0002
3/4/2021	<0.0002
8/25/2021	<0.0002
2/10/2022	<0.0002
Mean	0.0001892
Std. Dev.	3.883E-05
Upper Lim.	0.0002
Lower Lim.	6E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YGWC-42	YGWC-43	YGWC-49	PZ-35
8/30/2016			0.0019 (J)			
8/31/2016				0.0022 (J)		
9/1/2016					<0.01	
11/15/2016					<0.01	
11/16/2016			0.0027 (J)	<0.01		
2/24/2017				<0.01		
2/27/2017			0.0031 (J)		0.0007 (J)	
5/9/2017					<0.01	
5/10/2017			0.0017 (J)	<0.01		
7/11/2017			0.0014 (J)	<0.01		
7/13/2017					<0.01	
10/11/2017					<0.01	
10/12/2017			<0.01	<0.01		
4/4/2018			<0.01	<0.01	<0.01	
9/20/2018			<0.01	<0.01	<0.01	
8/21/2019				0.0012 (J)		
8/22/2019			<0.01			
10/9/2019			<0.01	0.0012 (J)		
3/25/2020	<0.01		<0.01	0.0015 (J)	<0.01	0.0019 (J)
9/23/2020		0.0068 (J)				
9/24/2020	0.0022 (J)		0.00091 (J)		<0.01	<0.01
9/25/2020				0.0011 (J)		
2/9/2021	0.0038 (J)	0.0068 (J)		0.0012 (J)	<0.01	
2/10/2021			0.00094 (J)			<0.01
3/3/2021	0.0037 (J)	0.0049 (J)				
3/4/2021			0.00085 (J)	0.0011 (J)	<0.01	<0.01
8/25/2021		0.0081 (J)	0.00078 (J)			
9/1/2021	0.0014 (J)				<0.01	<0.01
9/27/2021				0.0062 (J)		
2/8/2022				0.002 (J)	<0.01	
2/10/2022	0.00089 (J)	0.0076 (J)	0.0008 (J)			<0.01
Mean	0.003665	0.00684	0.004692	0.005481	0.009336	0.00865
Std. Dev.	0.003321	0.001218	0.004295	0.004286	0.002486	0.003307
Upper Lim.	0.004175	0.008881	0.01	0.01	0.01	0.01
Lower Lim.	0.0009024	0.004799	0.00085	0.0012	0.0007	0.0019

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A
9/2/2016		0.0027 (J)
11/14/2016		0.0071 (J)
2/28/2017		0.0038 (J)
5/9/2017		0.0025 (J)
7/13/2017		0.0014 (J)
9/22/2017		<0.01
9/29/2017		<0.01
10/6/2017		<0.01
10/12/2017	0.0022 (J)	
11/21/2017	0.0016 (J)	
1/11/2018	0.0015 (J)	
2/20/2018	<0.01	
3/30/2018		<0.01
4/3/2018	<0.01	
6/29/2018	0.0021 (J)	
8/6/2018	<0.01	
9/24/2018	<0.01	
3/6/2019		<0.01
3/25/2020		<0.01
9/25/2020	0.0016 (J)	
10/7/2020		0.0015 (J)
2/9/2021	0.0016 (J)	
2/10/2021		<0.01
3/4/2021	0.0024 (J)	<0.01
8/25/2021	0.0011 (J)	
9/3/2021		<0.01
2/10/2022	<0.01	
2/11/2022		<0.01
Mean	0.004931	0.007437
Std. Dev.	0.004184	0.003629
Upper Lim.	0.01	0.01
Lower Lim.	0.0015	0.0025

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				0.037		
7/28/2016				0.0385		
9/20/2016				0.0464		
11/8/2016				0.0521		
1/16/2017				0.0469		
3/9/2017				0.0437		
5/2/2017				0.0395		
7/10/2017				0.0386		
10/12/2017					0.265	0.0191
11/20/2017					0.246	
11/21/2017						0.0687
1/11/2018						0.069
1/12/2018					0.249	
2/19/2018						0.071
2/20/2018					0.253	
3/30/2018				0.028		
4/3/2018					0.23	0.067
6/12/2018				0.026		
6/27/2018						0.066
6/28/2018					0.23	
8/7/2018					0.2	0.061
9/24/2018					0.2	0.061
9/27/2018				0.023		
10/16/2018	0.0019 (J)					
3/6/2019				0.019		
4/4/2019				0.017		
8/22/2019					0.14	0.058
9/26/2019	<0.005					
9/27/2019				0.018		
10/9/2019					0.12	0.052
1/15/2020			0.045			
1/16/2020		0.0018 (J)				
3/25/2020	<0.005				0.099	0.057
3/26/2020				0.024		
9/23/2020		0.016				
9/24/2020	<0.005		0.026	0.031		
9/25/2020					0.076	0.046
2/9/2021	<0.005	<0.005	0.06	0.032	0.073	
2/10/2021						0.033
3/3/2021	<0.005	<0.005				
3/4/2021			0.061	0.037	0.076	0.037
8/25/2021		0.019		0.032		
8/26/2021			0.055		0.06	0.027
9/1/2021	0.0027 (J)					
2/8/2022						0.031
2/10/2022	0.0034 (J)	0.019	0.057	0.039	0.064	
Mean	0.004125	0.01097	0.05067	0.03344	0.1613	0.05149
Std. Dev.	0.001273	0.007869	0.01337	0.01015	0.07941	0.01701
Upper Lim.	0.005	0.0183	0.06572	0.0392	0.249	0.06255
Lower Lim.	0.0019	0.0002687	0.03336	0.02767	0.073	0.04042

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	0.0711				
9/1/2016		0.0086 (J)			
9/2/2016					0.0012 (J)
11/14/2016					<0.005
11/15/2016		0.0056 (J)			
11/16/2016	0.0313				
2/27/2017	0.0316	0.0098 (J)			
2/28/2017					0.0017 (J)
5/9/2017		0.0076 (J)			0.0018 (J)
5/10/2017	0.053				
7/11/2017	0.0697				
7/13/2017		0.0093 (J)			0.0031 (J)
9/22/2017					0.0024 (J)
9/29/2017					0.002 (J)
10/6/2017					<0.005
10/11/2017		0.0089 (J)			
10/12/2017	0.0594			0.234	
11/21/2017				0.225	
1/11/2018				0.168	
2/20/2018				0.315	
3/30/2018					<0.005
4/3/2018				0.28	
4/4/2018	0.055	<0.005			
6/13/2018					0.0024 (J)
6/29/2018				0.26	
8/6/2018				0.21	
9/20/2018	0.041	0.0081 (J)			
9/24/2018				0.33	
9/26/2018					0.0037 (J)
10/16/2018			<0.005		
3/6/2019					0.0033 (J)
4/4/2019					0.0029 (J)
8/22/2019	0.047				
9/26/2019		0.0077 (J)	<0.005		0.0019 (J)
10/9/2019	0.042				
3/25/2020	0.046	0.0085 (J)	<0.005		0.0024 (J)
9/24/2020	0.046	0.0091 (J)	<0.005		
9/25/2020				0.32	
10/7/2020					<0.005
2/9/2021		0.0079 (J)		0.28	
2/10/2021	0.043		<0.005		<0.005
3/4/2021	0.048	0.0058	<0.005	0.27	<0.005
8/25/2021	0.043			0.2	
9/1/2021		0.0066	0.0016 (J)		
9/3/2021					<0.005
2/8/2022		0.0075			
2/10/2022	0.044		0.003 (J)	0.2	
2/11/2022					<0.005
Mean	0.04819	0.007733	0.004325	0.2532	0.00344
Std. Dev.	0.0113	0.001429	0.001305	0.05155	0.001421
Upper Lim.	0.05555	0.008701	0.005	0.2916	0.002616
Lower Lim.	0.04084	0.006765	0.0016	0.2149	0.00179

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49
9/1/2016	<0.001
11/15/2016	<0.001
2/27/2017	9E-05 (J)
5/9/2017	<0.001
7/13/2017	<0.001
10/11/2017	<0.001
4/4/2018	<0.001
9/20/2018	<0.001
9/26/2019	<0.001
3/25/2020	<0.001
9/24/2020	<0.001
2/9/2021	<0.001
2/8/2022	<0.001
Mean	0.00093
Std. Dev.	0.0002524
Upper Lim.	0.001
Lower Lim.	9E-05

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:44 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**YGWA-20S (bg)**	**-0.0005346**	**-112**	**-87**	**Yes**	**21**	**47.62**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	**YGWC-38**	**-0.0007575**	**-90**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0.0004358**	**94**	**81**	**Yes**	**20**	**70**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.055**	**-107**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - All Results

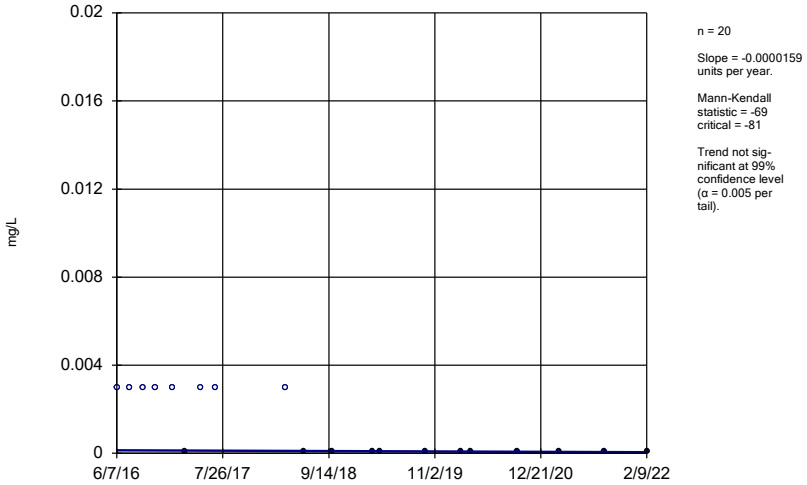
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:44 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	YGWA-17S (bg)	-0.0000159	-69	-81	No	20	40	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-18I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-18S (bg)	-0.0005455	-67	-87	No	21	42.86	n/a	n/a	0.01	NP
Beryllium (mg/L)	**YGWA-20S (bg)**	**-0.0005346**	**-112**	**-87**	**Yes**	**21**	**47.62**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	YGWA-21I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-39 (bg)	0	-10	-63	No	17	94.12	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-40 (bg)	-0.00001094	-24	-63	No	17	11.76	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-4I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-5D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-5I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	**YGWC-38**	**-0.0007575**	**-90**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	YGWA-47 (bg)	0	-25	-48	No	14	64.29	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-2 (bg)	0	0	199	No	37	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-14S (bg)	0	-19	-74	No	19	10.53	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-1D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-1I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-2I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-30I (bg)	0	-13	-74	No	19	89.47	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-3D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	YGWA-3I (bg)	0	-10	-74	No	19	94.74	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0.0004358**	**94**	**81**	**Yes**	**20**	**70**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	37	87	No	21	90.48	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	2	63	No	17	94.12	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	-0.000656	-47	-63	No	17	35.29	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	3	87	No	21	90.48	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	18	87	No	21	95.24	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWC-38**	**-0.055**	**-107**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-47 (bg)	0	17	38	No	12	83.33	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	199	No	37	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	42	74	No	19	68.42	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	PZ-37	-0.003058	-4	-43	No	13	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = -0.0000159 units per year.

Mann-Kendall statistic = -69
critical = -81

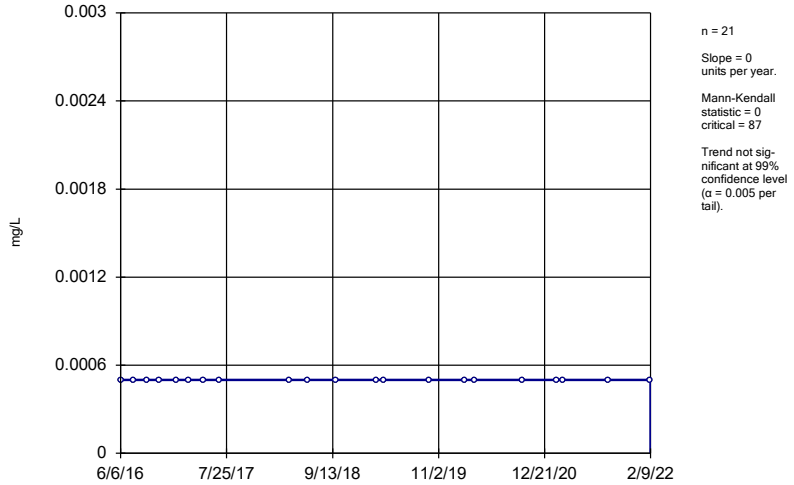
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

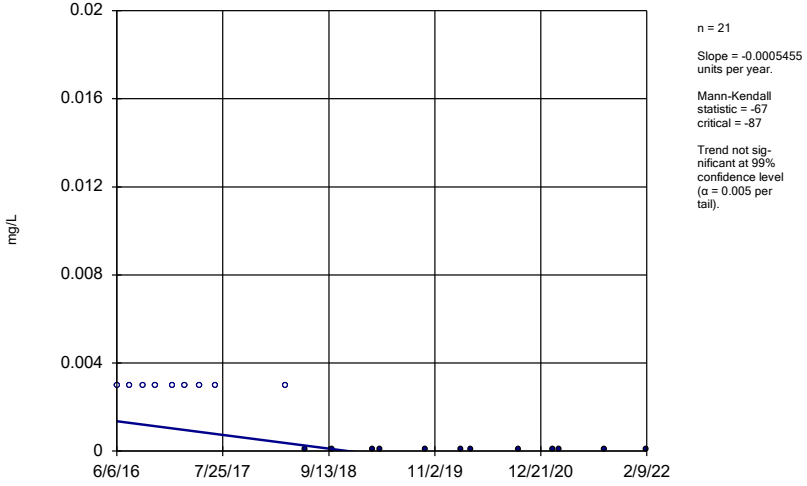
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 21

Slope = -0.0005455 units per year.

Mann-Kendall statistic = -67
critical = -87

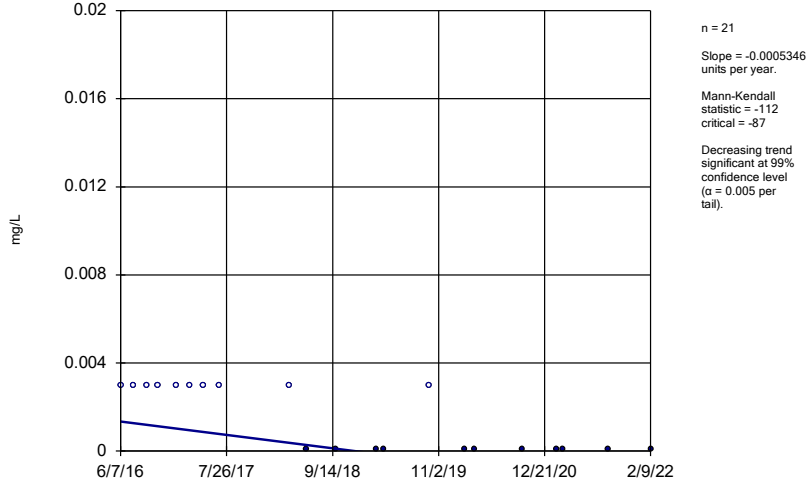
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 21

Slope = -0.0005346 units per year.

Mann-Kendall statistic = -112
critical = -87

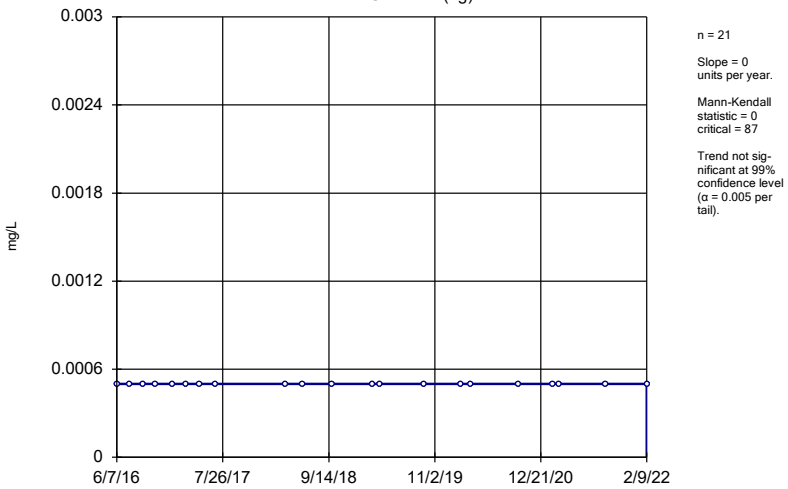
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 87

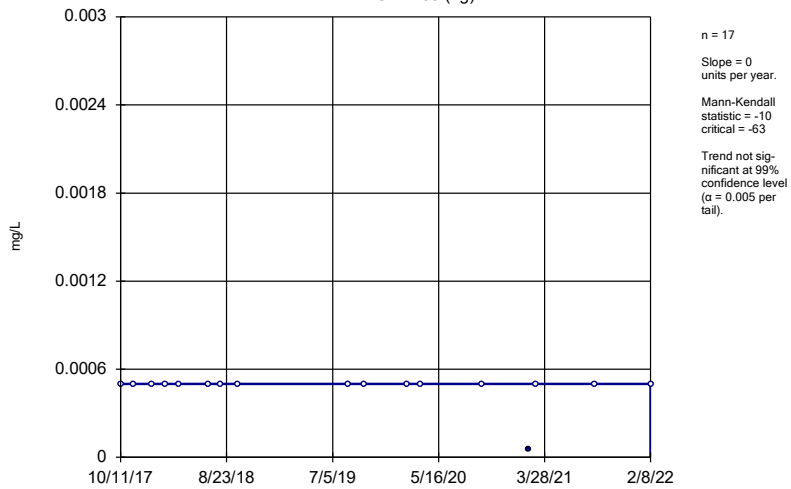
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = 0
units per year.

Mann-Kendall
statistic = -10
critical = -63

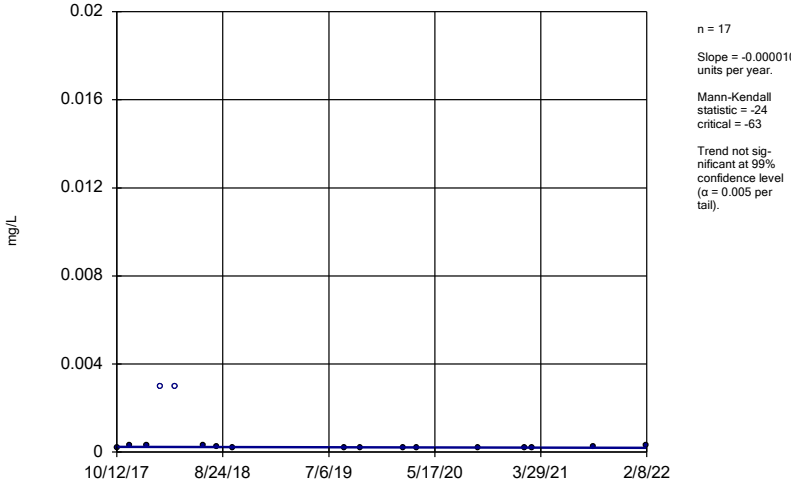
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -0.00001094
units per year.

Mann-Kendall
statistic = -24
critical = -63

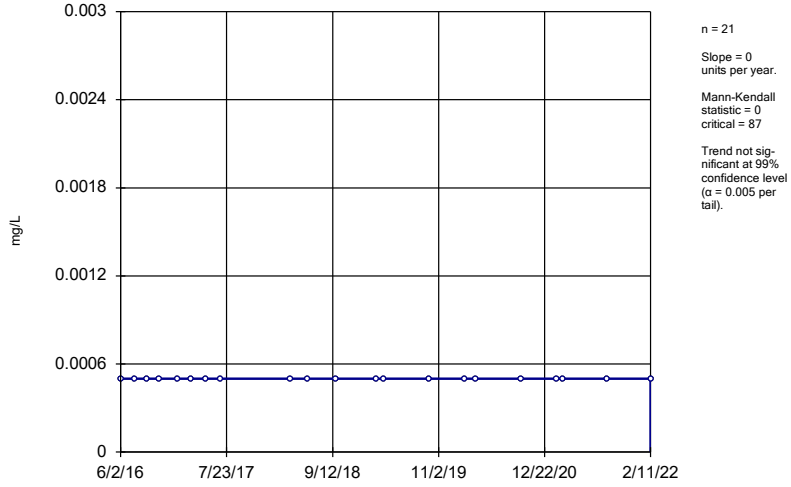
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 87

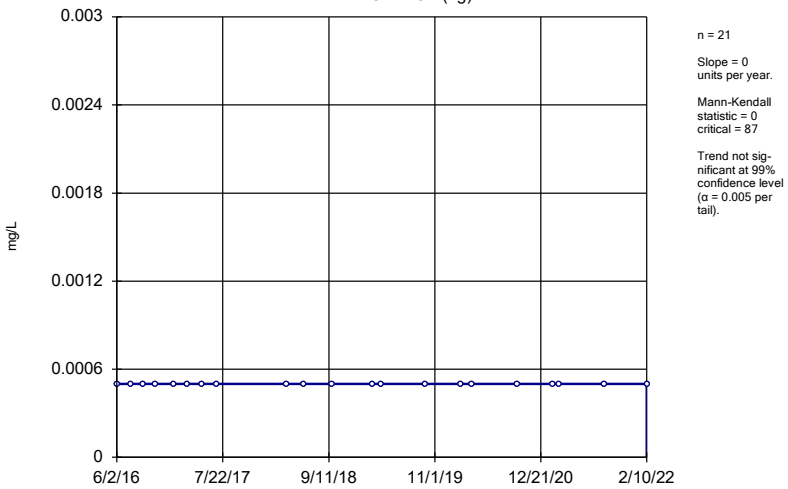
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 87

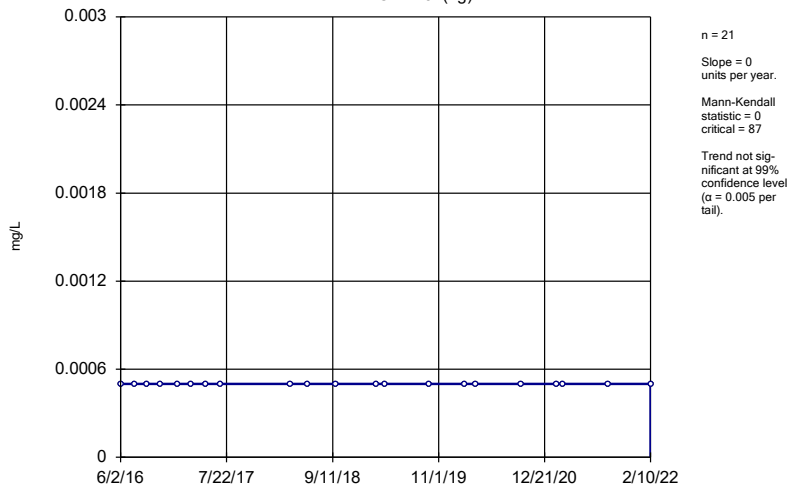
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 87

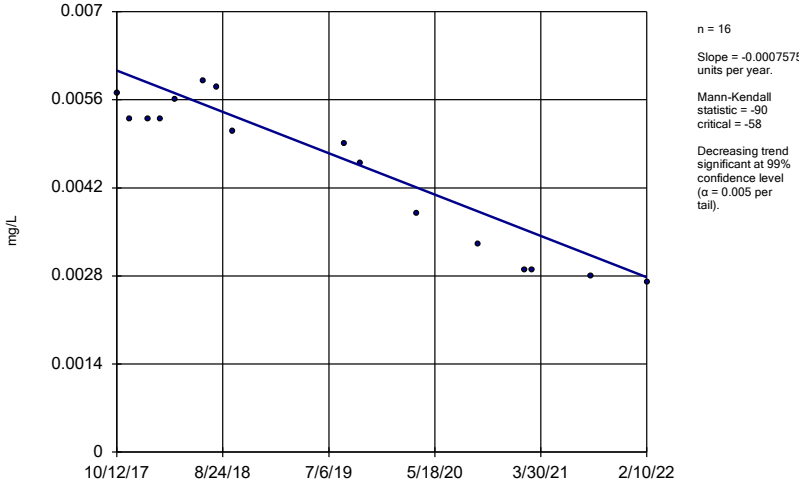
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 16

Slope = -0.0007575
units per year.

Mann-Kendall
statistic = -90
critical = -58

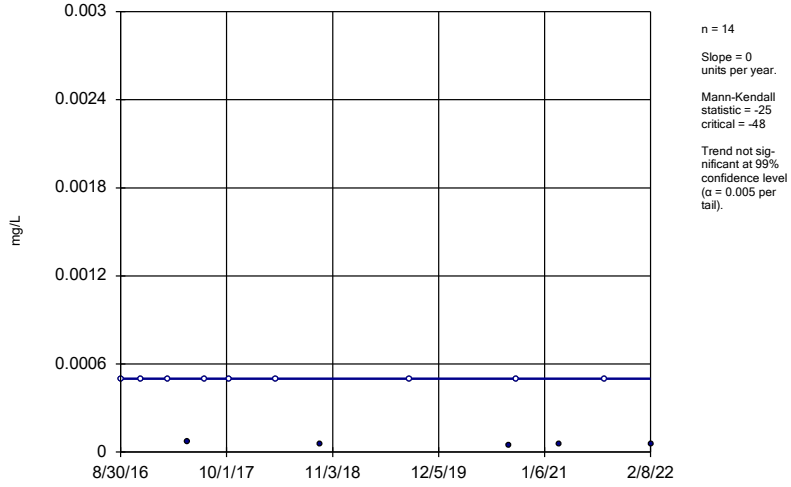
Decreasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = 0
units per year.

Mann-Kendall
statistic = -25
critical = -48

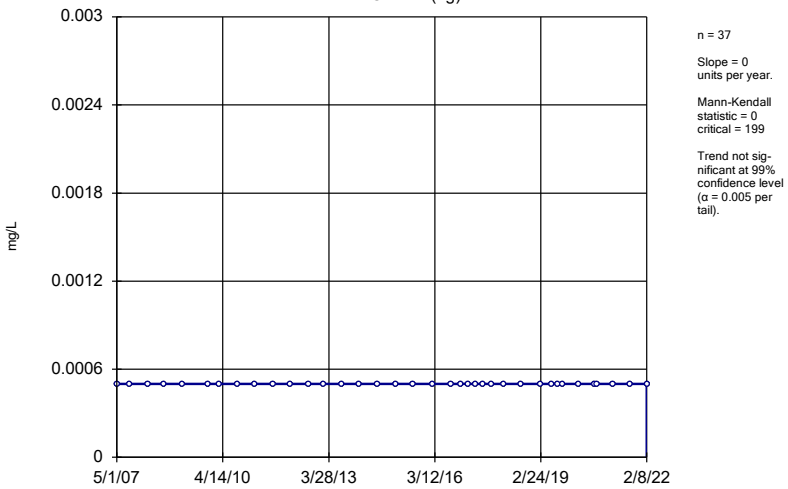
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 37

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 199

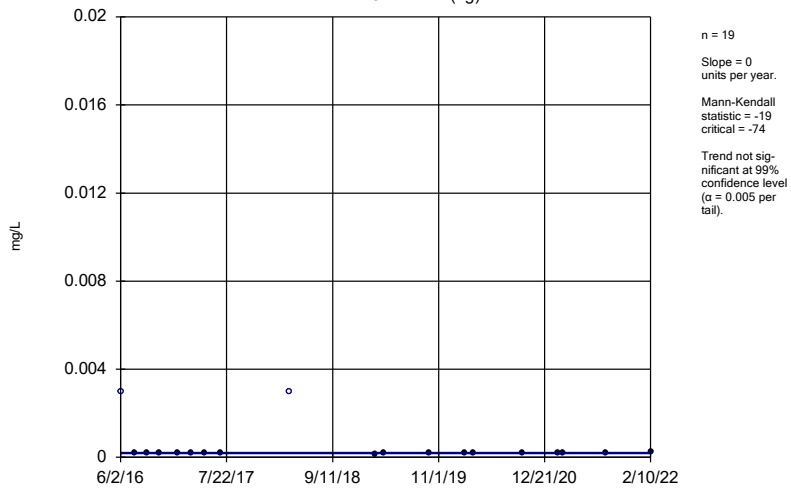
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -19
critical = -74

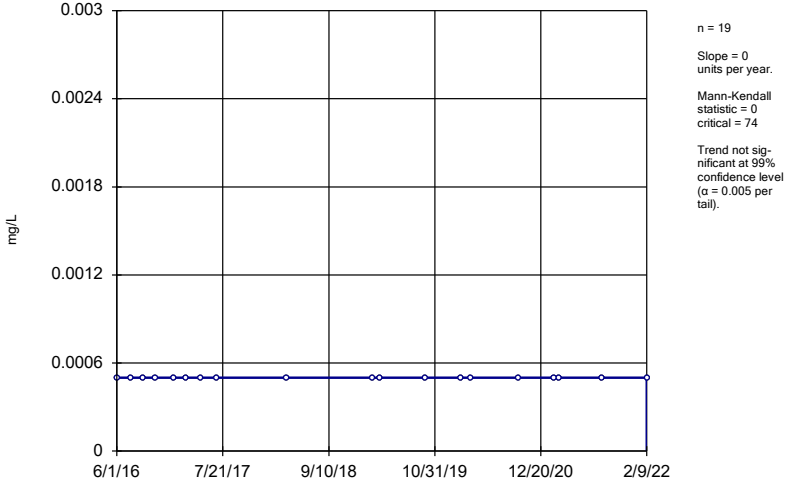
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

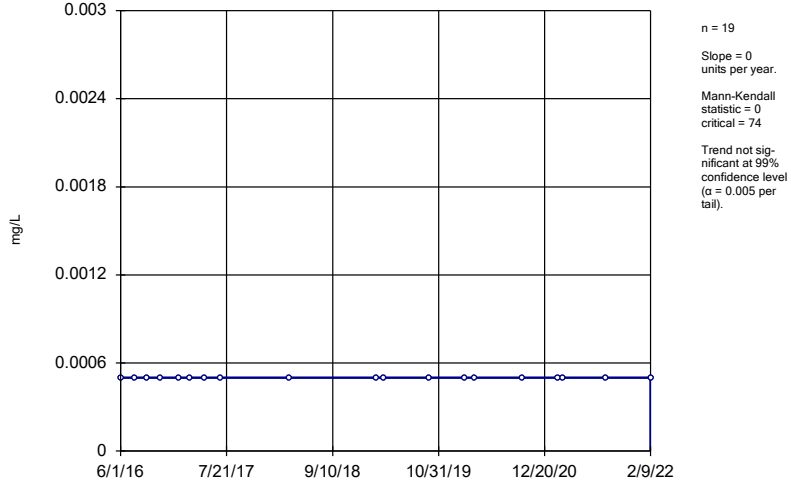
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

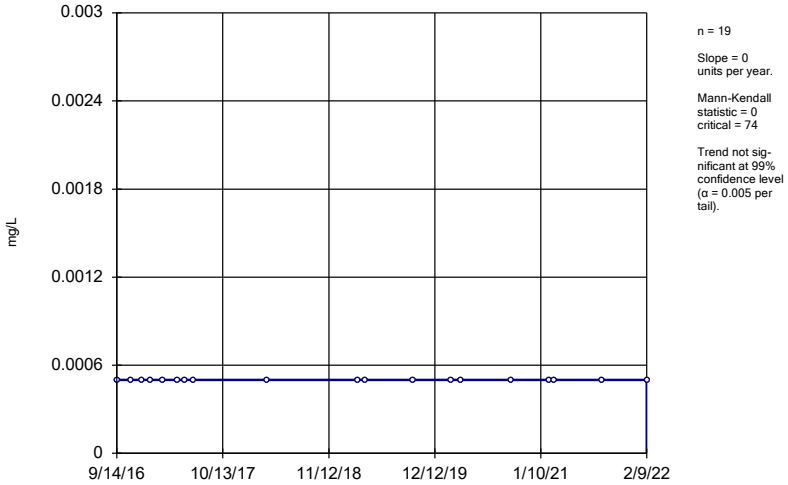
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 74

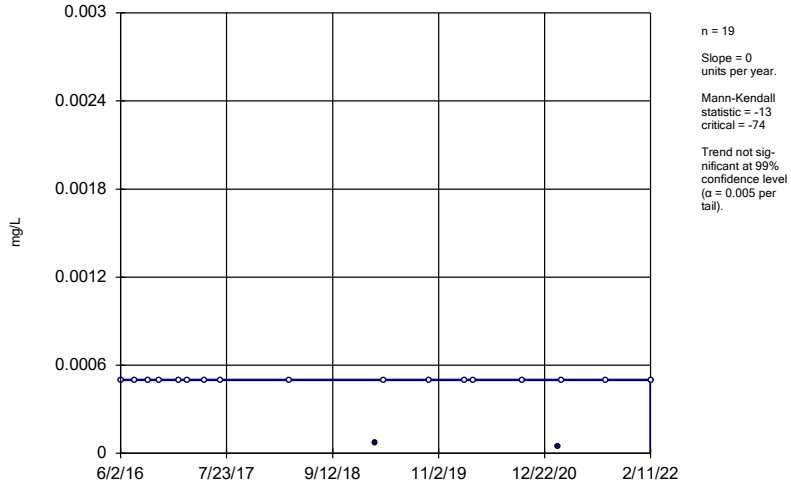
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -13 critical = -74

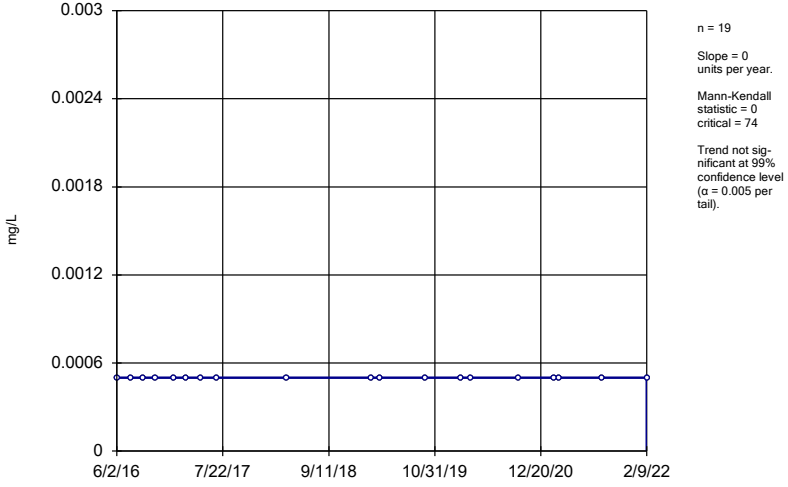
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 74

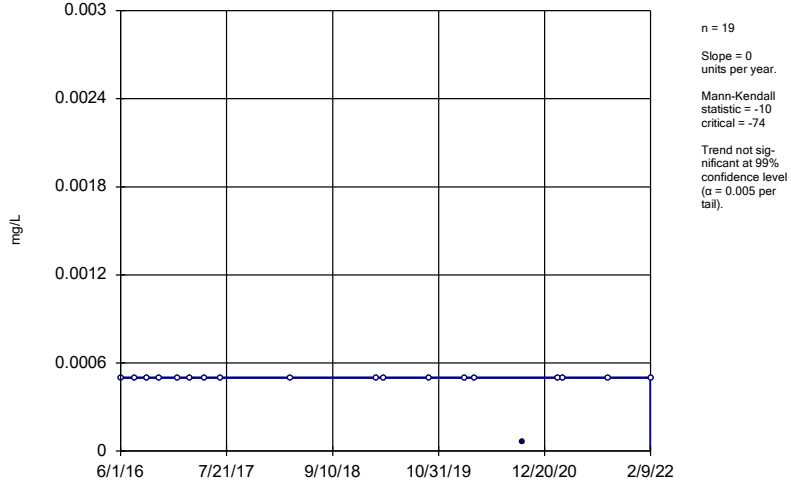
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -10 critical = -74

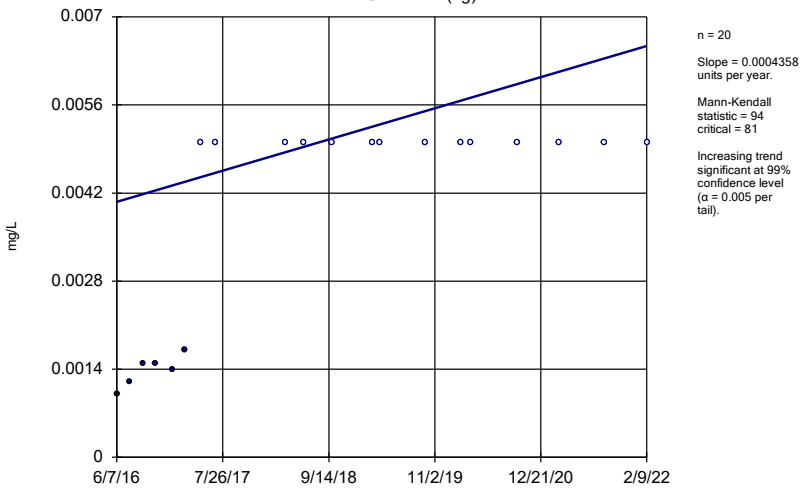
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 0.0004358 units per year.

Mann-Kendall statistic = 94
critical = 81

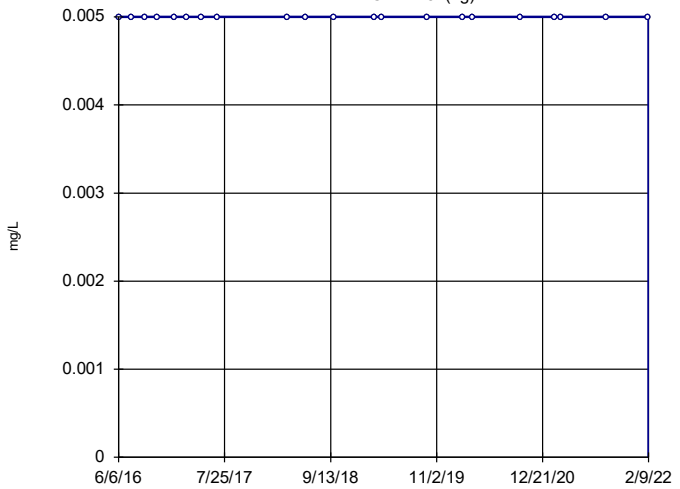
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

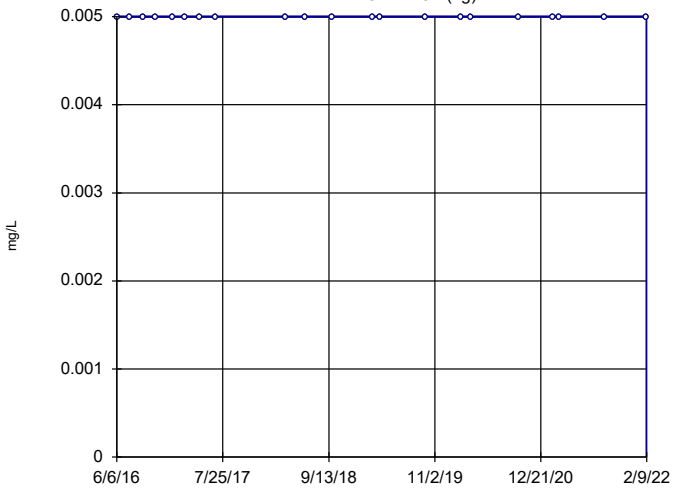
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

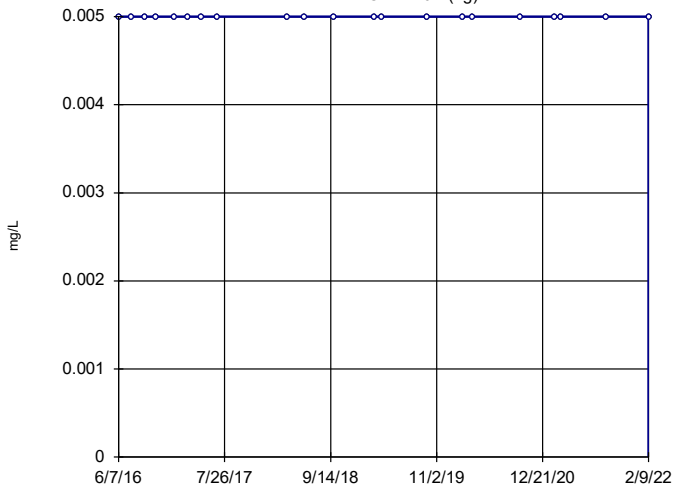
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

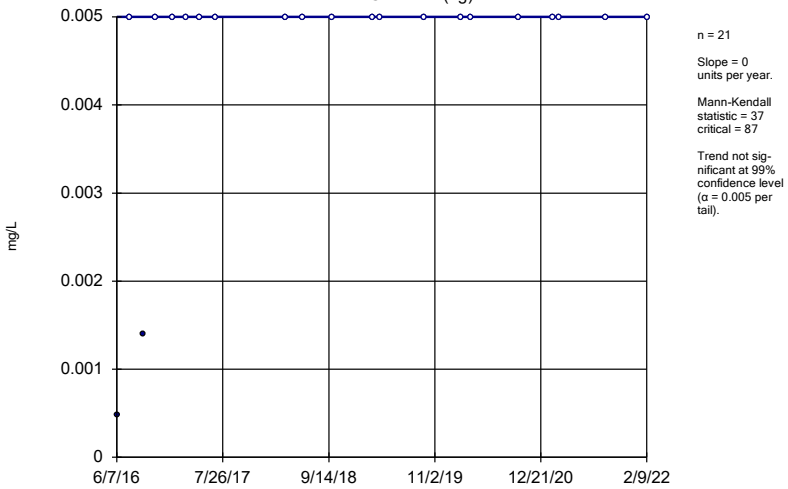
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 37
critical = 87

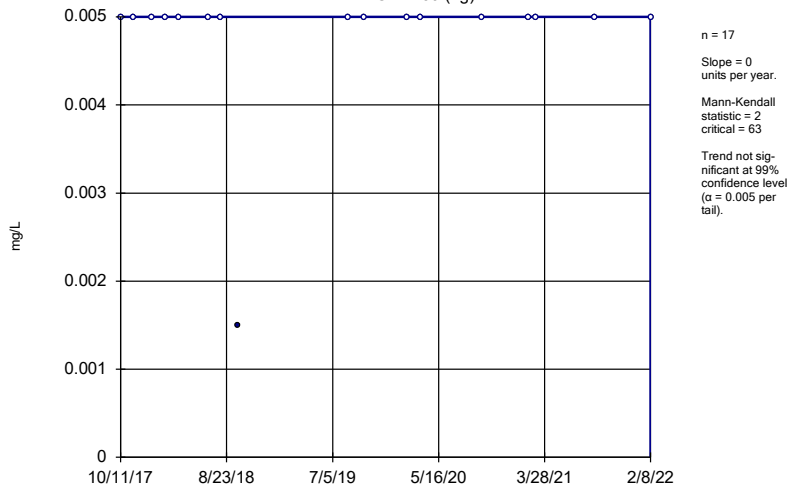
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 63

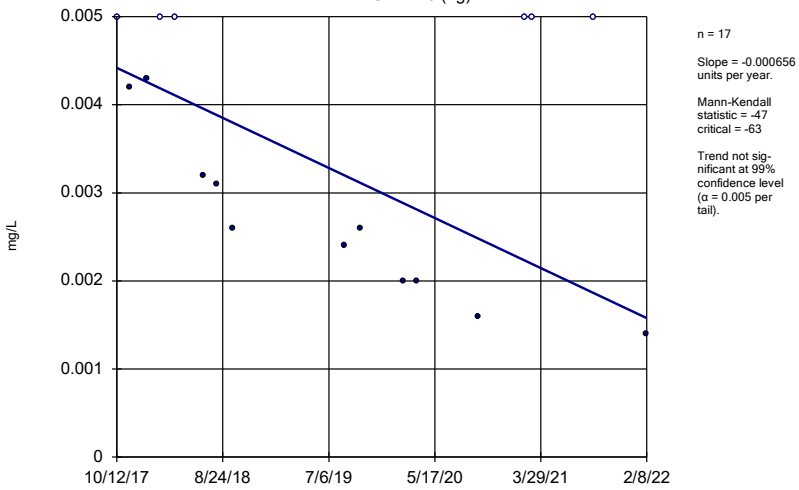
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -0.000656 units per year.

Mann-Kendall statistic = -47
critical = -63

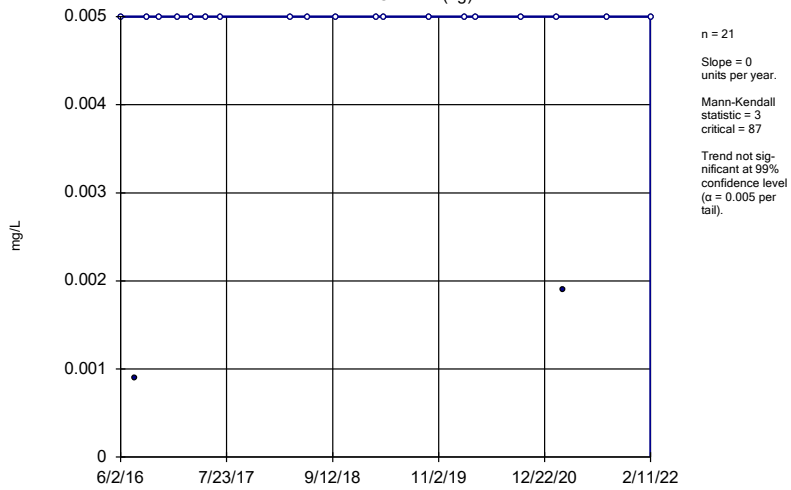
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 87

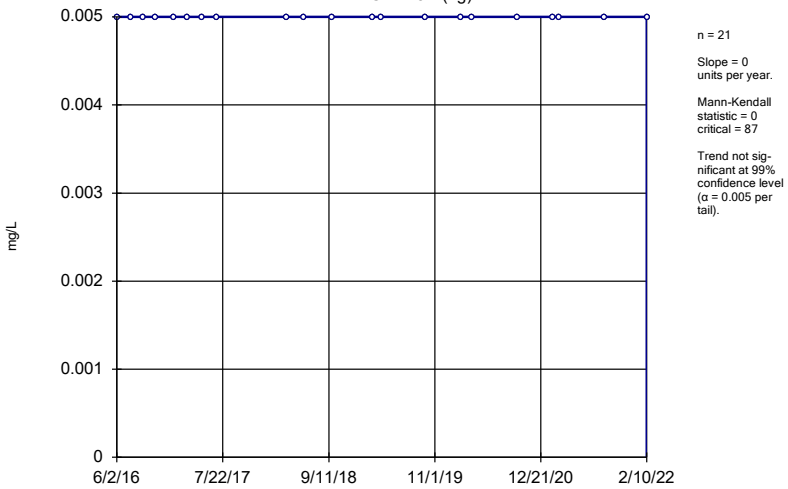
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 87

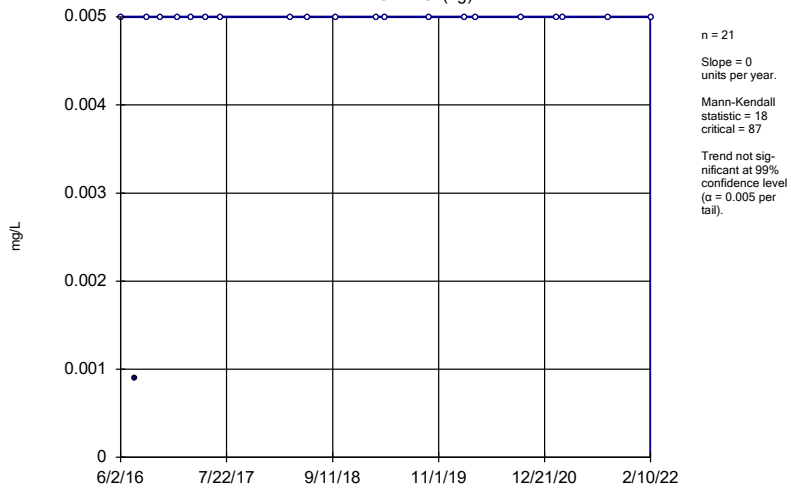
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 18 critical = 87

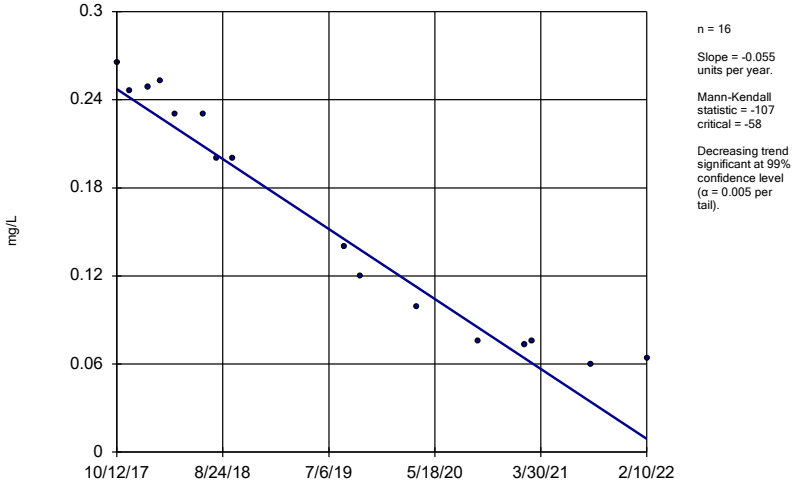
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 16

Slope = -0.055 units per year.

Mann-Kendall statistic = -107 critical = -58

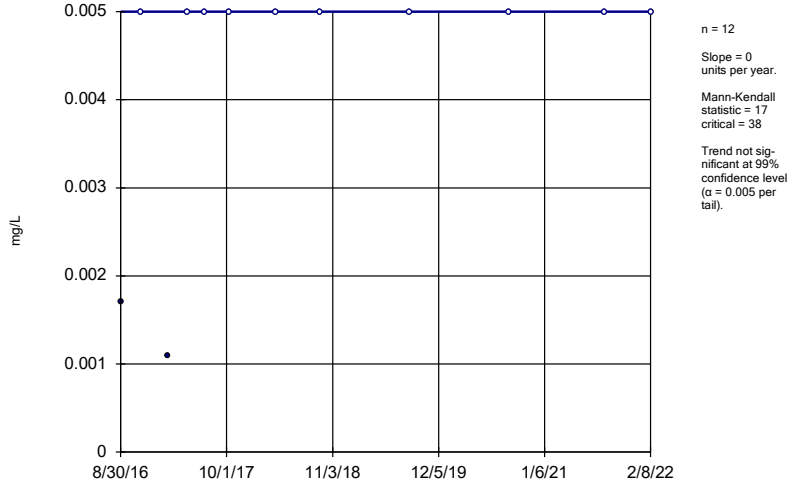
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 12

Slope = 0 units per year.

Mann-Kendall statistic = 17 critical = 38

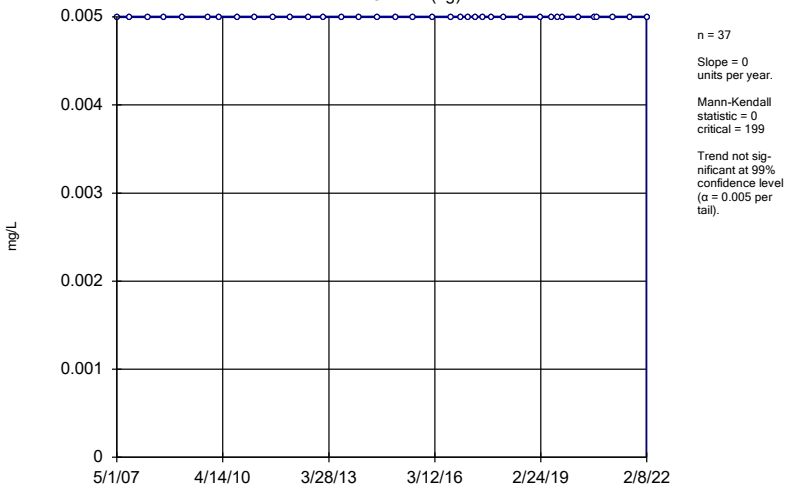
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 37

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 199

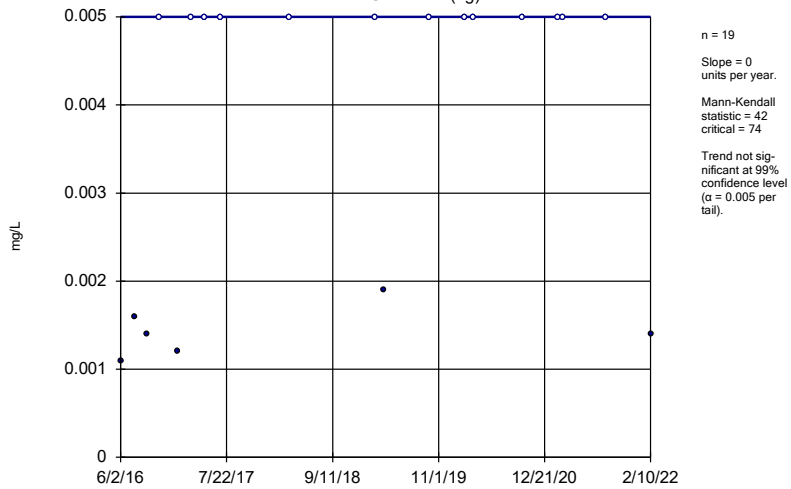
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 42
critical = 74

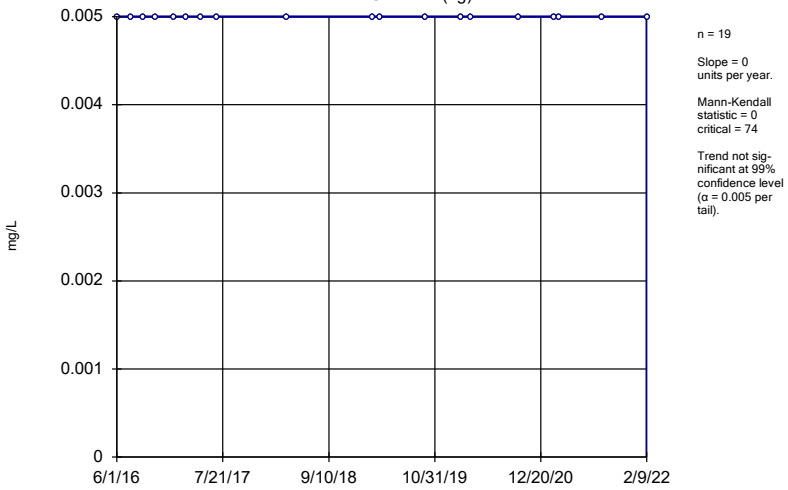
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 74

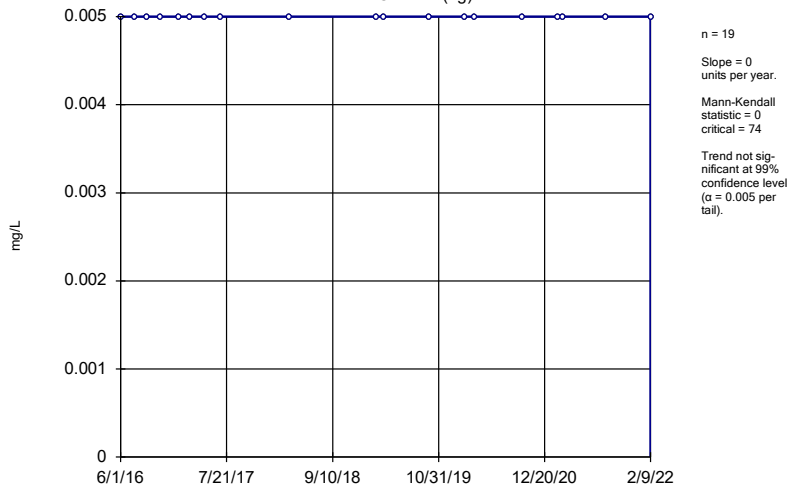
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 19

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 74

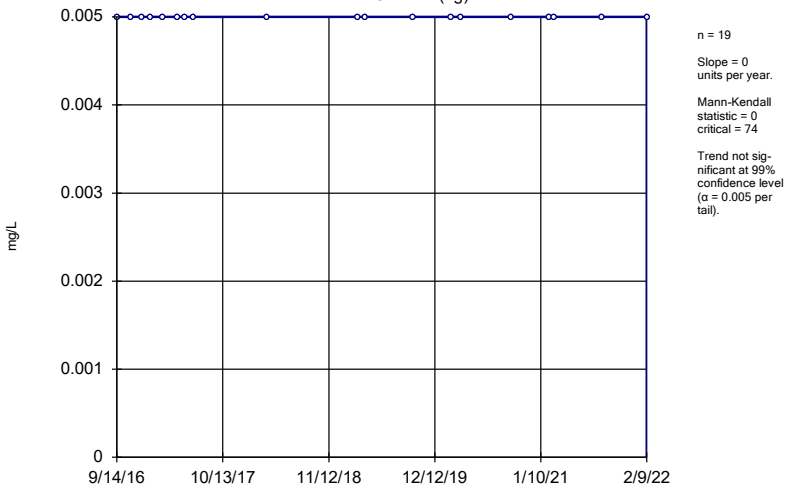
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

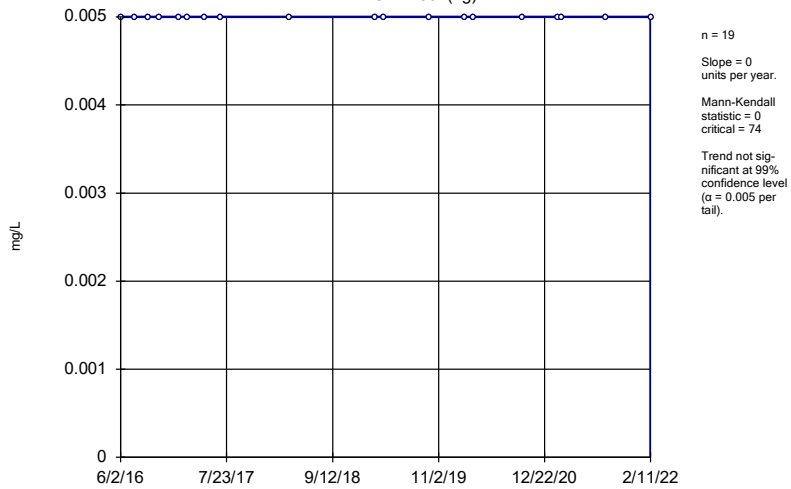
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

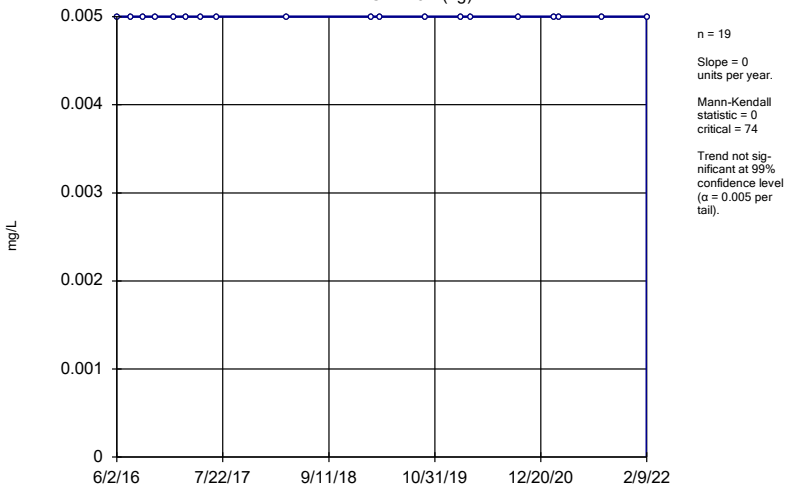
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

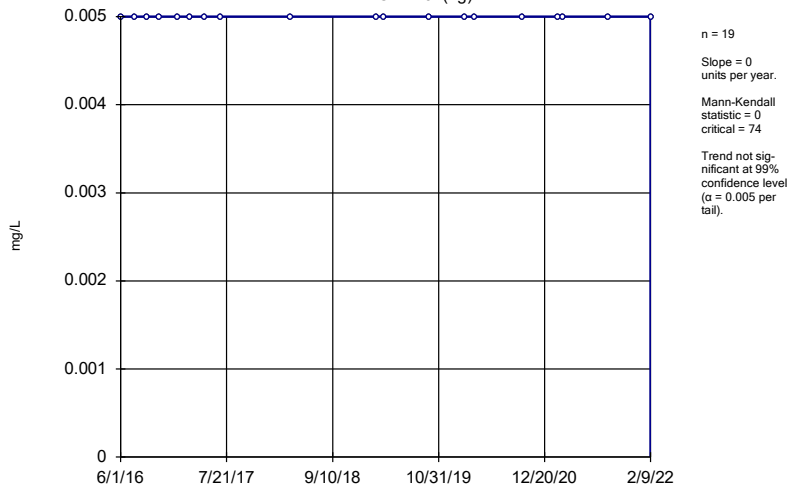
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 19

Slope = 0 units per year.

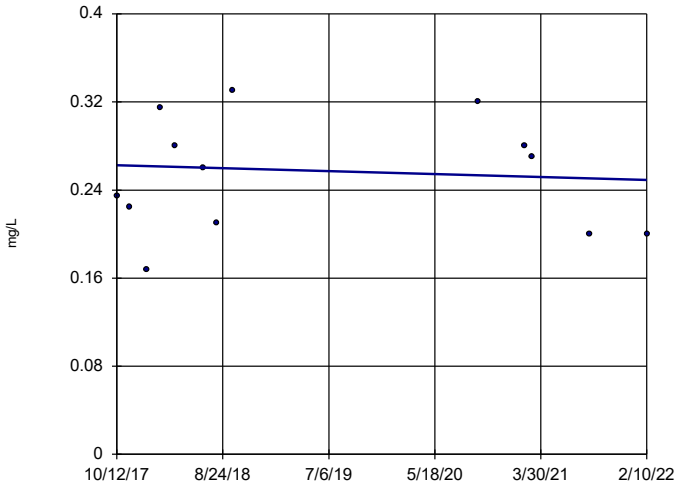
Mann-Kendall statistic = 0
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

PZ-37



n = 13

Slope = -0.003058 units per year.

Mann-Kendall statistic = -4
critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE J.

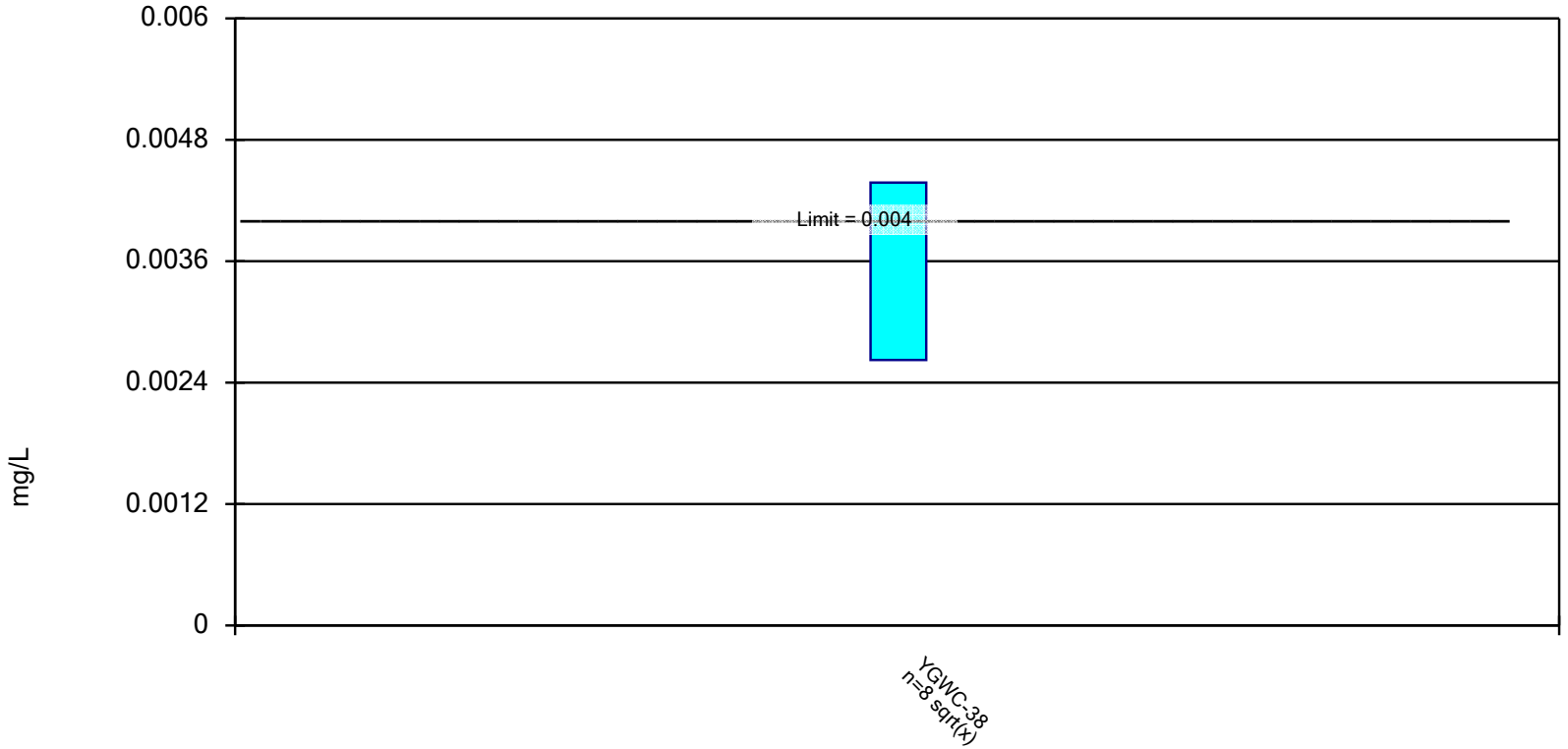
Confidence Interval - Beryllium YGWC-38

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YGWC-38	0.004376	0.002624	0.004	No	8	0.003488	0.0008576	0	None	sqrt(x)	0.01	Param.

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/28/2022 1:34 PM View: Appendix IV - Beryllium

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 1:35 PM View: Appendix IV - Beryllium

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38
8/22/2019	0.0049
10/9/2019	0.0046
3/25/2020	0.0038
9/25/2020	0.0033
2/9/2021	0.0029 (J)
3/4/2021	0.0029
8/26/2021	0.0028
2/10/2022	0.0027
Mean	0.003488
Std. Dev.	0.0008576
Upper Lim.	0.004376
Lower Lim.	0.002624

FIGURE K.

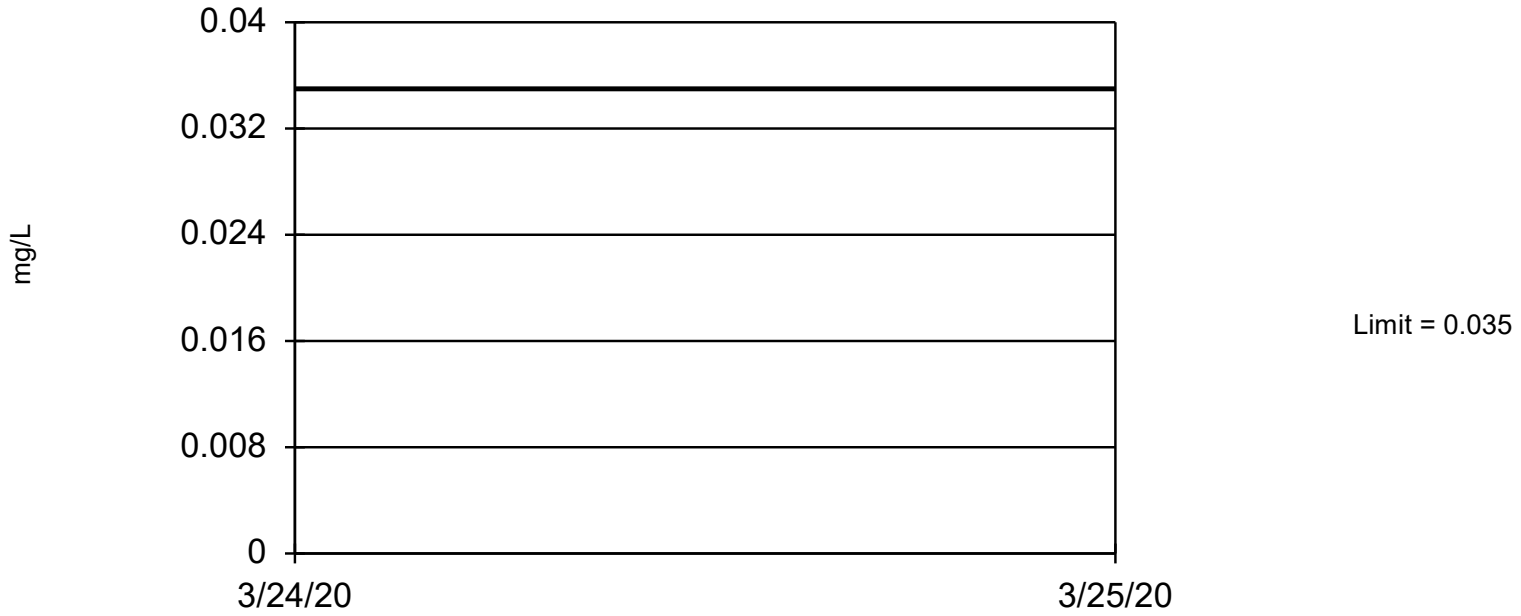
Upper Tolerance Limit Summary Table - Cobalt

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:18 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	307	n/a	n/a	69.71	n/a	n/a	NaN	NP Inter(NDs)

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 307 background values. 69.71% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 4/28/2022 1:18 PM View: Appendix IV - UTLs Cobalt

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE L.

YATES AMA-R6 GWPS - JUNE 2020				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Cobalt, Total (mg/L)		0.006	0.035	0.035

**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 M.

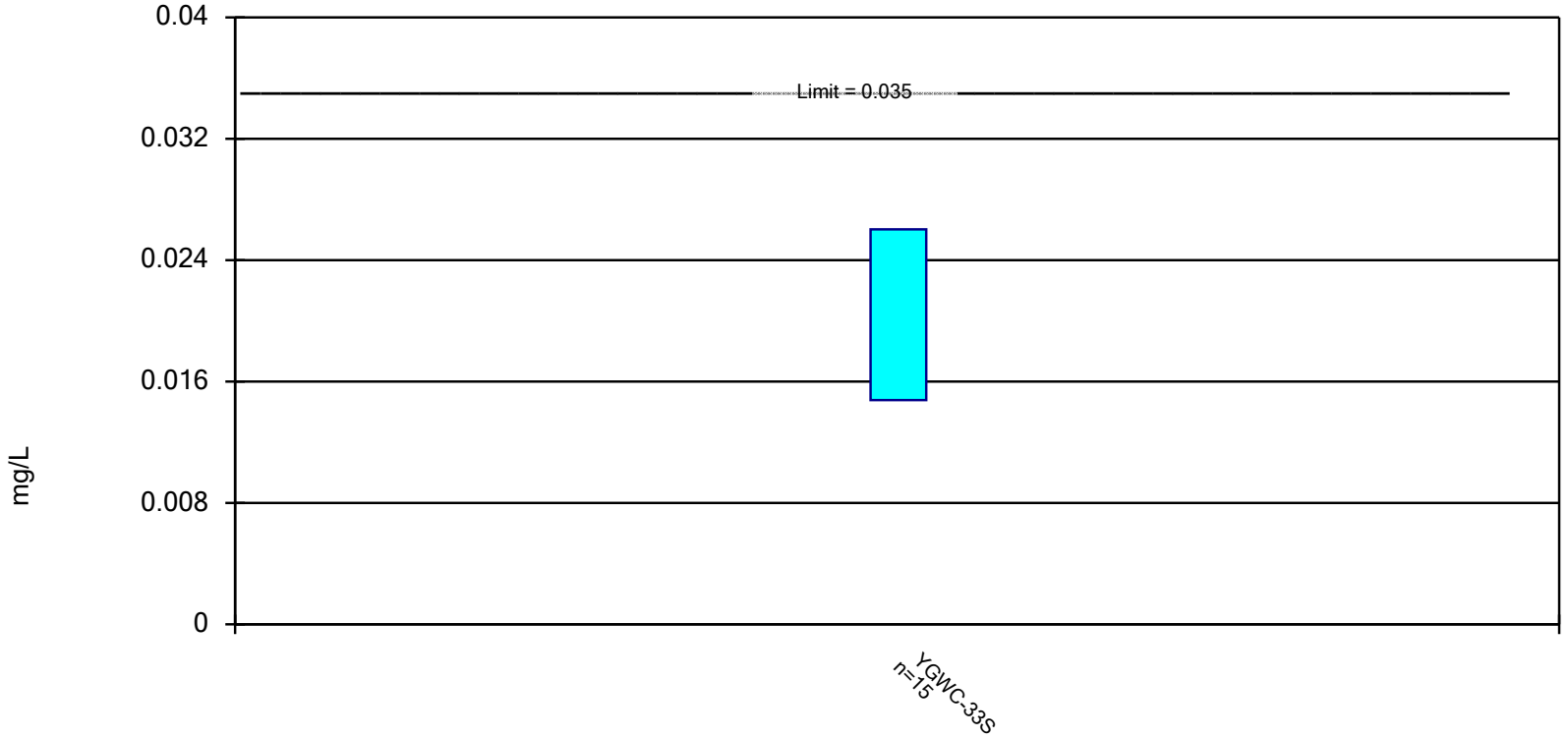
Confidence Interval - Cobalt YGWC-33S

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	YGWC-33S	0.02603	0.01477	0.035	No	15	0.0204	0.008309	0	None	No	0.01	Param.

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 4/28/2022 1:22 PM View: Appendix IV - Cobalt

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 1:23 PM View: Appendix IV - Cobalt

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-33S
6/8/2016	0.037
8/1/2016	0.0297
9/21/2016	0.0237
11/14/2016	0.0144
1/17/2017	0.0095 (J)
3/1/2017	0.0125
5/3/2017	0.0151
7/10/2017	0.0121
3/30/2018	0.013
6/12/2018	0.014
9/26/2018	0.023
3/6/2019	0.028
4/4/2019	0.031
9/26/2019	0.023
3/25/2020	0.02
Mean	0.0204
Std. Dev.	0.008309
Upper Lim.	0.02603
Lower Lim.	0.01477

Appendix III Statistically Significant Increase Summary (February 2022)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42
Total Dissolved Solids	YGWC-38, YGWC-41, YGW-42, YGWC-43

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