2022 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates – Ash Pond 2
Newnan, Georgia

August 31, 2022

2022 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates – Ash Pond 2
Newman, Georgia

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Summary

This summary of the 2022 Semiannual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program for the first half of 2022 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Pond (AP) AP-2 (the Site). Arcadis U.S., Inc. (Arcadis) prepared this summary on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam-generating units. Five of the units were retired in 2015, and two units were converted from coal to natural gas. CCR materials resulting from power generation have historically been transferred and stored at the Site. CCR has been removed from AP-2 West and AMAX Cove, and CCR removal is ongoing at the Site.

Groundwater at the Site is monitored using a comprehensive 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 15, 2018.

Plant Yates and the Site

During the first half of 2022 reporting period, Arcadis conducted one groundwater sampling event in February. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for February 2022 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV[3] parameters[4]. During the first half of 2022 annual reporting period, the Site remained in assessment monitoring.

[1] 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020
[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228.
[4] A statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the USEPA RSL if no MCL is available, or the calculated background interwell prediction limit.

Appendix III Parameter	February 2022
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program through the first half of 2022, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to Georgia Environmental Protection Division (GAEPD) semiannually.

Contents

Tables

Figures

Appendices

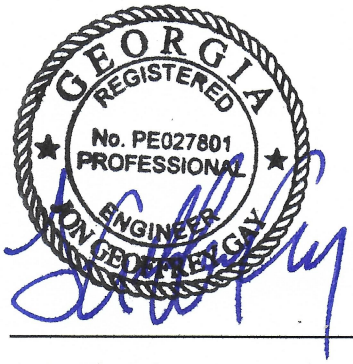
Acronyms and Abbreviations

Arcadis	Arcadis, Inc.
AP	Ash Pond
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
GAEPD	Georgia Environmental Protection Division
GPC	Georgia Power Company
GWPS	Groundwater Protection Standard
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	milligrams per liter
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

Professional Certification

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report for the Georgia Power Company Plant Yates Ash Pond 2 (AP-2) 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 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 documents groundwater monitoring conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-2 (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 Rules are cited within this report.

This report presents the results from the semiannual monitoring for Appendix III and IV constituents conducted in February 2022 in accordance with 40 CFR § 257.95.

1.1 Background

Plant Yates is located on 708 Dyer Road, on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line, 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 on **Figure 2.** The layout of Plant Yates and the other Site features is shown on **Figure 3**.

A permit application to comply with EPD rules was submitted in November 2018 and is currently under review. AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Semiannual monitoring for the CCR unit is performed in accordance with the monitoring requirements 40 CFR § 257.90 through 257.95 of the Federal CCR Rule and the GAEPD rules for Solid Waste Management 391-3-4-.10(6)(a).

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 photos of the Plant Yates area (ACC 2018).

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

rounded gravel and cobbles) that have been observed in saprolite may be related to historical river channel migration.

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

Field hydraulic conductivity tests (i.e., slug tests) have been performed in saprolite and weathered bedrock at multiple locations at the Site. The hydraulic conductivity at these locations is typically in a range from 10^{-3} to 10^{-4} centimeters per second based on multiple rising-head and falling-head slug tests (ACC 2020). 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 groundwater monitoring system was installed within the uppermost aquifer at the Site. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction. The compliance monitoring well network is summarized in **Table 1**.

As 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 “D” indicates upper bedrock. The CCR unit AP-2 was established along a topographically low area formed by an unnamed tributary. Based on the Site hydrogeology, the monitoring system is designed to monitor groundwater flow in the overburden, the transition zone, and the upper bedrock. The monitoring well network for the Site is illustrated on **Figure 3**.

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in February 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 certified monitoring system shown on **Figure 3**.

Table 2 summarizes groundwater sampling events conducted by Arcadis at AP-2 during this semiannual period. During the February 2022 event, groundwater samples were collected and analyzed for both 40 CFR 257

Appendix III and 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b). Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well Installation and Maintenance

There were no changes to the groundwater monitoring system in the first half of 2022; the network remained the same as in the 2021 reporting year. Monitoring well-related activities were limited to visual inspection of well conditions before sampling, recording the site conditions, and performing exterior maintenance necessary for sampling under safe and clean conditions. Details regarding the wells are included in **Table 1,** and locations are presented on **Figure 3**.

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In February 2022, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed where necessary, as documented in **Appendix A**. There were no well maintenance issues during this period that required corrective actions.

2.2 Assessment Monitoring

AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Monitoring wells at AP-2 were sampled for Appendix III and Appendix IV parameters in February 2022 pursuant to 40 CFR § 257.95(b) and 40 CFR § 257.95(d)(1). A summary of the groundwater sampling event is provided in **Table 2**.

3 Sampling Methodology and Analysis

Groundwater monitoring methods at the Site are described in the following sections.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, static water levels were recorded from piezometers and wells at AP-2 as noted **Table 3**. Saprolite and transition zone groundwater elevation data were used to prepare potentiometric surface elevation contour maps from February gauging event. Sitewide and AP-2 potentiometric surface maps are provided in **Figures 4 and 5**, respectively. The groundwater flow direction for the saprolite and transition zone wells is generally northeast, southwest, and west toward AP-2 where it flows west to the Chattahoochee River. The groundwater flow direction is consistent with historical patterns. 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 groundwater linear flow velocity is approximately 31 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 well locations.

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

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

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

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 events. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports, along with chain-of-custody records included in **Appendix B**.

Analytical data collected from 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.

3.4 Data Quality Assurance/Quality Control and Validation

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one per 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment is used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post-digestion spikes, laboratory and field duplicate relative percent differences, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags have been applied to the data using USEPA procedures as guidance (USEPA 2017). The February 2022 data validation report included in **Appendix B** 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 B**.

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

4 Statistical Analysis

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on data from the assessment monitoring events pursuant to 40 CFR §§ 257.93–95 following the established, certified statistical methods. The statistical method used at the Site was developed in accordance with 40 CFR § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (USEPA 2009).

4.1 Statistical Methods

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

4.1.1 Appendix III 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 exhibiting 100 percent non-detects.
- When data contained less than 15 percent non-detects in background, simple substitution of one half the reporting limit was used in the statistical analysis. The reporting limit used for non-detects is the practical quantification limit reported by the laboratory.
- When data contained between 15 to 50 percent non-detects, the Kaplan-Meier non-detect adjustment was applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Non-parametric prediction limits were used on data containing greater than 50 percent non-detects.

4.1.2 Assessment Monitoring Statistical Methods

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

The confidence and coverage levels for non-parametric tolerance limits depend on the number of background samples. The background limits were then used when determining the Groundwater Protection Standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under 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.

- The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

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, as noted above, except when site specific background concentrations of these constituents are higher. Statistical evaluation for the Spring 2022 event was updated to reflect these changes.

GWPS have been established for statistical comparison of Appendix IV constituents at AP-2. **Table 7** summarizes the background levels established at the monitoring well for the February 2022 sampling event along with the GWPS.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS 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, a statistically significant level (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 to determine whether concentrations statistically exceed the established GWPS. Appendix III and Appendix IV data from the February 2022 semiannual event were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats 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 C**, Appendix III concentrations have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A table summarizing these constituents and wells is provided in **Appendix C**.

4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the February 2022 Appendix IV data was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No SSLs were identified. Sanitas™ statistical output data for calculation of site-specific background concentrations and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix C**.

5 Monitoring Program Status

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in January 2018. No statistical exceedance of a GWPS for Appendix IV parameters has been identified. Pursuant to 40 CFR § 257.96(b), GPC will continue to monitor groundwater at AP-2 in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 due to SSIs for Appendix III parameters.

6 Conclusions and Future Actions

Statistical evaluations of the groundwater monitoring data for the Site identified no exceedance of a GWPS for an Appendix IV constituent during the February 2022 semiannual sampling event. The next semiannual monitoring event is scheduled for August 2022. The August 2022 semiannual monitoring event will include sampling and analysis of all Appendix III and IV constituents.

7 References

ACC. 20182020. *Plant Yates, Ash Pond 2 – Hydrogeologic Assessment Report*. Prepared for Georgia Environmental Protection Division. November 2018.

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

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

Groundwater Stats Consulting. 2019. *Statistical Analysis Plan – Plant Yates Ash Pond 2*. Prepared for Georgia Environmental Protection Division.

Harned, D.A., and Daniel D.D., III, 1992. The transition zone between bedrock and saprolite – Conduit for contamination? Ground water in the Piedmont – Proceedings of a conference on ground water in the Piedmont of the eastern United States: Clemson, S.C. p. 336-348.

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

State Waste Management Board. 2016. State Solid Waste Management Regulations – (9VAC20 81 et seq.). January.

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

USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March.

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

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

Tables

Table 1
Monitoring Network Well Summary
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

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 / Purpose
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
Downgradient Wells							
YGWC-26S	10/1/2015	716.28	40.18	676.10	29.88	686.40	Downgradient
YGWC-26I	9/30/2015	715.91	69.81	646.10	59.51	656.40	Downgradient
YGWC-27S	10/7/2015	716.52	40.52	676.00	30.22	686.30	Downgradient
YGWC-27I	10/7/2015	716.19	79.99	636.20	69.69	646.50	Downgradient
YGWC-28S	10/5/2015	717.95	44.95	673.00	34.65	683.30	Downgradient
YGWC-28I	10/5/2015	717.93	69.93	648.00	59.63	658.30	Downgradient
YGWC-29I	10/1/2015	717.39	39.59	677.80	29.29	688.10	Downgradient
Non-Network Wells							
PZ-1S	5/20/2014	836.84	36.34	800.50	26.04	810.80	Piezometer
PZ-3S	5/20/2014	796.39	42.39	754.00	32.09	764.30	Piezometer
PZ-13S	5/20/2014	807.79	43.79	764.00	33.49	774.30	Piezometer
PZ-13I	5/20/2014	807.62	59.22	748.40	48.92	758.70	Piezometer
PZ-14I	5/20/2014	749.06	50.86	698.20	40.56	708.50	Piezometer
PZ-25S	9/2/2015	766.60	56.80	709.80	46.50	720.10	Piezometer
PZ-25I	9/3/2015	766.38	84.58	681.80	74.28	692.10	Piezometer
PZ-31S	9/24/2015	738.62	34.72	703.90	24.42	714.02	Piezometer

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
Georgia Power Company
Plant Yates - AP-2

Well ID	Hydraulic Location	Semiannual Monitoring [1]
		February 8 - 11, 2022
YGWA-4I	Upgradient [2]	X
YGWA-5I	Upgradient [2]	X
YGWA-5D	Upgradient [2]	X
YGWA-17S	Upgradient [2]	X
YGWA-18S	Upgradient [2]	X
YGWA-18I	Upgradient [2]	X
YGWA-20S	Upgradient [2]	X
YGWA-21I	Upgradient [2]	X
YGWA-39	Upgradient [2]	X
YGWA-40	Upgradient [2]	X
YGWA-47	Upgradient [2]	X
GWA-2	Upgradient [2]	X
YGWA-1I	Upgradient	X
YGWA-1D	Upgradient	X
YGWA-2I	Upgradient	X
YGWA-3I	Upgradient	X
YGWA-3D	Upgradient	X
YGWA-14S	Upgradient	X
YGWA-30I	Upgradient	X
YGWC-26S	Downgradient	X
YGWC-26I	Downgradient	X
YGWC-27S	Downgradient	X
YGWC-27I	Downgradient	X
YGWC-28S	Downgradient	X
YGWC-28I	Downgradient	X
YGWC-29I	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
Georgia Power Company
Plant Yates - AP-2

Well ID	Date	TOC Elevation (ft)	Depth to Water (bTOC)	Groundwater Elevation (ft)
Downgradient Wells				
YGWC-26S	2/7/2022	716.28	25.36	690.92
YGWC-26I	2/7/2022	715.91	26.70	689.21
YGWC-27S	2/7/2022	716.52	29.76	686.76
YGWC-27I	2/7/2022	716.19	29.70	686.49
YGWC-28S	2/7/2022	717.95	27.88	690.07
YGWC-28I	2/7/2022	717.93	29.45	688.48
YGWC-29I	2/7/2022	717.39	27.92	689.47
PZ-01S	2/7/2022	836.84	32.84	804.00
PZ-03S	2/7/2022	796.39	36.47	759.92
PZ-13S	2/7/2022	807.79	36.37	771.42
PZ-13I	2/7/2022	807.62	40.05	767.57
PZ-14I	2/8/2022	749.06	19.58	729.48
PZ-25S	2/7/2022	766.60	43.07	723.53
PZ-25I	2/7/2022	766.38	46.02	720.36
PZ-31S	2/8/2022	738.62	26.15	712.47
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-20S	2/7/2022	767.12	11.00	756.12
YGWA-21I	2/7/2022	783.70	30.18	756.10
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
Georgia Power Company
Plant Yates - AP-2

Equation

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

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

Values Used in Calculation

Value			Source
K_{max}:	3.02E-03	cm/sec	See note 1
	8.57	ft/day	
K_{min}:	1.00E-06	cm/sec	
	0.003	ft/day	
K_{avg}	1.50E-04	cm/sec	
	0.43	ft/day	
Distance from:			
PZ01S to YGWA-14S	1,200	feet	
PZ-13S to YGWC-28	2,665	feet	
YGWA-14 to PZ-31S	570	feet	
Groundwater Elevation			**Date Collected:**
PZ-01S	804.00	feet	February 2022
YGWA-14S	730.18		
PZ-13S	771.42		
YGWC-28	690.07		
YGWA-14S	730.18		
PZ-31S	712.47		
	i_1 = 0.028	unitless	**Hydraulic gradient from:** PZ-01S to YGWA-14S (Feb. 2022)
	i_2 = 0.056	unitless	PZ-13S to YGWC-28 (Feb. 2022)
	i_3 = 0.033	unitless	YGWA-14 to PZ-31S (Feb. 2022)
	i_{avg} = 0.039	unitless	Average
	n_e = 0.20	unitless	See note 2

Minimum Linear Flow Velocity
February 2022

$$V_{min} = \frac{(0.003)\,(0.039)}{0.20}$$

V_{min} = 0.0006 ft/day, or 0.2 ft/year

Maximum Linear Flow Velocity
February 2022

$$V_{max} = \frac{(8.57)\,(0.039)}{0.20}$$

V_{max} = 1.7 ft/day, or 609 ft/year

Average Linear Flow Velocity
February 2022

$$V_{avg} = \frac{(0.43)(0.039)}{0.2}$$

V_{avg} = 0.08 ft/day, or 31 ft/year

Notes:

1. Slug tests performed by Atlantic Coast Consulting, Inc. at AP-2 (2014-2017)
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-2

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
Georgia Power Company
Plant Yates - AP-2

	Analyte	YGWC-26S	YGWC-26I	YGWC-27S	YGWC-27I	YGWC-28S	YGWC-28I	YGWC-29I
		2/10/2022	2/10/2022	2/8/2022	2/10/2022	2/8/2022	2/8/2022	2/8/2022
Appendix III	pH	5.31	5.84	6.22	6.23	6.30	6.34	5.88
	Boron	0.79	0.79	1.1	2.5	2.4	2.4	0.71
	Calcium	11.6	16.4	27.2	27.4	26.7	31.8	9.3
	Chloride	14.0	15.4	13.0	13.1	18.3	15.2	5.5
	Fluoride	< 0.050	< 0.050	0.087 J	0.059 J	0.14	0.063 J	0.053 J
	Sulfate	86.5	81.8	16.3	2.4	10.5	8.1	22.9
	Total Dissolved Solids	168	207	159	190	216	206	120
Appendix IV	Antimony	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	0.0032 J	0.0028 J	0.0019 J	0.0040 J	0.0042 J	0.0021 J	0.0033 J
	Barium	0.027	0.063	0.068	0.079	0.20	0.083	0.057
	Beryllium	0.000093 J	< 0.000054	< 0.000054	0.00013 J	< 0.000054	< 0.000054	< 0.000054
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00033 J	0.00019 J
	Chromium	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	0.0026 J	< 0.00039	0.0017 J	0.0051	0.00091 J	< 0.00039	< 0.00039
	Lead	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	< 0.00073	0.0086 J	< 0.00073	0.0072 J	< 0.00073	0.0076 J	0.0064 J
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	< 0.00074	< 0.00074	0.0018 J	0.00082 J	0.0011 J	< 0.00074
	Combined Radium - 226/228	0.431 U	0.149 U	0.781 U	1.23	0.964	1.07 U	0.104 U
	Selenium	< 0.0014	0.0042 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 - AP-2

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 U	1.19	0.422 U	0.894 U	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 - AP-2

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 U	0.0 U	0.133 U	0.571 U	0.0618 U
	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 - AP-2

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 U	1.94	0.268 U	0.834	0.534 U	0.400 U
	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
Georgia Power Company
Plant Yates - AP-2

Constituent	Units	Background	GWPS
February 2022			
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:

CFR = Code of Federal Regulations

MCL = Maximum Contaminant Level

mg/L = millgrams per liter

pCi/L = picocuries per liter

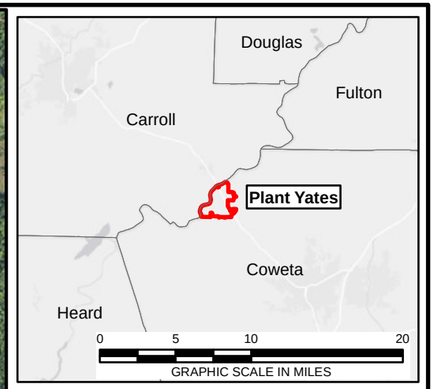
Figures

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

ASH POND 2

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



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-2
NEWNAN, GA
2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

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-2
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
FORMER ASH POND 1
FORMER GYPSUM STACK LANDFILL
GWA-2
YGWC-26S
YGWC-26I
YGWC-27I
YGWC-27S
YGWC-28I
YGWC-28S
YGWC-29I
ASH POND 2
PZ-25I
PZ-25S
YGWA-30I
PZ-31S
PZ-13S
PZ-13I
PZ-14I
YGWA-14S
R6 ASH DISPOSAL AREA
ASH MANAGEMENT AREA
YGWA-17S
YGWA-18S
YGWA-18I
PZ-01S
YGWA-1I
YGWA-1D
PZ-03S
YGWA-3I
YGWA-3D
YGWA-2I
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
YGWA-4I
YGWA-5I
YGWA-5D

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
- PERMITTED UNIT BOUNDARY

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

0 437.5 875 1,750
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
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-27S 686.76
YGWC-27I 686.49
YGWC-28S 690.07
YGWC-28I 688.48
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-1D 788.31
YGWA-1I 798.70
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

ARCADIS

FIGURE **4**

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

33°27'40"N

33°27'30"N

33°27'20"N

33°27'10"N

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
YGWA-30I 718.60
PZ-25I 720.36
PZ-25S 723.53
PZ-31S 712.47
PZ-14I 729.48
YGWA-14S 730.18
PZ-13S 771.42
PZ-13I 767.57
YGWA-1I 798.70
PZ-01S 804.00
YGWA-1D 788.31
PZ-03S 759.92
YGWA-3I 744.20
YGWA-3D 766.50
YGWA-2I 821.33

690 700 710 720 730 740 750 760 770 780 790 800 810 820

ASH POND 2

ASH MANAGEMENT AREA

R6 ASH DISPOSAL AREA

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
- PERMITTED UNIT BOUNDARY
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- **690.92** 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 WELL GROUNDWATER ELEVATIONS NOT USED FOR CONTOURING.

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 & 8, 2022.

0 200 400 800

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-2
NEWNAN, GA

2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2022

ARCADIS

FIGURE **5**

Appendix A

Field Sampling 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:	AP-2
Date:	2/7/2022
Sampler:	Mark Chest
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-29I	2/7/2022	13:44:00	27.92	39.59	--
YGWC-28S	2/7/2022	13:48:00	27.88	44.95	--
YGWC-28I	2/7/2022	13:49:00	29.45	69.93	--
YGWC-27S	2/7/2022	13:53:00	29.76	40.52	--
YGWC-27I	2/7/2022	13:55:00	29.70	79.99	--
YGWC-26S	2/7/2022	14:01:00	25.36	40.18	--
YGWC-26I	2/7/2022	14:03:00	26.70	69.81	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	2/7/2022
Sampler:	Khalil Carson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-25S	2/7/2022	14:59:00	43.07	56.80	--
PZ-25I	2/7/2022	15:02:00	46.02	84.58	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	2/7/2022
Sampler:	Jessica Ware
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-3S	2/7/2022	15:23:00	36.47	42.39	--
YGWA-3I	2/7/2022	15:26:00	52.35	59.05	Tall grass
YGWA-3D	2/7/2022	15:28:00	30.28	134.18	--
YGWA-2I	2/7/2022	15:37:00	44.92	63.75	Metal well label says plz
YGWA-1D	2/7/2022	15:43:00	48.94	128.85	--
PZ-1S	2/7/2022	15:45:00	32.84	36.34	--
YGWA-1I	2/7/2022	15:46:00	37.90	53.60	--
PZ-13S	2/7/2022	15:49:00	36.37	43.79	--
PZ-13I	2/7/2022	15:53:00	40.05	59.22	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	2/8/2022
Sampler:	Khalil Carson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-14S	2/8/2022	08:39:00	18.58	34.96	--
PZ-14I	2/8/2022	08:41:00	19.58	50.86	--
PZ-31S	2/8/2022	08:48:00	26.15	34.72	--
YGWA-30I	2/8/2022	08:55:00	43.98	59.48	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWC-28S			**Date**	02/08/2022
Project Location	AP-2		**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)**	34.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.05	**Total Depth (ft-bmp)**	44.95	**Water Column(ft)**	16.9	**Gallons in Well**	2.75
MP Elevation	717.95	**Pump Intake (ft-bmp)**	40	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:21	**Well Volumes Purged**	0.58	**Sample ID**	YGWC-28S	**Sampled by**	Mark Chest
Purge Start	14:48	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:18						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:48:00	00:00	200	28.05	6.58	348.25	18.13	6.97	17.1	24.18
14:53:00	05:00	200	28.49	6.02	416.29	34.9	1.07	18.1	-17.59
14:58:00	10:00	200	28.45	6.08	433.33	13.8	0.21	18	-53.81
15:03:00	15:00	200	28.44	6.14	436.54	8.73	0.25	18.1	-65.3
15:08:00	20:00	200	28.51	6.21	436.73	4.74	0.2	17.9	-72.75
15:13:00	25:00	200	28.53	6.25	437.44	2.62	0.16	18	-78.74
15:18:00	30:00	200	28.5	6.3	437.38	2.02	0.15	18.2	-84.47

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**	YGWC-28I			**Date**	02/08/2022
Project Location	AP-2		**Weather(°F)**	54.7 degrees F and Clear. The wind is blowing N/NW at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	59.63	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.25	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	40.68	**Gallons in Well**	6.61
MP Elevation	717.93	**Pump Intake (ft-bmp)**	64	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:17	**Well Volumes Purged**	0.16	**Sample ID**	YGWC-28I	**Sampled by**	Mark Chest
Purge Start	15:54	**Gallons Purged**	1.06	**Replicate/ Code No.**	AP-2-DUP-1	**Color**	Clear
Purge End	16:14						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:54:00	00:00	200	29.25	6.31	353.83	0.06	0.27	17.8	46.04
15:59:00	05:00	200	31.35	6.34	354.42	0.83	0.18	17.9	49.81
16:04:00	10:00	200	31.41	6.37	356.04	0.53	0.18	17.8	53.09
16:09:00	15:00	200	31.48	6.37	357.02	0.42	0.19	17.8	56.4
16:14:00	20:00	200	31.35	6.36	357.82	0.29	0.19	17.5	60.75

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	4	HNO3
Metals	250mL HDPE Plastic	2	HNO3
TDS	500 mL Plastic	2	None
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**	YGWC-27S			**Date**	02/08/2022
Project Location	AP-2		**Weather(°F)**	54.5 degrees F and Clear. The wind is blowing N/NW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	30.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.79	**Total Depth (ft-bmp)**	40.52	**Water Column(ft)**	11.73	**Gallons in Well**	1.91
MP Elevation	716.52	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:37	**Well Volumes Purged**	1.09	**Sample ID**	YGWC-27S	**Sampled by**	Jessica Ware
Purge Start	17:02	**Gallons Purged**	2.08	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:52						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:02:00	00:00	250	28.79	6.11	277.81	11.4	0.39	17.9	80.47
17:07:00	05:00	250	28.91	6.21	300.41	11.22	0.18	18.1	85.78
17:12:00	10:00	250	28.84	6.23	302.34	10.84	0.18	17.9	90.85
17:17:00	15:00	200	28.83	6.25	299.67	10.46	0.22	17.1	94.46
17:22:00	20:00	200	28.85	6.22	295.48	4.58	0.26	16.6	100.69
17:27:00	25:00	200	28.85	6.22	290.04	3.61	0.31	16.5	104.39
17:32:00	30:00	200	28.85	6.21	285.17	1.66	0.34	16.3	107.99
17:37:00	35:38	200	28.85	6.22	275.05	2.88	0.4	16.6	110.18

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**	YGWC-29I			**Date**	02/08/2022
Project Location	AP-2		**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)**	29.29	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.85	**Total Depth (ft-bmp)**	39.59	**Water Column(ft)**	11.74	**Gallons in Well**	1.91
MP Elevation	717.39	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:02	**Well Volumes Purged**	0.69	**Sample ID**	YGWC-29I	**Sampled by**	Mark Chest
Purge Start	13:34	**Gallons Purged**	1.32	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:59						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:34:00	00:00	200	27.85	6.18	197.56	1.06	4.45	17.6	73.19
13:39:00	05:00	200	31.4	5.81	183.83	0.2	0.5	18.1	136.75
13:44:00	10:00	200	31.4	5.83	195.96	2.42	0.69	18	166.78
13:49:00	15:00	200	31.37	5.81	197.2	1.64	0.44	17.5	177.66
13:54:00	20:00	200	31.39	5.83	197.58	0.42	0.28	17.7	184.79
13:59:00	25:00	200	31.4	5.88	199.03	0.16	0.23	17.8	186.92

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
RAD Chem	1L Plastic	2	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-26S			**Date**	02/10/2022
Project Location	AP-2		**Weather(°F)**	41 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	25.22	**Total Depth (ft-bmp)**	40.18	**Water Column(ft)**	14.96	**Gallons in Well**	2.43
MP Elevation	716.28	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:15	**Well Volumes Purged**	0.33	**Sample ID**	YGWC-26S	**Sampled by**	Khalil Carson
Purge Start	08:44	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:33						

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)
08:44:00	00:00	200	25.22	5.57	284.72	4.19	4.27	16.7	205.46
08:49:00	05:00	100	27.42	5.21	276.33	1.45	0.46	17.5	197.05
08:54:00	10:00	100	27.22	5.19	277.86	0.51	0.31	16.9	192.1
08:59:00	15:00	100	27.62	5.21	277.99	0.23	0.29	17	184.59
09:04:00	20:00	100	27.46	5.27	278.1	0.2	0.27	17.1	178.08
09:09:00	25:00	100	27.46	5.31	278.3	0.58	0.24	16.5	173.89

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Ammonia,Chloride,Fluoride ,Sulfate	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-26I			**Date**	02/10/2022
Project Location	AP-2		**Weather(°F)**	45 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	59.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	25.71	**Total Depth (ft-bmp)**	69.81	**Water Column(ft)**	44.1	**Gallons in Well**	7.17
MP Elevation	715.91	**Pump Intake (ft-bmp)**	61	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:25	**Well Volumes Purged**	0.15	**Sample ID**	YGWC-26I	**Sampled by**	Khalil Carson
Purge Start	10:00	**Gallons Purged**	1.06	**Replicate/ Code No.**		**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)
10:00:00	00:00	200	25.71	6.03	300.39	3.93	5.62	13.8	178.67
10:05:00	05:00	200	26.12	5.9	303.24	1.71	0.62	17.5	39.77
10:10:00	10:00	200	26.12	5.86	303.07	0.61	0.21	17.7	96.39
10:15:00	15:00	200	26.12	5.85	302.63	0.82	0.16	17.8	117.77
10:20:00	20:00	200	26.12	5.84	302.08	1.55	0.15	18	128.4

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,Fluoride ,Sulfate	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-27I			**Date**	02/10/2022
Project Location	AP-2		**Weather(°F)**	55 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.69	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.5	**Total Depth (ft-bmp)**	79.99	**Water Column(ft)**	51.49	**Gallons in Well**	8.37
MP Elevation	716.19	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:45	**Well Volumes Purged**	0.09	**Sample ID**	YGWC-27I	**Sampled by**	Khalil Carson
Purge Start	11:20	**Gallons Purged**	0.73	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:12						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:20:00	00:00	100	28.5	7.56	323.39	1.47	8.49	16.5	207.74
11:25:00	05:00	150	29.13	6.24	335.68	1.5	0.73	17.9	25.48
11:30:00	10:00	150	29.24	6.23	333.01	0.54	0.29	18.1	12.27
11:35:00	15:00	150	29.3	6.25	329.64	0.47	0.25	18.2	3.84
11:40:00	20:00	150	29.3	6.23	328.73	0.46	0.2	18.2	-10.14

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

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:	AP-2
Permit Number:	
Well ID:	YGWC-29I
Person Gauging:	Mark Chest
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:	AP-2
Permit Number:	
Well ID:	YGWC-28S
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	13:48:00

			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-2
Permit Number:	
Well ID:	YGWC-28I
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	13:49:00

			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:	YGWC-27S
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	13:53:00

			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:				
	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-2
Permit Number:	
Well ID:	YGWC-27I
Person Gauging:	Mark Chest
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:				
	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-2
Permit Number:	
Well ID:	YGWC-26S
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	14:01:00

			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:				
	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-2
Permit Number:	
Well ID:	YGWC-26I
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	14:03:00

			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:	PZ-25S
Person Gauging:	Khalil Carson
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:	AP-2
Permit Number:	
Well ID:	PZ-25I
Person Gauging:	Khalil Carson
Date:	2/7/2022
Time:	15:02:00

			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:	PZ-3S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	15:23:00

			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:				
	Tall grass				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-1S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	15:45:00

			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:	PZ-13S
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	15:49:00

			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:	PZ-13I
Person Gauging:	Jessica Ware
Date:	2/7/2022
Time:	15:53:00

			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:	AP-2
Permit Number:	
Well ID:	PZ-14I
Person Gauging:	Khalil Carson
Date:	2/8/2022
Time:	08:41:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-31S
Person Gauging:	Khalil Carson
Date:	2/8/2022
Time:	08:48:00

			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

Analytical Lab and Data Validation Reports (February 2022)

February 2022

Georgia Power Co. – Plant Yates

Data Review Report

Metals, Radium, and General Chemistry Analyses

SDGs #92587078 and 92587089

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

Report #44873R
Review Level: Tier II
Project: 30052923.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92587078 and 92587089 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-28S	92587078001 92587089001	Water	2/8/2022		X	X	X
YGWC-28I	92587078002 92587089002	Water	2/8/2022		X	X	X
AP-2-DUP-1	92587078003 92587089003	Water	2/8/2022	YGWC-28I	X	X	X
YGWC-29I	92587078004 92587089004	Water	2/8/2022		X	X	X
AP-2-FB-1	92587078005 92587089005	Water	2/8/2022		X	X	X
YGWC-27S	92587078006 92587089006	Water	2/8/2022		X	X	X
AP-2-EB-1	92587078007 92587089007	Water	2/8/2022		X	X	X
AP-2-EB-2	92587078008 92587089008	Water	2/9/2022		X	X	X
AP-2-FB-2	92587078009 92587089009	Water	2/9/2022		X	X	X
YGWC-26S	92587078010 92587089010	Water	2/10/2022		X	X	X
YGWC-26I	92587078011 92587089011	Water	2/10/2022		X	X	X
YGWC-27I	92587078012 92587089012	Water	2/10/2022		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.
4. 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, 7470A, 9315, and 9320; 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 National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).

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-28S YGWC-28I AP-2-DUP-1 YGWC-29I YGWC-27S YGWC-26S YGWC-26I YGWC-27I	Arsenic (EB, FB)	Detected sample results >RL and <BAL	“UB” at detected sample concentration

Notes:
EB = Equipment blank

FB = Field blank
RL = Reporting limit

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

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

3.1 MS/MSD Analysis

All 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 YGWC-29I in association with SW-846 6010D analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-28I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-28S in association with SW-846 7470A analysis exhibited recoveries outside of the control limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWC-28S	Mercury	AC (77%)	74%

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. The qualifications are applied to all sample results associated with this SDG.

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.

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-28I / AP-2-DUP-1	Calcium	31.8	31.3	1.6%
	Barium	0.083	0.083	0.0%
	Boron	2.4	2.4	0.0%
	Antimony	0.0030 U	0.0011 J	AC
	Cadmium	0.00033 J	0.00030 J	
	Lithium	0.0076 J	0.0076 J	
	Molybdenum	0.0011 J	0.0012 J	

Note:
AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-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.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using sample AP-2-FB-1 in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using samples AP-2-FB-1 and YGWC-27I 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 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
YGWC-28I / AP-2-DUP-1	TDS	206	202	2.0%
	Chloride	15.2	15.1	0.7%
	Sulfate	8.1	8.1	0.0%
	Fluoride	0.063 J	0.063 J	AC

Note:
AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-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, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (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 YGWC-28S 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-28I / AP-2-DUP-1	Radium-226	0.0326 ± 0.0715	0.0621 ± 0.0828	AC
	Radium-228	1.04 ± 0.575	0.334 ± 0.282	
	Total Radium	1.07 ± 0.647	0.396 ± 0.365	

Note:
AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-DUP-1 were acceptable.

5. Tracer or Carrier

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

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

Based on the above criteria sample results should be considered non-detect as follows:

- YGWC-28I, AP-2-DUP-1, YGWC-29I, YGWC-27S, YGWC-26S, and YGWC-26I – Radium-226, Radium-228, and total Radium
- YGWC-27I – Radium-226

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: March 21, 2022

PEER REVIEW: Dennis Capria

DATE: March 25, 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:		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 AP-2	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)	
1	~~YGWC-26S~~	WT	G	—	—	–	–		~~5~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		
2	~~YGWC-26I~~	WT	G	–	—	–	–		~~5~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH:
3	~~YGWC-27S~~	WT	G	~~2/8/22~~	~~1737~~	–	–		~~5~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH:
4	~~YGWC-27I~~	WT	G	—	—	–	–		~~5~~	~~3~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH:
5	YGWC-28S	WT	G	2/8/22	1521	–	–		5	2		3							X	X	X	X		pH: 6.30
6	YGWC-28I	WT	G	2/8/22	1647	–	–		5	2		3							X	X	X	X		pH: 6.34
7	AP-2-DUP-1	WT	G	2/8/22	–	–	–		5	2		3							X	X	X	X		pH:
8	YGWC-29I	WT	G	2/8/22	1402	–	–		5	2		3							X	X	X	X		pH: 5.88
9	~~AP-2-EB-1~~	WT	G	~~2/8/22~~	~~1829~~	–	–		5	2		3							X	X	X	X		pH:
10	~~AP-2-EB-2~~	WT	G	—	—	–	–		~~5~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH:
11	AP-2-FB-1	WT	G	2/8/22	1535	–	–		5	2		3							X	X	X	X		pH:
12	~~AP-2-FB-2~~	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	825	/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:	Mark Chest				
SIGNATURE of SAMPLER:		DATE Signed:	2/9/21		

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 AP-2
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-26S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
2	~~YGWC-26I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
3	YGWC-27S	WT	G	2/8/22	1737	–	–		5	2		3						X	X	X	X		pH: 6.22
4	~~YGWC-27I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
5	~~YGWC-28S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
6	~~YGWC-28I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
7	~~AP-2-DUP-1~~	WT	G			–	–		5	~~2~~		3						X	X	X	X		pH:
8	~~YGWC-29I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
9	AP-2-EB-1	WT	G	2/8/22	1827	–	–		5	2		3						X	X	X	X		pH:
10	~~AP-2-EB-2~~	WT	G			–	–		5	2		3						X	X	X	X		pH:
11	~~AP-2-FB-1~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X		pH:
12	~~AP-2-FB-2~~	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)	Jessica Ware /Arcadis	2/9/22	0828	/Arcadis	2/9/22	0828	
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: 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)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587078	No qualifiers assigned						
92587089	YGWC-28S	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-28I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-DUP-1	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-29I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-FB-1	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-27S	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-EB-1	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-EB-2	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-FB-2	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-26S	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-26I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-27I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL

Abbreviations:
%R = percent recovery
LCL = lower control limit
mg/L = milligrams per liter
MSD = matrix spike duplicate

Qualifiers:
UJ = 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 AP-2
Pace Project No.: 92587089

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 AP-2
Pace Project No.: 92587089

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
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SAMPLE SUMMARY

Project: YATES AP-2
Pace Project No.: 92587089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587089001	**YGWC-28S**	Water	02/08/22 15:21	02/09/22 10:18
92587089002	**YGWC-28I**	Water	02/08/22 16:17	02/09/22 10:18
92587089003	**AP-2-DUP-1**	Water	02/08/22 00:00	02/09/22 10:18
92587089004	**YGWC-29I**	Water	02/08/22 14:02	02/09/22 10:18
92587089005	**AP-2-FB-1**	Water	02/08/22 15:35	02/09/22 10:18
92587089006	**YGWC-27S**	Water	02/08/22 17:37	02/09/22 10:18
92587089007	**AP-2-EB-1**	Water	02/08/22 18:27	02/09/22 10:18
92587089008	**AP-2-EB-2**	Water	02/09/22 18:45	02/10/22 17:00
92587089009	**AP-2-FB-2**	Water	02/09/22 16:45	02/10/22 17:00
92587089010	**YGWC-26S**	Water	02/10/22 09:15	02/11/22 16:45
92587089011	**YGWC-26I**	Water	02/10/22 10:25	02/11/22 16:45
92587089012	**YGWC-27I**	Water	02/10/22 11:45	02/11/22 16:45

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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SAMPLE ANALYTE COUNT

Project: YATES AP-2
Pace Project No.: 92587089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587089001	**YGWC-28S**	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
92587089002	**YGWC-28I**	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
92587089003	**AP-2-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
92587089004	**YGWC-29I**	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
92587089005	**AP-2-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
92587089006	**YGWC-27S**	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
92587089007	**AP-2-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
92587089008	**AP-2-EB-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SAMPLE ANALYTE COUNT

Project: YATES AP-2
Pace Project No.: 92587089

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
92587089009	**AP-2-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
92587089010	**YGWC-26S**	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
92587089011	**YGWC-26I**	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
92587089012	**YGWC-27I**	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 AP-2
Pace Project No.: 92587089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587089001	**YGWC-28S**					
	Performed by	CUSTOMER			02/09/22 12:28	
	pH	6.30	Std. Units		02/09/22 12:28	
EPA 6010D	Calcium	26.7	mg/L	1.0	02/23/22 20:09	
EPA 6020B	Arsenic	0.0042J	mg/L	0.0050	02/23/22 18:29	B
EPA 6020B	Barium	0.20	mg/L	0.0050	02/23/22 18:29	
EPA 6020B	Boron	2.4	mg/L	0.040	02/23/22 18:29	
EPA 6020B	Cobalt	0.00091J	mg/L	0.0050	02/23/22 18:29	
EPA 6020B	Molybdenum	0.00082J	mg/L	0.010	02/23/22 18:29	
SM 2540C-2015	Total Dissolved Solids	216	mg/L	10.0	02/14/22 15:18	
EPA 300.0 Rev 2.1 1993	Chloride	18.3	mg/L	1.0	02/15/22 04:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/15/22 04:46	
EPA 300.0 Rev 2.1 1993	Sulfate	10.5	mg/L	1.0	02/15/22 04:46	
92587089002	**YGWC-28I**					
	Performed by	CUSTOMER			02/09/22 12:28	
	pH	6.34	Std. Units		02/09/22 12:28	
EPA 6010D	Calcium	31.8	mg/L	1.0	02/23/22 20:14	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/23/22 18:35	B
EPA 6020B	Barium	0.083	mg/L	0.0050	02/23/22 18:35	
EPA 6020B	Boron	2.4	mg/L	0.040	02/23/22 18:35	
EPA 6020B	Cadmium	0.00033J	mg/L	0.00050	02/23/22 18:35	
EPA 6020B	Lithium	0.0076J	mg/L	0.030	02/23/22 18:35	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/23/22 18:35	
SM 2540C-2015	Total Dissolved Solids	206	mg/L	10.0	02/14/22 15:18	
EPA 300.0 Rev 2.1 1993	Chloride	15.2	mg/L	1.0	02/15/22 04:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	02/15/22 04:59	
EPA 300.0 Rev 2.1 1993	Sulfate	8.1	mg/L	1.0	02/15/22 04:59	
92587089003	**AP-2-DUP-1**					
EPA 6010D	Calcium	31.3	mg/L	1.0	02/23/22 20:18	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	02/23/22 18:59	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/23/22 18:59	B
EPA 6020B	Barium	0.083	mg/L	0.0050	02/23/22 18:59	
EPA 6020B	Boron	2.4	mg/L	0.040	02/23/22 18:59	
EPA 6020B	Cadmium	0.00030J	mg/L	0.00050	02/23/22 18:59	
EPA 6020B	Lithium	0.0076J	mg/L	0.030	02/23/22 18:59	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/23/22 18:59	
SM 2540C-2015	Total Dissolved Solids	202	mg/L	10.0	02/14/22 15:19	
EPA 300.0 Rev 2.1 1993	Chloride	15.1	mg/L	1.0	02/15/22 05:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	02/15/22 05:13	
EPA 300.0 Rev 2.1 1993	Sulfate	8.1	mg/L	1.0	02/15/22 05:13	
92587089004	**YGWC-29I**					
	Performed by	CUSTOMER			02/09/22 12:28	
	pH	5.88	Std. Units		02/09/22 12:28	
EPA 6010D	Calcium	9.3	mg/L	1.0	02/23/22 20:33	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92587089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587089004	**YGWC-29I**					
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:05	B
EPA 6020B	Barium	0.057	mg/L	0.0050	02/23/22 19:05	
EPA 6020B	Boron	0.71	mg/L	0.040	02/23/22 19:05	
EPA 6020B	Cadmium	0.00019J	mg/L	0.00050	02/23/22 19:05	
EPA 6020B	Lithium	0.0064J	mg/L	0.030	02/23/22 19:05	
SM 2540C-2015	Total Dissolved Solids	120	mg/L	10.0	02/14/22 15:19	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	02/15/22 05:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/15/22 05:55	
EPA 300.0 Rev 2.1 1993	Sulfate	22.9	mg/L	1.0	02/15/22 05:55	
92587089005	**AP-2-FB-1**					
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:11	B
EPA 6020B	Boron	0.014J	mg/L	0.040	02/23/22 19:11	
92587089006	**YGWC-27S**					
	Performed by	CUSTOMER			02/09/22 12:28	
	pH	6.22	Std. Units		02/09/22 12:28	
EPA 6010D	Calcium	27.2	mg/L	1.0	02/23/22 20:58	
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	02/23/22 19:29	B
EPA 6020B	Barium	0.068	mg/L	0.0050	02/23/22 19:29	
EPA 6020B	Boron	1.1	mg/L	0.20	02/24/22 12:52	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	02/23/22 19:29	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	10.0	02/14/22 15:19	
EPA 300.0 Rev 2.1 1993	Chloride	13.0	mg/L	1.0	02/15/22 06:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.087J	mg/L	0.10	02/15/22 06:51	
EPA 300.0 Rev 2.1 1993	Sulfate	16.3	mg/L	1.0	02/15/22 06:51	
92587089007	**AP-2-EB-1**					
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/23/22 19:35	B
92587089008	**AP-2-EB-2**					
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/23/22 20:11	B
92587089009	**AP-2-FB-2**					
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/23/22 20:17	B
92587089010	**YGWC-26S**					
	Performed by	CUSTOMER			02/14/22 11:29	
	pH	5.31	Std. Units		02/14/22 11:29	
EPA 6010D	Calcium	11.6	mg/L	1.0	02/23/22 22:04	
EPA 6020B	Arsenic	0.0032J	mg/L	0.0050	02/23/22 20:53	B
EPA 6020B	Barium	0.027	mg/L	0.0050	02/23/22 20:53	
EPA 6020B	Beryllium	0.000093J	mg/L	0.00050	02/23/22 20:53	
EPA 6020B	Boron	0.79	mg/L	0.20	02/24/22 13:10	
EPA 6020B	Cobalt	0.0026J	mg/L	0.0050	02/23/22 20:53	
SM 2540C-2015	Total Dissolved Solids	168	mg/L	10.0	02/17/22 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	14.0	mg/L	1.0	02/19/22 03:43	
EPA 300.0 Rev 2.1 1993	Sulfate	86.5	mg/L	1.0	02/19/22 03:43	

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92587089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587089011	**YGWC-26I**					
	Performed by	CUSTOMER			02/14/22 11:30	
	pH	5.84	Std. Units		02/14/22 11:30	
EPA 6010D	Calcium	16.4	mg/L	1.0	02/23/22 22:09	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/23/22 20:59	B
EPA 6020B	Barium	0.063	mg/L	0.0050	02/23/22 20:59	
EPA 6020B	Boron	0.79	mg/L	0.20	02/24/22 13:16	
EPA 6020B	Lithium	0.0086J	mg/L	0.030	02/23/22 20:59	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	02/23/22 20:59	
SM 2540C-2015	Total Dissolved Solids	207	mg/L	10.0	02/17/22 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	15.4	mg/L	1.0	02/19/22 03:59	
EPA 300.0 Rev 2.1 1993	Sulfate	81.8	mg/L	1.0	02/19/22 03:59	
92587089012	**YGWC-27I**					
	Performed by	CUSTOMER			02/14/22 11:30	
	pH	6.23	Std. Units		02/14/22 11:30	
EPA 6010D	Calcium	27.4	mg/L	1.0	02/23/22 22:23	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	02/23/22 21:05	B
EPA 6020B	Barium	0.079	mg/L	0.0050	02/23/22 21:05	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/23/22 21:05	
EPA 6020B	Boron	2.5	mg/L	0.20	02/24/22 13:22	
EPA 6020B	Cobalt	0.0051	mg/L	0.0050	02/23/22 21:05	
EPA 6020B	Lithium	0.0072J	mg/L	0.030	02/23/22 21:05	
EPA 6020B	Molybdenum	0.0018J	mg/L	0.010	02/23/22 21:05	
SM 2540C-2015	Total Dissolved Solids	190	mg/L	10.0	02/17/22 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	13.1	mg/L	1.0	02/19/22 04:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/19/22 04:14	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 04:14	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: YGWC-28S **Lab ID: 92587089001** Collected: 02/08/22 15:21 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 12:28		
pH	**6.30**	Std. Units			1		02/09/22 12:28		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**26.7**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:09	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 18:29	7440-36-0	
Arsenic	**0.0042J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:29	7440-38-2	B
Barium	**0.20**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 18:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 18:29	7440-41-7	
Boron	**2.4**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 18:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 18:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:29	7440-47-3	
Cobalt	**0.00091J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 18:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 18:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 18:29	7439-93-2	
Molybdenum	**0.00082J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 18:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 18:29	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 08:00	02/16/22 15:08	7439-97-6	M1
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**216**	mg/L	10.0	10.0	1		02/14/22 15:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.3**	mg/L	1.0	0.60	1		02/15/22 04:46	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		02/15/22 04:46	16984-48-8	
Sulfate	**10.5**	mg/L	1.0	0.50	1		02/15/22 04:46	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 AP-2
Pace Project No.: 92587089

Sample: YGWC-28I **Lab ID: 92587089002** Collected: 02/08/22 16:17 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 12:28		
pH	**6.34**	Std. Units			1		02/09/22 12:28		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**31.8**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:14	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 18:35	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:35	7440-38-2	B
Barium	**0.083**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 18:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 18:35	7440-41-7	
Boron	**2.4**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 18:35	7440-42-8	
Cadmium	**0.00033J**	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 18:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 18:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 18:35	7439-92-1	
Lithium	**0.0076J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 18:35	7439-93-2	
Molybdenum	**0.0011J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 18:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 18:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 18:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**206**	mg/L	10.0	10.0	1		02/14/22 15:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.2**	mg/L	1.0	0.60	1		02/15/22 04:59	16887-00-6	
Fluoride	**0.063J**	mg/L	0.10	0.050	1		02/15/22 04:59	16984-48-8	
Sulfate	**8.1**	mg/L	1.0	0.50	1		02/15/22 04:59	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 AP-2
Pace Project No.: 92587089

Sample: AP-2-DUP-1 **Lab ID: 92587089003** 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	**31.3**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:18	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0011J**	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 18:59	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:59	7440-38-2	B
Barium	**0.083**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 18:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 18:59	7440-41-7	
Boron	**2.4**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 18:59	7440-42-8	
Cadmium	**0.00030J**	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 18:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 18:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 18:59	7439-92-1	
Lithium	**0.0076J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 18:59	7439-93-2	
Molybdenum	**0.0012J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 18:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 18:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 18:59	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 08:00	02/16/22 15:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**202**	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	**15.1**	mg/L	1.0	0.60	1		02/15/22 05:13	16887-00-6	
Fluoride	**0.063J**	mg/L	0.10	0.050	1		02/15/22 05:13	16984-48-8	
Sulfate	**8.1**	mg/L	1.0	0.50	1		02/15/22 05:13	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 AP-2
Pace Project No.: 92587089

Sample: YGWC-29I **Lab ID: 92587089004** Collected: 02/08/22 14:02 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 12:28		
pH	**5.88**	Std. Units			1		02/09/22 12:28		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.3**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:33	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:05	7440-36-0	
Arsenic	**0.0033J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:05	7440-38-2	B
Barium	**0.057**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:05	7440-41-7	
Boron	**0.71**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:05	7440-42-8	
Cadmium	**0.00019J**	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:05	7439-92-1	
Lithium	**0.0064J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:05	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 08:00	02/16/22 15:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**120**	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	**5.5**	mg/L	1.0	0.60	1		02/15/22 05:55	16887-00-6	
Fluoride	**0.053J**	mg/L	0.10	0.050	1		02/15/22 05:55	16984-48-8	
Sulfate	**22.9**	mg/L	1.0	0.50	1		02/15/22 05:55	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 AP-2
Pace Project No.: 92587089

Sample: AP-2-FB-1 **Lab ID: 92587089005** Collected: 02/08/22 15:35 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	02/23/22 14:19	02/23/22 20:53	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 19:11	7440-36-0	
Arsenic	**0.0033J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:11	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:11	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:11	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 08:00	02/16/22 15:26	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		02/14/22 15:19		
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 06:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 06:09	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/15/22 06:09	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 AP-2
Pace Project No.: 92587089

Sample: YGWC-27S **Lab ID: 92587089006** Collected: 02/08/22 17:37 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 12:28		
pH	**6.22**	Std. Units			1		02/09/22 12:28		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**27.2**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:58	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 19:29	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:29	7440-38-2	B
Barium	**0.068**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:29	7440-41-7	
Boron	**1.1**	mg/L	0.20	0.043	5	02/23/22 14:19	02/24/22 12:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:29	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:29	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 08:00	02/16/22 15:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**159**	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	**13.0**	mg/L	1.0	0.60	1		02/15/22 06:51	16887-00-6	
Fluoride	**0.087J**	mg/L	0.10	0.050	1		02/15/22 06:51	16984-48-8	
Sulfate	**16.3**	mg/L	1.0	0.50	1		02/15/22 06:51	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 AP-2
Pace Project No.: 92587089

Sample: AP-2-EB-1 **Lab ID: 92587089007** Collected: 02/08/22 18:27 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	02/23/22 14:19	02/23/22 21:02	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:35	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:35	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:35	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:35	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 08:00	02/16/22 15:31	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		02/14/22 15:19		
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 07:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 07:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/15/22 07:05	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 AP-2
Pace Project No.: 92587089

Sample: AP-2-EB-2 **Lab ID: 92587089008** Collected: 02/09/22 18:45 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 14:19	02/23/22 21:40	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 14:19	02/23/22 20:11	7440-36-0	
Arsenic	**0.0038J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:11	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:11	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 08:00	02/16/22 15:39	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 16:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 12:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 12:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 12:36	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 AP-2
Pace Project No.: 92587089

Sample: AP-2-FB-2 **Lab ID: 92587089009** Collected: 02/09/22 16:45 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 14:19	02/23/22 21:45	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 20:17	7440-36-0	
Arsenic	**0.0038J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:17	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:17	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	02/16/22 08:00	02/16/22 15:42	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 16:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 12:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 12:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 12:50	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 AP-2
Pace Project No.: 92587089

Sample: YGWC-26S **Lab ID: 92587089010** Collected: 02/10/22 09:15 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 11:29		
pH	**5.31**	Std. Units			1		02/14/22 11:29		
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	02/23/22 14:19	02/23/22 22:04	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 20:53	7440-36-0	
Arsenic	**0.0032J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:53	7440-38-2	B
Barium	**0.027**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:53	7440-39-3	
Beryllium	**0.000093J**	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:53	7440-41-7	
Boron	**0.79**	mg/L	0.20	0.043	5	02/23/22 14:19	02/24/22 13:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:53	7440-47-3	
Cobalt	**0.0026J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:53	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:53	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 15:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**168**	mg/L	10.0	10.0	1		02/17/22 16:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.0**	mg/L	1.0	0.60	1		02/19/22 03:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 03:43	16984-48-8	
Sulfate	**86.5**	mg/L	1.0	0.50	1		02/19/22 03:43	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 AP-2
Pace Project No.: 92587089

Sample: YGWC-26I **Lab ID: 92587089011** Collected: 02/10/22 10:25 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 11:30		
pH	**5.84**	Std. Units			1		02/14/22 11:30		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**16.4**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 22:09	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 20:59	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:59	7440-38-2	B
Barium	**0.063**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:59	7440-41-7	
Boron	**0.79**	mg/L	0.20	0.043	5	02/23/22 14:19	02/24/22 13:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:59	7439-92-1	
Lithium	**0.0086J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:59	7439-98-7	
Selenium	**0.0042J**	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:59	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 08:00	02/16/22 15:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**207**	mg/L	10.0	10.0	1		02/17/22 16:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.4**	mg/L	1.0	0.60	1		02/19/22 03:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 03:59	16984-48-8	
Sulfate	**81.8**	mg/L	1.0	0.50	1		02/19/22 03:59	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 AP-2
Pace Project No.: 92587089

Sample: YGWC-27I **Lab ID: 92587089012** Collected: 02/10/22 11:45 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 11:30		
pH	**6.23**	Std. Units			1		02/14/22 11:30		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**27.4**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 22:23	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 14:19	02/23/22 21:05	7440-36-0	
Arsenic	**0.0040J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 21:05	7440-38-2	B
Barium	**0.079**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 21:05	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 21:05	7440-41-7	
Boron	**2.5**	mg/L	0.20	0.043	5	02/23/22 14:19	02/24/22 13:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 21:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 21:05	7440-47-3	
Cobalt	**0.0051**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 21:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 21:05	7439-92-1	
Lithium	**0.0072J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 21:05	7439-93-2	
Molybdenum	**0.0018J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 21:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 21:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 21:05	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 08:00	02/16/22 15:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**190**	mg/L	10.0	10.0	1		02/17/22 16:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.1**	mg/L	1.0	0.60	1		02/19/22 04:14	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		02/19/22 04:14	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.50	1		02/19/22 04:14	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 AP-2
Pace Project No.: 92587089

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: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

METHOD BLANK: 3558408 Matrix: Water

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

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	

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 AP-2
Pace Project No.: 92587089

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: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

METHOD BLANK: 3558393 Matrix: Water
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

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	
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	
Selenium	mg/L	ND	0.0050	0.0014	02/23/22 18:18	
Thallium	mg/L	ND	0.0010	0.00018	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	
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	
Selenium	mg/L	0.1	0.11	105	80-120	
Thallium	mg/L	0.1	0.10	101	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	

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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 AP-2
Pace Project No.: 92587089

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
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	
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	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.097	97	97	75-125	1	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 AP-2
Pace Project No.: 92587089

QC Batch: 678406 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

METHOD BLANK: 3550211 Matrix: Water
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

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

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

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: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

METHOD BLANK: 3548928 Matrix: Water
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 678370
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: 92587089008, 92587089009

METHOD BLANK: 3550019 Matrix: Water
Associated Lab Samples: 92587089008, 92587089009

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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(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

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: 92587089010, 92587089011, 92587089012

METHOD BLANK: 3553375 Matrix: Water
Associated Lab Samples: 92587089010, 92587089011, 92587089012

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 AP-2
Pace Project No.: 92587089

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: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

METHOD BLANK: 3549593 Matrix: Water
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

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 AP-2
Pace Project No.: 92587089

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: 92587089008, 92587089009

METHOD BLANK: 3551059 Matrix: Water
Associated Lab Samples: 92587089008, 92587089009

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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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 679328
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: 92587089010, 92587089011, 92587089012

METHOD BLANK: 3554532 Matrix: Water
Associated Lab Samples: 92587089010, 92587089011, 92587089012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/18/22 20:56	
Fluoride	mg/L	ND	0.10	0.050	02/18/22 20:56	
Sulfate	mg/L	ND	1.0	0.50	02/18/22 20:56	

LABORATORY CONTROL SAMPLE: 3554533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554534 3554535

Parameter	Units	92588782001 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	54.3	55.2	100	102	90-110	2	10	
Fluoride	mg/L	0.14	2.5	2.5	2.6	2.7	99	102	90-110	2	10	
Sulfate	mg/L	3.1	50	50	53.1	54.1	100	102	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554536 3554537

Parameter	Units	92587881007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.9	50	50	59.0	59.3	100	101	90-110	0	10	
Fluoride	mg/L	0.071J	2.5	2.5	2.6	2.6	100	101	90-110	1	10	
Sulfate	mg/L	70.0	50	50	113	113	87	87	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES AP-2
Pace Project No.: 92587089

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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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2
Pace Project No.: 92587089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587089001	**YGWC-28S**				
92587089002	**YGWC-28I**				
92587089004	**YGWC-29I**				
92587089006	**YGWC-27S**				
92587089010	**YGWC-26S**				
92587089011	**YGWC-26I**				
92587089012	**YGWC-27I**				
92587089001	**YGWC-28S**	EPA 3010A	680120	EPA 6010D	680402
92587089002	**YGWC-28I**	EPA 3010A	680120	EPA 6010D	680402
92587089003	**AP-2-DUP-1**	EPA 3010A	680120	EPA 6010D	680402
92587089004	**YGWC-29I**	EPA 3010A	680120	EPA 6010D	680402
92587089005	**AP-2-FB-1**	EPA 3010A	680120	EPA 6010D	680402
92587089006	**YGWC-27S**	EPA 3010A	680120	EPA 6010D	680402
92587089007	**AP-2-EB-1**	EPA 3010A	680120	EPA 6010D	680402
92587089008	**AP-2-EB-2**	EPA 3010A	680120	EPA 6010D	680402
92587089009	**AP-2-FB-2**	EPA 3010A	680120	EPA 6010D	680402
92587089010	**YGWC-26S**	EPA 3010A	680120	EPA 6010D	680402
92587089011	**YGWC-26I**	EPA 3010A	680120	EPA 6010D	680402
92587089012	**YGWC-27I**	EPA 3010A	680120	EPA 6010D	680402
92587089001	**YGWC-28S**	EPA 3005A	680115	EPA 6020B	680441
92587089002	**YGWC-28I**	EPA 3005A	680115	EPA 6020B	680441
92587089003	**AP-2-DUP-1**	EPA 3005A	680115	EPA 6020B	680441
92587089004	**YGWC-29I**	EPA 3005A	680115	EPA 6020B	680441
92587089005	**AP-2-FB-1**	EPA 3005A	680115	EPA 6020B	680441
92587089006	**YGWC-27S**	EPA 3005A	680115	EPA 6020B	680441
92587089007	**AP-2-EB-1**	EPA 3005A	680115	EPA 6020B	680441
92587089008	**AP-2-EB-2**	EPA 3005A	680115	EPA 6020B	680441
92587089009	**AP-2-FB-2**	EPA 3005A	680115	EPA 6020B	680441
92587089010	**YGWC-26S**	EPA 3005A	680115	EPA 6020B	680441
92587089011	**YGWC-26I**	EPA 3005A	680115	EPA 6020B	680441
92587089012	**YGWC-27I**	EPA 3005A	680115	EPA 6020B	680441
92587089001	**YGWC-28S**	EPA 7470A	678406	EPA 7470A	678665
92587089002	**YGWC-28I**	EPA 7470A	678406	EPA 7470A	678665
92587089003	**AP-2-DUP-1**	EPA 7470A	678406	EPA 7470A	678665
92587089004	**YGWC-29I**	EPA 7470A	678406	EPA 7470A	678665
92587089005	**AP-2-FB-1**	EPA 7470A	678406	EPA 7470A	678665
92587089006	**YGWC-27S**	EPA 7470A	678406	EPA 7470A	678665
92587089007	**AP-2-EB-1**	EPA 7470A	678406	EPA 7470A	678665
92587089008	**AP-2-EB-2**	EPA 7470A	678406	EPA 7470A	678665
92587089009	**AP-2-FB-2**	EPA 7470A	678406	EPA 7470A	678665
92587089010	**YGWC-26S**	EPA 7470A	678406	EPA 7470A	678665
92587089011	**YGWC-26I**	EPA 7470A	678406	EPA 7470A	678665
92587089012	**YGWC-27I**	EPA 7470A	678406	EPA 7470A	678665
92587089001	**YGWC-28S**	SM 2540C-2015	678110		
92587089002	**YGWC-28I**	SM 2540C-2015	678110		
92587089003	**AP-2-DUP-1**	SM 2540C-2015	678110		
92587089004	**YGWC-29I**	SM 2540C-2015	678110		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2
Pace Project No.: 92587089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587089005	**AP-2-FB-1**	SM 2540C-2015	678110		
92587089006	**YGWC-27S**	SM 2540C-2015	678110		
92587089007	**AP-2-EB-1**	SM 2540C-2015	678110		
92587089008	**AP-2-EB-2**	SM 2540C-2015	678370		
92587089009	**AP-2-FB-2**	SM 2540C-2015	678370		
92587089010	**YGWC-26S**	SM 2540C-2015	679091		
92587089011	**YGWC-26I**	SM 2540C-2015	679091		
92587089012	**YGWC-27I**	SM 2540C-2015	679091		
92587089001	**YGWC-28S**	EPA 300.0 Rev 2.1 1993	678235		
92587089002	**YGWC-28I**	EPA 300.0 Rev 2.1 1993	678235		
92587089003	**AP-2-DUP-1**	EPA 300.0 Rev 2.1 1993	678235		
92587089004	**YGWC-29I**	EPA 300.0 Rev 2.1 1993	678235		
92587089005	**AP-2-FB-1**	EPA 300.0 Rev 2.1 1993	678235		
92587089006	**YGWC-27S**	EPA 300.0 Rev 2.1 1993	678235		
92587089007	**AP-2-EB-1**	EPA 300.0 Rev 2.1 1993	678235		
92587089008	**AP-2-EB-2**	EPA 300.0 Rev 2.1 1993	678537		
92587089009	**AP-2-FB-2**	EPA 300.0 Rev 2.1 1993	678537		
92587089010	**YGWC-26S**	EPA 300.0 Rev 2.1 1993	679328		
92587089011	**YGWC-26I**	EPA 300.0 Rev 2.1 1993	679328		
92587089012	**YGWC-27I**	EPA 300.0 Rev 2.1 1993	679328		

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# : 92587089

92587089

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:** _____

***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# : 92587089**

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)	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		1	1			1																		2			
7		1	1			1																		2			
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:		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 AP-2	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)	
1	~~YGWC-26S~~	WT	G	—	—	–	–		~~5~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		
2	~~YGWC-26I~~	WT	G	–	–	–	–		~~5~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH:
3	~~YGWC-27S~~	WT	G	~~2/8/22~~	~~1737~~	–	–		~~5~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH:
4	~~YGWC-27I~~	WT	G	—	—	–	–		~~5~~	~~3~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH:
5	YGWC-28S	WT	G	2/8/22	1521	–	–		5	2		3							X	X	X	X		pH: 6.30
6	YGWC-28I	WT	G	2/8/22	1647	–	–		5	2		3							X	X	X	X		pH: 6.34
7	AP-2-DUP-1	WT	G	2/8/22	–	–	–		5	2		3							X	X	X	X		pH:
8	YGWC-29I	WT	G	2/8/22	1402	–	–		5	2		3							X	X	X	X		pH: 5.88
9	~~AP-2-EB-1~~	WT	G	~~2/8/22~~	~~1829~~	–	–		5	2		3							X	X	X	X		pH:
10	~~AP-2-EB-2~~	WT	G	—	—	–	–		~~5~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH:
11	AP-2-FB-1	WT	G	2/3/22	1535	–	–		5	2		3							X	X	X	X		pH:
12	~~AP-2-FB-2~~	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	825	/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:	Mark Chest				
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 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 AP-2
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-26S~~	WT	G			–	–		~~6~~ 5	2		3						X	X	X	X		pH:
2	~~YGWC-26I~~	WT	G			–	–		~~6~~ 5	2		3						X	X	X	X		pH:
3	YGWC-27S	WT	G	2/8/22	1737	–	–		5	2		3						X	X	X	X		pH: 6.22
4	~~YGWC-27I~~	WT	G			–	–		~~6~~ 5	2		3						X	X	X	X		pH:
5	~~YGWC-28S~~	WT	G			–	–		~~6~~ 5	2		3						X	X	X	X		pH:
6	~~YGWC-28I~~	WT	G			–	–		~~6~~ 5	2		3						X	X	X	X		pH:
7	~~AP-2-DUP-1~~	WT	G			–	–		5	2		3						X	X	X	X		pH:
8	~~YGWC-29I~~	WT	G			–	–		~~6~~ 5	2		3						X	X	X	X		pH:
9	AP-2-EB-1	WT	G	2/8/22	1827	–	–		5	2		3						X	X	X	X		pH:
10	~~AP-2-EB-2~~	WT	G			–	–		~~6~~ 5	2		3						X	X	X	X		pH:
11	~~AP-2-FB-1~~	WT	G			–	–		~~6~~ 5	2		3						X	X	X	X		pH:
12	~~AP-2-FB-2~~	WT	G			–	–		~~6~~ 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)	Jessica Ware /Arcadis	2/9/22	0828	/Arcadis	2/9/22	0828	
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: 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 Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 17, 2022

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

RE: Project: YATES AP-2 RAD
Pace Project No.: 92587078

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,

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 AP-2 RAD
Pace Project No.: 92587078

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 AP-2 RAD
Pace Project No.: 92587078

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587078001	**YGWC-28S**	Water	02/08/22 15:21	02/09/22 10:18
92587078002	**YGWC-28I**	Water	02/08/22 16:17	02/09/22 10:18
92587078003	**AP-2-DUP-1**	Water	02/08/22 00:00	02/09/22 10:18
92587078004	**YGWC-29I**	Water	02/08/22 14:02	02/09/22 10:18
92587078005	**AP-2-FB-1**	Water	02/08/22 15:35	02/09/22 10:18
92587078006	**YGWC-27S**	Water	02/08/22 17:37	02/09/22 10:18
92587078007	**AP-2-EB-1**	Water	02/08/22 18:27	02/09/22 10:18
92587078008	**AP-2-EB-2**	Water	02/09/22 18:45	02/10/22 17:00
92587078009	**AP-2-FB-2**	Water	02/09/22 16:45	02/10/22 17:00
92587078010	**YGWC-26S**	Water	02/10/22 09:15	02/11/22 16:45
92587078011	**YGWC-26I**	Water	02/10/22 10:25	02/11/22 16:45
92587078012	**YGWC-27I**	Water	02/10/22 11:45	02/11/22 16:45

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

SAMPLE ANALYTE COUNT

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587078001	**YGWC-28S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078002	**YGWC-28I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078003	**AP-2-DUP-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078004	**YGWC-29I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078005	**AP-2-FB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078006	**YGWC-27S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078007	**AP-2-EB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078008	**AP-2-EB-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078009	**AP-2-FB-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078010	**YGWC-26S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078011	**YGWC-26I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078012	**YGWC-27I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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

SAMPLE ANALYTE COUNT

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory

PASI-PA = Pace Analytical Services - Greensburg

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

SUMMARY OF DETECTION

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587078001	**YGWC-28S**					
EPA 9315	Radium-226	0.273 ± 0.141 (0.182) C:84% T:NA	pCi/L		03/10/22 08:55	
EPA 9320	Radium-228	0.691 ± 0.351 (0.604) C:78% T:90%	pCi/L		03/07/22 11:51	
Total Radium Calculation	Total Radium	0.964 ± 0.492 (0.786)	pCi/L		03/14/22 21:54	
92587078002	**YGWC-28I**					
EPA 9315	Radium-226	0.0326 ± 0.0715 (0.169) C:92% T:NA	pCi/L		03/10/22 08:55	
EPA 9320	Radium-228	1.04 ± 0.575 (1.05) C:80% T:87%	pCi/L		03/07/22 15:12	
Total Radium Calculation	Total Radium	1.07 ± 0.647 (1.22)	pCi/L		03/14/22 21:54	
92587078003	**AP-2-DUP-1**					
EPA 9315	Radium-226	0.0621 ± 0.0828 (0.173) C:94% T:NA	pCi/L		03/10/22 09:20	
EPA 9320	Radium-228	0.334 ± 0.282 (0.556) C:74% T:89%	pCi/L		03/07/22 11:48	
Total Radium Calculation	Total Radium	0.396 ± 0.365 (0.729)	pCi/L		03/14/22 21:54	
92587078004	**YGWC-29I**					
EPA 9315	Radium-226	0.0450 ± 0.0839 (0.192) C:93% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	0.0585 ± 0.262 (0.600) C:77% T:88%	pCi/L		03/07/22 11:48	
Total Radium Calculation	Total Radium	0.104 ± 0.346 (0.792)	pCi/L		03/14/22 21:54	

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SUMMARY OF DETECTION

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587078005	**AP-2-FB-1**					
EPA 9315	Radium-226	0.0348 ± 0.0741 (0.174) C:95% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	0.212 ± 0.290 (0.621) C:81% T:94%	pCi/L		03/07/22 11:48	
Total Radium Calculation	Total Radium	0.247 ± 0.364 (0.795)	pCi/L		03/14/22 21:54	
92587078006	**YGWC-27S**					
EPA 9315	Radium-226	0.102 ± 0.108 (0.219) C:96% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	0.679 ± 0.475 (0.941) C:78% T:87%	pCi/L		03/07/22 11:54	
Total Radium Calculation	Total Radium	0.781 ± 0.583 (1.16)	pCi/L		03/14/22 21:54	
92587078007	**AP-2-EB-1**					
EPA 9315	Radium-226	0.0328 ± 0.0804 (0.192) C:93% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	-0.0965 ± 0.417 (0.969) C:78% T:88%	pCi/L		03/07/22 11:54	
Total Radium Calculation	Total Radium	0.0328 ± 0.497 (1.16)	pCi/L		03/14/22 21:54	
92587078008	**AP-2-EB-2**					
EPA 9315	Radium-226	0.0200 ± 0.0677 (0.170) C:99% T:NA	pCi/L		03/11/22 07:49	
EPA 9320	Radium-228	0.492 ± 0.327 (0.614) C:79% T:90%	pCi/L		03/04/22 14:05	
Total Radium Calculation	Total Radium	0.512 ± 0.395 (0.784)	pCi/L		03/14/22 21:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587078009	**AP-2-FB-2**					
EPA 9315	Radium-226	0.0502 ± 0.0688 (0.144) C:97% T:NA	pCi/L		03/11/22 07:50	
EPA 9320	Radium-228	-0.122 ± 0.281 (0.689) C:77% T:88%	pCi/L		03/04/22 14:05	
Total Radium Calculation	Total Radium	0.0502 ± 0.350 (0.833)	pCi/L		03/14/22 21:54	
92587078010	**YGWC-26S**					
EPA 9315	Radium-226	0.0338 ± 0.0890 (0.215) C:99% T:NA	pCi/L		03/08/22 08:27	
EPA 9320	Radium-228	0.397 ± 0.385 (0.787) C:94% T:88%	pCi/L		03/07/22 18:22	
Total Radium Calculation	Total Radium	0.431 ± 0.474 (1.00)	pCi/L		03/13/22 14:44	
92587078011	**YGWC-26I**					
EPA 9315	Radium-226	0.149 ± 0.125 (0.232) C:101% T:NA	pCi/L		03/08/22 08:27	
EPA 9320	Radium-228	-0.127 ± 0.359 (0.876) C:87% T:88%	pCi/L		03/07/22 18:22	
Total Radium Calculation	Total Radium	0.149 ± 0.484 (1.11)	pCi/L		03/13/22 14:44	
92587078012	**YGWC-27I**					
EPA 9315	Radium-226	-0.0234 ± 0.104 (0.288) C:93% T:NA	pCi/L		03/08/22 08:28	
EPA 9320	Radium-228	1.23 ± 0.543 (0.873) C:85% T:84%	pCi/L		03/07/22 18:23	
Total Radium Calculation	Total Radium	1.23 ± 0.647 (1.16)	pCi/L		03/13/22 14:44	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: YGWC-28S **Lab ID: 92587078001** Collected: 02/08/22 15:21 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	**0.273 ± 0.141 (0.182) C:84% T:NA**	pCi/L	03/10/22 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.691 ± 0.351 (0.604) C:78% T:90%**	pCi/L	03/07/22 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.964 ± 0.492 (0.786)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: YGWC-28I **Lab ID: 92587078002** Collected: 02/08/22 16:17 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	**0.0326 ± 0.0715 (0.169) C:92% T:NA**	pCi/L	03/10/22 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.04 ± 0.575 (1.05) C:80% T:87%**	pCi/L	03/07/22 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.07 ± 0.647 (1.22)**	pCi/L	03/14/22 21:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: AP-2-DUP-1 **Lab ID: 92587078003** 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	**0.0621 ± 0.0828 (0.173) C:94% T:NA**	pCi/L	03/10/22 09:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.334 ± 0.282 (0.556) C:74% T:89%**	pCi/L	03/07/22 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.396 ± 0.365 (0.729)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: YGWC-29I **Lab ID: 92587078004** Collected: 02/08/22 14:02 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	**0.0450 ± 0.0839 (0.192) C:93% T:NA**	pCi/L	03/10/22 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0585 ± 0.262 (0.600) C:77% T:88%**	pCi/L	03/07/22 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.104 ± 0.346 (0.792)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: AP-2-FB-1 **Lab ID: 92587078005** Collected: 02/08/22 15:35 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	**0.0348 ± 0.0741 (0.174) C:95% T:NA**	pCi/L	03/10/22 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.212 ± 0.290 (0.621) C:81% T:94%**	pCi/L	03/07/22 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.247 ± 0.364 (0.795)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: YGWC-27S **Lab ID: 92587078006** Collected: 02/08/22 17:37 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	**0.102 ± 0.108 (0.219) C:96% T:NA**	pCi/L	03/10/22 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.679 ± 0.475 (0.941) C:78% T:87%**	pCi/L	03/07/22 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.781 ± 0.583 (1.16)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: AP-2-EB-1 **Lab ID: 92587078007** Collected: 02/08/22 18:27 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	**0.0328 ± 0.0804 (0.192) C:93% T:NA**	pCi/L	03/10/22 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0965 ± 0.417 (0.969) C:78% T:88%**	pCi/L	03/07/22 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0328 ± 0.497 (1.16)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: AP-2-EB-2 **Lab ID: 92587078008** Collected: 02/09/22 18:45 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	**0.0200 ± 0.0677 (0.170) C:99% T:NA**	pCi/L	03/11/22 07:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.492 ± 0.327 (0.614) C:79% T:90%**	pCi/L	03/04/22 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.512 ± 0.395 (0.784)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: AP-2-FB-2 **Lab ID: 92587078009** Collected: 02/09/22 16:45 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	**0.0502 ± 0.0688 (0.144) C:97% T:NA**	pCi/L	03/11/22 07:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.122 ± 0.281 (0.689) C:77% T:88%**	pCi/L	03/04/22 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0502 ± 0.350 (0.833)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: YGWC-26S **Lab ID: 92587078010** Collected: 02/10/22 09:15 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	**0.0338 ± 0.0890 (0.215) C:99% T:NA**	pCi/L	03/08/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.397 ± 0.385 (0.787) C:94% T:88%**	pCi/L	03/07/22 18:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.431 ± 0.474 (1.00)**	pCi/L	03/13/22 14:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: YGWC-26I **Lab ID: 92587078011** Collected: 02/10/22 10:25 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	**0.149 ± 0.125 (0.232) C:101% T:NA**	pCi/L	03/08/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.127 ± 0.359 (0.876) C:87% T:88%**	pCi/L	03/07/22 18:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.149 ± 0.484 (1.11)**	pCi/L	03/13/22 14:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Sample: YGWC-27I **Lab ID: 92587078012** Collected: 02/10/22 11:45 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	**-0.0234 ± 0.104 (0.288) C:93% T:NA**	pCi/L	03/08/22 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.23 ± 0.543 (0.873) C:85% T:84%**	pCi/L	03/07/22 18:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.23 ± 0.647 (1.16)**	pCi/L	03/13/22 14:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

QC Batch: 485935
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007, 92587078008, 92587078009

METHOD BLANK: 2349823 Matrix: Water
Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007, 92587078008, 92587078009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0233 ± 0.0709 (0.175) C:97% T:NA	pCi/L	03/10/22 08:55	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

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: 92587078010, 92587078011, 92587078012

METHOD BLANK: 2353259 Matrix: Water
Associated Lab Samples: 92587078010, 92587078011, 92587078012

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	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

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: 92587078010, 92587078011, 92587078012

METHOD BLANK: 2353494 Matrix: Water
Associated Lab Samples: 92587078010, 92587078011, 92587078012

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	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

QC Batch: 486656 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007

METHOD BLANK: 2353491 Matrix: Water
Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.534 ± 0.356 (0.681) C:77% T:89%	pCi/L	03/07/22 11:50	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

QC Batch: 486654
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587078008, 92587078009

METHOD BLANK: 2353485 Matrix: Water
Associated Lab Samples: 92587078008, 92587078009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0646 ± 0.235 (0.535) C:84% T:93%	pCi/L	03/04/22 10:45	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YATES AP-2 RAD
Pace Project No.: 92587078

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 AP-2 RAD
Pace Project No.: 92587078

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587078001	**YGWC-28S**	EPA 9315	485935		
92587078002	**YGWC-28I**	EPA 9315	485935		
92587078003	**AP-2-DUP-1**	EPA 9315	485935		
92587078004	**YGWC-29I**	EPA 9315	485935		
92587078005	**AP-2-FB-1**	EPA 9315	485935		
92587078006	**YGWC-27S**	EPA 9315	485935		
92587078007	**AP-2-EB-1**	EPA 9315	485935		
92587078008	**AP-2-EB-2**	EPA 9315	485935		
92587078009	**AP-2-FB-2**	EPA 9315	485935		
92587078010	**YGWC-26S**	EPA 9315	486611		
92587078011	**YGWC-26I**	EPA 9315	486611		
92587078012	**YGWC-27I**	EPA 9315	486611		
92587078001	**YGWC-28S**	EPA 9320	486656		
92587078002	**YGWC-28I**	EPA 9320	486656		
92587078003	**AP-2-DUP-1**	EPA 9320	486656		
92587078004	**YGWC-29I**	EPA 9320	486656		
92587078005	**AP-2-FB-1**	EPA 9320	486656		
92587078006	**YGWC-27S**	EPA 9320	486656		
92587078007	**AP-2-EB-1**	EPA 9320	486656		
92587078008	**AP-2-EB-2**	EPA 9320	486654		
92587078009	**AP-2-FB-2**	EPA 9320	486654		
92587078010	**YGWC-26S**	EPA 9320	486658		
92587078011	**YGWC-26I**	EPA 9320	486658		
92587078012	**YGWC-27I**	EPA 9320	486658		
92587078001	**YGWC-28S**	Total Radium Calculation	490237		
92587078002	**YGWC-28I**	Total Radium Calculation	490237		
92587078003	**AP-2-DUP-1**	Total Radium Calculation	490237		
92587078004	**YGWC-29I**	Total Radium Calculation	490237		
92587078005	**AP-2-FB-1**	Total Radium Calculation	490237		
92587078006	**YGWC-27S**	Total Radium Calculation	490237		
92587078007	**AP-2-EB-1**	Total Radium Calculation	490237		
92587078008	**AP-2-EB-2**	Total Radium Calculation	490237		
92587078009	**AP-2-FB-2**	Total Radium Calculation	490237		
92587078010	**YGWC-26S**	Total Radium Calculation	489944		
92587078011	**YGWC-26I**	Total Radium Calculation	489944		
92587078012	**YGWC-27I**	Total Radium Calculation	489944		

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# : 92587078

92587078

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, LLHg

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

Project #

WO# : 92587078

PM: NMG Due Date: 03/02/22

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)	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		1	1			1																		2			
7		1	1			1																		2			
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 AP-2
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)
1	~~YGWC-26S~~	WT	G	—	—	–	–		5	2		3						X	X	X	X		pH:
2	~~YGWC-26I~~	WT	G	–	–	–	–		5	2		3						X	X	X	X		pH:
3	~~YGWC-27S~~	WT	G	2/8/22	1737	–	–		5	2		3						X	X	X	X		pH:
4	~~YGWC-27I~~	WT	G	—	—	–	–		5	2		3						X	X	X	X		pH:
5	YGWC-28S	WT	G	2/9/22	1521	–	–		5	2		3						X	X	X	X		pH: 6.30
6	YGWC-28I	WT	G	2/9/22	1647	–	–		5	2		3						X	X	X	X		pH: 6.34
7	AP-2-DUP-1	WT	G	2/8/22	–	–	–		5	2		3						X	X	X	X		pH:
8	YGWC-29I	WT	G	2/8/22	1402	–	–		5	2		3						X	X	X	X		pH: 5.88
9	~~AP-2-EB-1~~	WT	G	~~2/8/22~~	~~1829~~	–	–		5	2		3						X	X	X	X		pH:
10	~~AP-2-EB-2~~	WT	G	—	—	–	–		5	2		3						X	X	X	X		pH:
11	AP-2-FB-1	WT	G	2/3/22	1535	–	–		5	2		3						X	X	X	X		pH:
12	~~AP-2-FB-2~~	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	825	/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: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/21

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 AP-2
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 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 (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	Residual Chlorine (Y/N)	
1	~~YGWC-26S~~	WT	G			–	–		~~6~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH: —
2	~~YGWC-26I~~	WT	G			–	–		~~3~~	~~2~~		~~3~~							X	X	X	X		pH: —
3	YGWC-27S	WT	G	2/8/22	1737	–	–		5	2		3							X	X	X	X		pH: 6.22
4	~~YGWC-27I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH: —
5	~~YGWC-28S~~	WT	G			–	–		~~6~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH: —
6	~~YGWC-28I~~	WT	G			–	–		~~5~~	~~2~~		3							~~X~~	~~X~~	~~X~~	~~X~~		pH: —
7	~~AP-2-DUP-1~~	WT	G			–	–		5	~~2~~		3							~~X~~	~~X~~	~~X~~	~~X~~		pH: —
8	~~YGWC-29I~~	WT	G			–	–		~~5~~	2		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH: —
9	AP-2-EB-1	WT	G	2/8/22	1827	–	–		5	2		3							X	X	X	X		pH:
10	~~AP-2-EB-2~~	WT	G			–	–		5	2		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH: —
11	~~AP-2-FB-1~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							~~X~~	~~X~~	~~X~~	~~X~~		pH: —
12	~~AP-2-FB-2~~	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	0828	/Arcadis	2/9/22	0828	
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: 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)

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	JSM
Date:	3/3/2022
Worklist:	65309
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2353491
MB concentration:	0.534
M/B 2 Sigma CSU:	0.356
MB MDC:	0.681
MB Numerical Performance Indicator:	2.94
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65309	**LCSD65309**
Count Date:	3/7/2022	3/7/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.090	36.090
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.810	0.805
Target Conc. (pCi/L, g, F):	4.454	4.482
Uncertainty (Calculated):	0.218	0.220
Result (pCi/L, g, F):	4.392	4.287
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.963	0.935
Numerical Performance Indicator:	-0.12	-0.40
Percent Recovery:	98.60%	95.66%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS65309	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD65309	
Sample Result (pCi/L, g, F):	4.392	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.963	
Sample Duplicate Result (pCi/L, g, F):	4.287	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.935	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.153	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.03%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

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

Comments:

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 OK
(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

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	JC2
Date:	3/1/2022
Worklist:	65294
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2353259
MB concentration:	-0.033
M/B Counting Uncertainty:	0.055
MB MDC:	0.191
MB Numerical Performance Indicator:	-1.16
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65294	**LCSD65294**
Count Date:	3/8/2022	3/8/2022
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):	0.503	0.506
Target Conc. (pCi/L, g, F):	4.777	4.752
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.910	4.441
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.508	0.466
Numerical Performance Indicator:	0.51	-1.30
Percent Recovery:	102.79%	93.46%
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.:	LCS65294	92587080025
Duplicate Sample I.D.	LCSD65294	92587080025DUP
Sample Result (pCi/L, g, F):	4.910	0.708
Sample Result Counting Uncertainty (pCi/L, g, F):	0.508	0.212
Sample Duplicate Result (pCi/L, g, F):	4.441	0.789
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.466	0.203
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.334	-0.540
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.51%	10.80%
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:

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 3/2/2022
Worklist: 65310
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2353492
MB concentration:	0.110
M/B 2 Sigma CSU:	0.223
MB MDC:	0.492
MB Numerical Performance Indicator:	0.97
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65310	**LCSD65310**
Count Date:	3/4/2022	3/4/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.127	36.127
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.814	0.816
Target Conc. (pCi/L, g, F):	4.438	4.425
Uncertainty (Calculated):	0.217	0.217
Result (pCi/L, g, F):	4.343	3.967
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.032	0.892
Numerical Performance Indicator:	-0.18	-0.98
Percent Recovery:	97.87%	89.64%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS65310	Enter Duplicate
Duplicate Sample I.D.	LCSD65310	sample IDs if
Sample Result (pCi/L, g, F):	4.343	other than
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.032	LCS/LCSD in
Sample Duplicate Result (pCi/L, g, F):	3.967	the space below.
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.892	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.541	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.78%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

3/8/22

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

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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

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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
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
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
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
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
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

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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

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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
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

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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
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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
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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
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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
Peachtree Corners, GA 30092
(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
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(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
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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
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(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

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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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REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

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

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(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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Peachtree Corners, GA 30092
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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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REPORT OF LABORATORY ANALYSIS

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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	

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 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

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 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

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 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		

Pace Analytical Services, LLC
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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
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)

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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) 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)

CHAIN-OF-CUSTODY / Analytical Request Document

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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 #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

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)	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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Page : 1 Of 1

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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

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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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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-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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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
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Project Number:	

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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	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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Page : Of

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
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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)

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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

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

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

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

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

Page : 3 Of 7

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	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 Carter /Arcadis	02/11/22	1645	[illegible signature]	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 Carter

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

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

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-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:

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 Carson / Arcadis	02-11-45	1645	Joann Pach	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

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

Page : 5 Of 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 Pooled Upgradient	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

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	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						–	–																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson /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

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

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)						

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
Peachtree Corners, GA 30092
(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

Pace Analytical Services, LLC
110 Technology Parkway
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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

Pace Analytical Services, LLC
110 Technology Parkway
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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

Pace Analytical Services, LLC
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
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

Pace Analytical Services, LLC
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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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
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

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

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	

Pace Analytical Services, LLC
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
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	

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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	

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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	

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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	

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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	

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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	

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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	

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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	

REPORT OF LABORATORY ANALYSIS

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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	

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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
110 Technology Parkway
Peachtree Corners, GA 30092
(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

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: 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	

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: 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	

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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Peachtree Corners, GA 30092
(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

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(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
110 Technology Parkway
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		

Pace Analytical Services, LLC
110 Technology Parkway
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
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

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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

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

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 (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	[illegible]	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

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

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 (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	1445	Joann [illegible]	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

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

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 C

Statistical Analysis

Appendix III Statistically Significant Increase Summary (February 2022)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S

GROUNDWATER STATS CONSULTING

August 31, 2022

Southern Company Services
Attn: Ms. Lauren Coker
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2)
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 AP-2. 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-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29I

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 well/constituent pairs containing 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 should not be 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 background screening performed in 2017 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 Groundwater Protections Standards (GWPS) for Appendix IV constituents

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects 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 Update – Appendix III and IV Constituents - Conducted in March 2020

Outlier Analysis

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended. During the March 2020 1st semi-annual analysis, data were screened for the purpose of updating the statistical limits as described below.

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 upgradient wells for Appendix III and all wells for Appendix IV parameters are 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, a couple outliers were identified. While this is not the case in the present data set, 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.

Only one of the outliers identified by Tukey's method (combined radium 226 + 228 in downgradient well YGWC-26I) was flagged in the database as all other values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. 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. A summary of outlier results follows this letter (Figure C).

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 test was used to evaluate all data at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters to identify statistically significant increasing or decreasing. 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 for the Appendix III and IV parameters showed statistically significant decreasing trends for a handful of constituents and statistically significant increasing trends for calcium, cobalt, combined radium 226 + 228, and sulfate. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only three 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.

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. No new outliers were flagged for Appendix III parameters.

The reported measurement of 451 mg/L for sulfate in well YGWC-27S during the March 2021 sample event was considerably higher than remaining measurements at this well. This value was not flagged as outlier, but if further review demonstrates this value to be anomalous, it will be flagged as an outlier in the database. 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).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through February 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 (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result 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. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29I
- Chloride: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, and YGWC-28S

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 downgradient and associated upgradient well/constituent pairs:

Increasing:
- Chloride: YGWA-17S and YGWA-20S (both upgradient)

Decreasing:
- Boron: YGWA-40 (upgradient), YGWC-26I, and YGWC-29I
- Chloride: YGWA-3D (upgradient), YGWA-3I (upgradient), YGWA-47 (upgradient), YGWA-5D (upgradient), YGWC-26S, YGWC-27S, and YGWC-28I

A complete list of trend test results and all statistically significant increasing and decreasing trends may be found following this letter in the Trend Test Summary Table.

Statistical Analysis of Appendix IV Parameters – February 2022

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects or trace values below the reporting limits do not require analysis. Data from all 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 they were 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 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 using data through February 2022 were constructed for each of the Appendix IV constituents in each downgradient well with 4 or more samples (Figure H).

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. 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. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-2. 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
Groundwater Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 4/27/2022 1:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Antimony (mg/L)
YGWC-28I, YGWC-28S

Beryllium (mg/L)
YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29I

Cadmium (mg/L)
YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Cobalt (mg/L)
YGWC-26I

Lead (mg/L)
YGWC-27I, YGWC-28I

Lithium (mg/L)
YGWC-26S

Molybdenum (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S

Selenium (mg/L)
YGWC-27I, YGWC-27S, YGWC-29I

Thallium (mg/L)
YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S, YGWC-29I

Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 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-26I	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/10/2022	2.5	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/8/2022	1.1	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	2/8/2022	0.71	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	10.9	n/a	2/10/2022	15.4	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	10.9	n/a	2/10/2022	14	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	10.9	n/a	2/10/2022	13.1	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	10.9	n/a	2/8/2022	13	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	10.9	n/a	2/8/2022	15.2	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	10.9	n/a	2/8/2022	18.3	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 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-26I**	**0.16**	**n/a**	**2/10/2022**	**0.79**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**2/10/2022**	**0.79**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**2/10/2022**	**2.5**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**2/8/2022**	**1.1**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**2/8/2022**	**2.4**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**2/8/2022**	**2.4**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-29I**	**0.16**	**n/a**	**2/8/2022**	**0.71**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	2/10/2022	16.4	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/10/2022	11.6	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/10/2022	27.4	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/8/2022	27.2	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/8/2022	31.8	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/8/2022	26.7	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	2/8/2022	9.3	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**10.9**	**n/a**	**2/10/2022**	**15.4**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**10.9**	**n/a**	**2/10/2022**	**14**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**10.9**	**n/a**	**2/10/2022**	**13.1**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27S**	**10.9**	**n/a**	**2/8/2022**	**13**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28I**	**10.9**	**n/a**	**2/8/2022**	**15.2**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**10.9**	**n/a**	**2/8/2022**	**18.3**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29I	10.9	n/a	2/8/2022	5.5	No	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	2/10/2022	0.059J	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	2/8/2022	0.087J	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	2/8/2022	0.063J	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	2/8/2022	0.14	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	2/8/2022	0.053J	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	2/10/2022	5.84	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	2/10/2022	5.31	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	2/10/2022	6.23	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	2/8/2022	6.22	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	2/8/2022	6.34	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	2/8/2022	6.3	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.4	2/8/2022	5.88	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/10/2022	81.8	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/10/2022	86.5	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/10/2022	2.4	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/8/2022	16.3	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/8/2022	8.1	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/8/2022	10.5	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	2/8/2022	22.9	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	221.1	n/a	2/10/2022	207	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	221.1	n/a	2/10/2022	168	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	221.1	n/a	2/10/2022	190	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	221.1	n/a	2/8/2022	159	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	221.1	n/a	2/8/2022	206	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	221.1	n/a	2/8/2022	216	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	221.1	n/a	2/8/2022	120	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2

Appendix III Trend Test Summary - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**-0.04006**	**-69**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-29I**	**-0.02921**	**-79**	**-68**	**Yes**	**18**	**0**	**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**
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05275**	**-85**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.03927**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.6877**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-27S**	**-1.358**	**-121**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28I**	**-0.5198**	**-92**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4996**	**-72**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.5046**	**109**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1624**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8339**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Test Summary - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
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
Boron (mg/L)	**YGWC-26I**	**-0.04006**	**-69**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-26S	0.01343	45	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.06976	49	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.03227	-34	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0	-1	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.002972	11	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWC-29I**	**-0.02921**	**-79**	**-68**	**Yes**	**18**	**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)	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)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1623	47	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.01968	-51	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02497	-49	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.03702	-46	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-15	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05275**	**-85**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.03927**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-26I	-0.4093	-64	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-26S**	**-0.6877**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-27I	0	-17	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-27S**	**-1.358**	**-121**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28I**	**-0.5198**	**-92**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-28S	-0.1931	-31	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4996**	**-72**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.5046**	**109**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.0841	61	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1771	67	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1624**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1442	-57	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.6239	40	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2865	51	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.08324	35	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8339**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	1	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2307	58	58	No	16	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:31 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 ASH POND 2 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 - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.00059	0.006	No	17	0.002712	0.0008121	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	17	0.002841	0.0004487	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	17	0.002843	0.0006476	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	17	0.002841	0.0006548	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	17	0.0029	0.0004123	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	21	0.004895	0.0004801	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	21	0.004914	0.0003928	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	21	0.003307	0.002126	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	21	0.004852	0.0006765	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	21	0.004862	0.0006328	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	No	21	0.00332	0.002123	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29I	0.005	0.0033	0.01	No	21	0.004919	0.000371	95.24	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06607	0.0627	2	No	21	0.06439	0.003054	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02872	0.02632	2	No	21	0.02752	0.002175	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.08	0.063	2	No	21	0.07016	0.007752	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1033	0.09001	2	No	21	0.09663	0.01201	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08942	0.08354	2	No	21	0.08648	0.005329	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2217	0.1958	2	No	21	0.2043	0.03757	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0741	0.057	2	No	21	0.07251	0.03261	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.0001	0.004	No	19	0.0001821	0.0001199	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00013	0.004	No	19	0.0002235	0.0001312	15.79	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	19	0.0004566	0.0001301	89.47	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.00043	0.0001	0.005	No	19	0.0002479	0.0001701	10.53	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	19	0.0004989	0.000004588	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002257	0.0001389	0.005	No	19	0.0002526	0.0001256	15.79	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	19	0.003392	0.002155	57.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002127	0.001045	0.1	No	19	0.002578	0.001725	21.05	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	19	0.005368	0.001606	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	19	0.004655	0.003012	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	19	0.004285	0.001697	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	19	0.004294	0.001675	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	19	0.004763	0.001032	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002719	0.001886	0.035	No	21	0.002343	0.0008244	4.762	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.0147	0.003357	0.035	No	21	0.01725	0.02581	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	21	0.002448	0.0006416	4.762	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	21	0.004782	0.0009994	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00091	0.035	No	21	0.001378	0.001211	9.524	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	No	21	0.003955	0.001918	76.19	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.066	0.4848	6.92	No	20	0.7754	0.5117	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8492	0.5341	6.92	No	21	0.6917	0.2857	4.762	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.883	2.537	6.92	No	21	3.21	1.221	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.041	0.6603	6.92	No	21	0.8504	0.3446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	21	0.6556	0.3485	4.762	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9441	0.5386	6.92	No	21	0.7413	0.3675	4.762	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.094	0.6509	6.92	No	21	0.8723	0.4013	4.762	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No	22	0.08409	0.02065	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	22	0.1302	0.09494	72.73	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	No	22	0.09055	0.02574	54.55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.1919	0.09792	4	No	22	0.1575	0.1014	18.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.12	0.078	4	No	22	0.1232	0.07937	22.73	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2565	0.1516	4	No	22	0.204	0.09764	9.091	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.08932	0.05868	4	No	22	0.08573	0.03079	31.82	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	17	0.0008888	0.0003138	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.00008	0.015	No	17	0.0007265	0.0004369	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00037	0.015	No	17	0.0007881	0.0003597	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.00007	0.015	No	17	0.0007244	0.0004402	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	No	17	0.0008424	0.0003513	82.35	None	No	0.01	NP (NDs)

Confidence Intervals - All Results (No Significant)

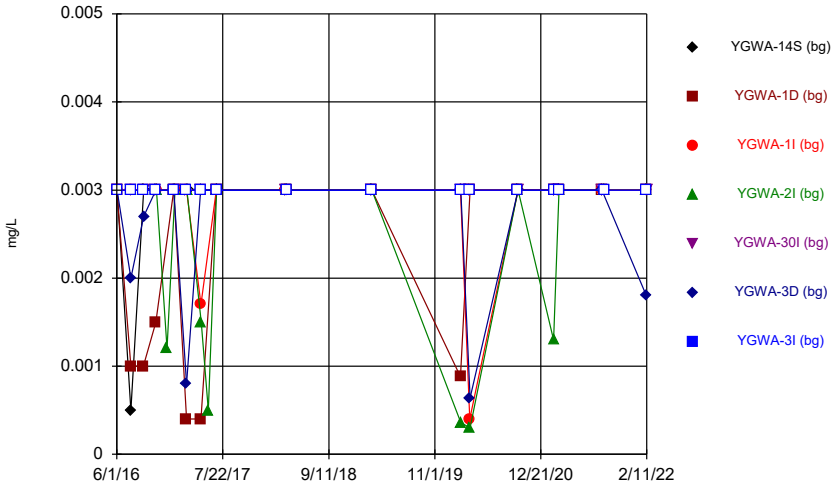
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	YGWC-26I	0.007307	0.006607	0.04	No	21	0.006957	0.0006345	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.0101	0.007874	0.04	No	21	0.008986	0.002015	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	21	0.02724	0.008707	90.48	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.0071	0.00668	0.04	No	21	0.00689	0.0003807	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	21	0.02882	0.00539	95.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	No	21	0.00711	0.005308	4.762	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	15	0.0001801	0.00005243	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	15	0.000181	0.00005024	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	15	0.0001799	0.00005298	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.000049	0.002	No	15	0.0001793	0.00005456	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	15	0.0001899	0.00003925	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	15	0.0001901	0.00003821	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0002	0.000047	0.002	No	15	0.0001791	0.00005526	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	21	0.005662	0.004282	47.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	21	0.004995	0.004443	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	21	0.007795	0.004042	76.19	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	21	0.009563	0.002001	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0034	0.0018	0.05	No	19	0.002574	0.001081	10.53	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	19	0.004174	0.001658	78.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	19	0.0048	0.0008718	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	19	0.004789	0.0009177	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	15	0.0008741	0.0003322	86.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	15	0.000642	0.0004539	60	None	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 4/27/2022 1:21 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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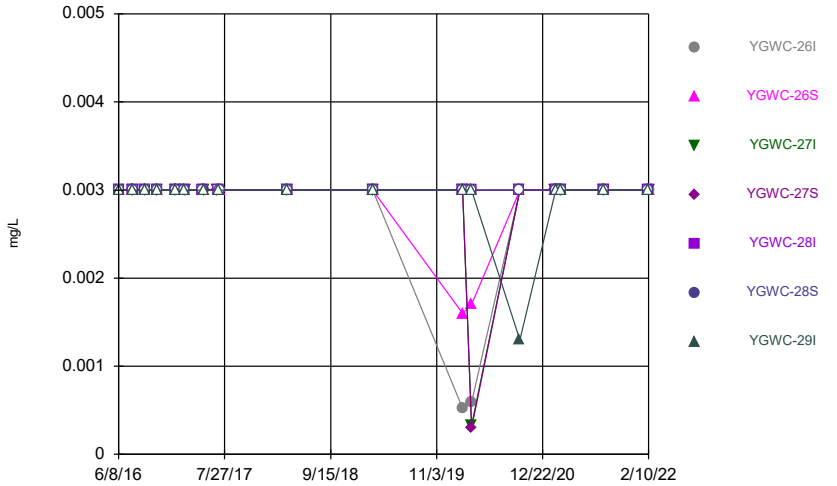

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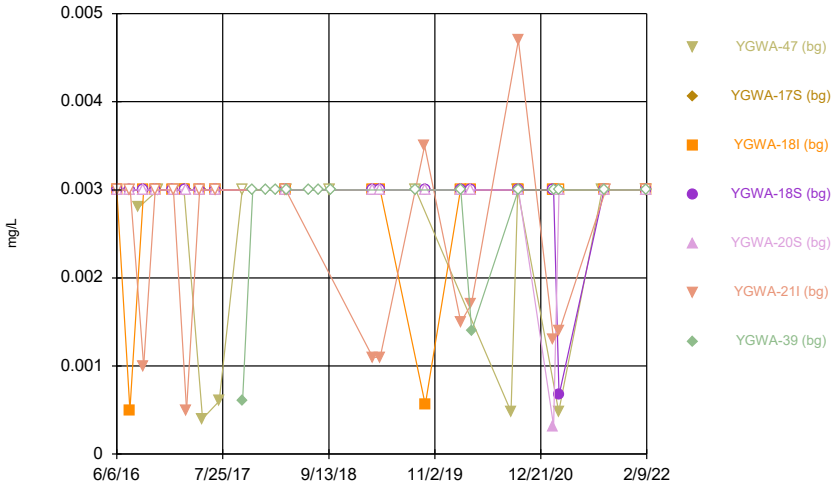

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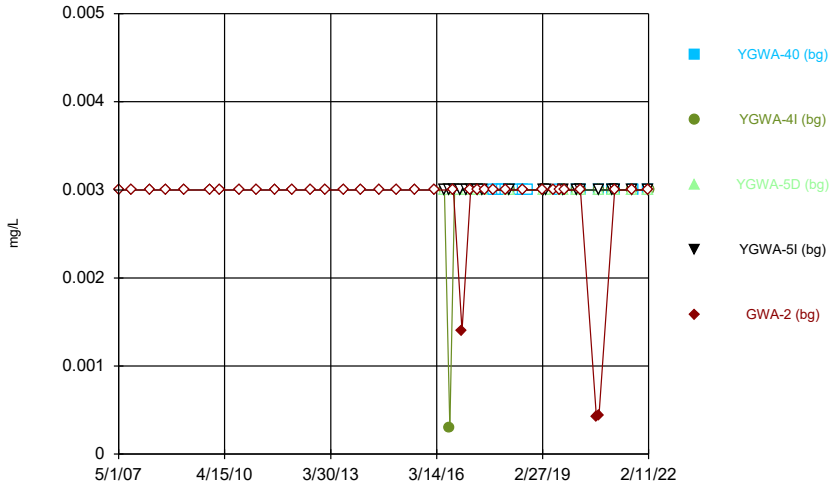

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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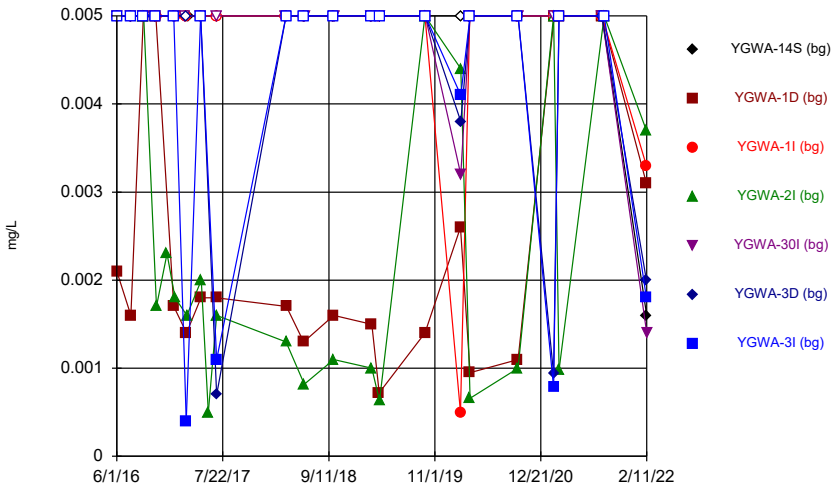

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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Hollow symbols indicate censored values.

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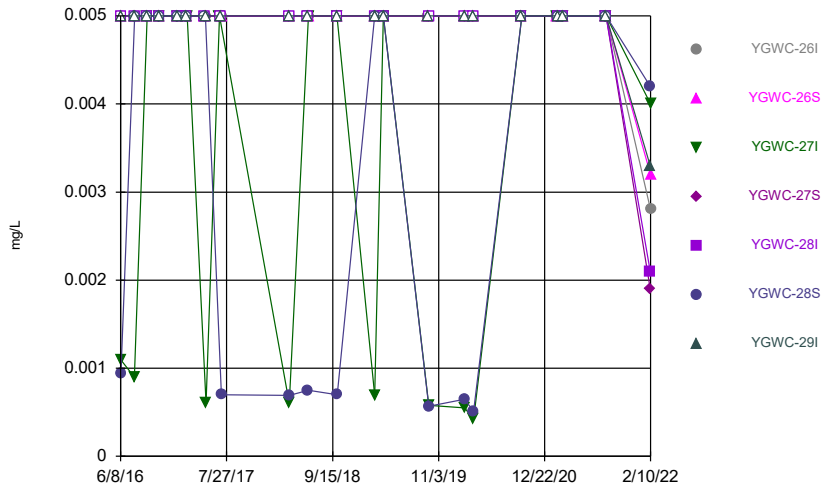

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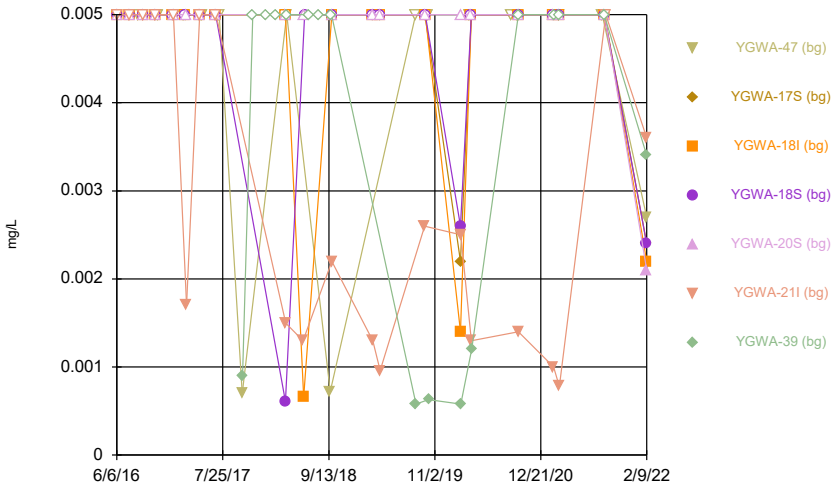

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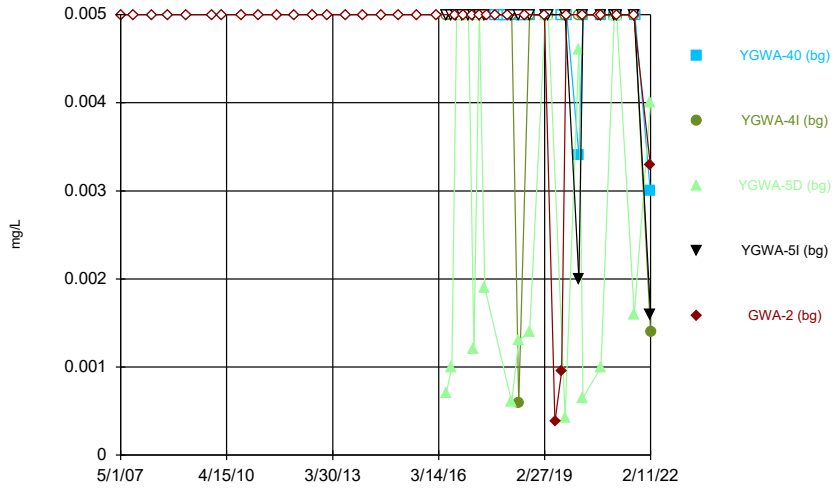

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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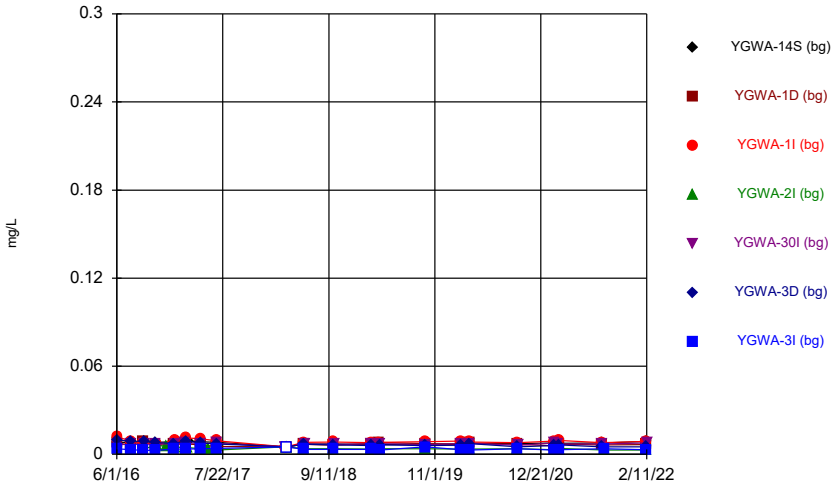

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Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

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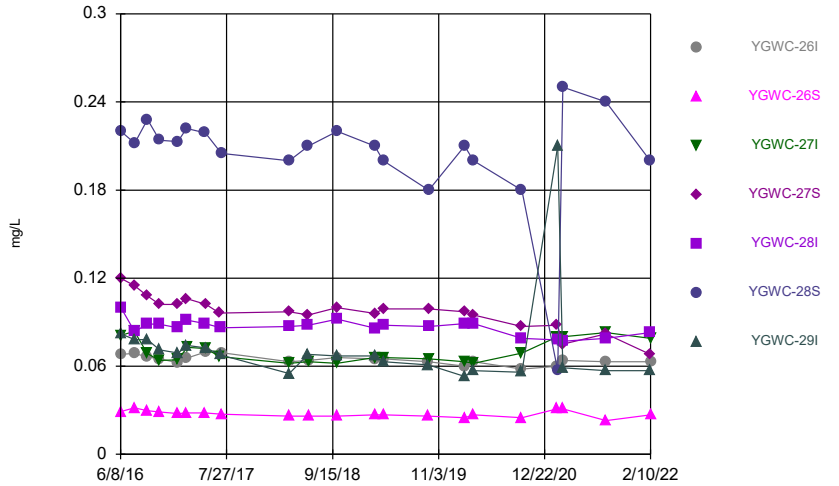

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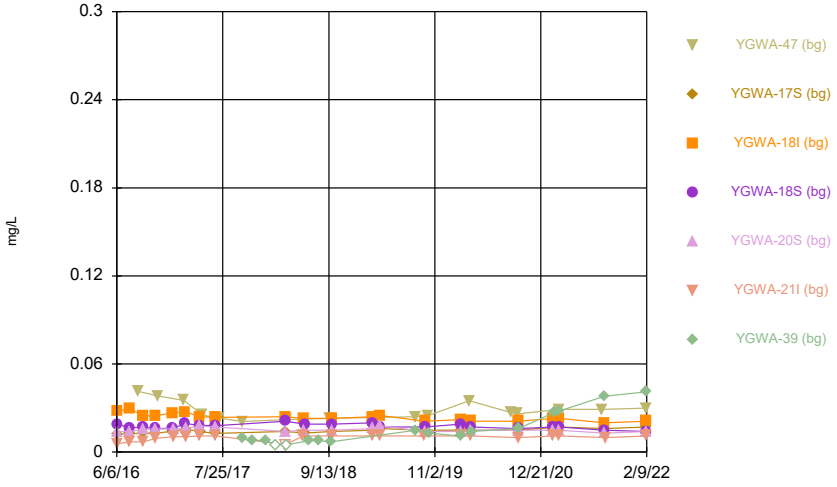

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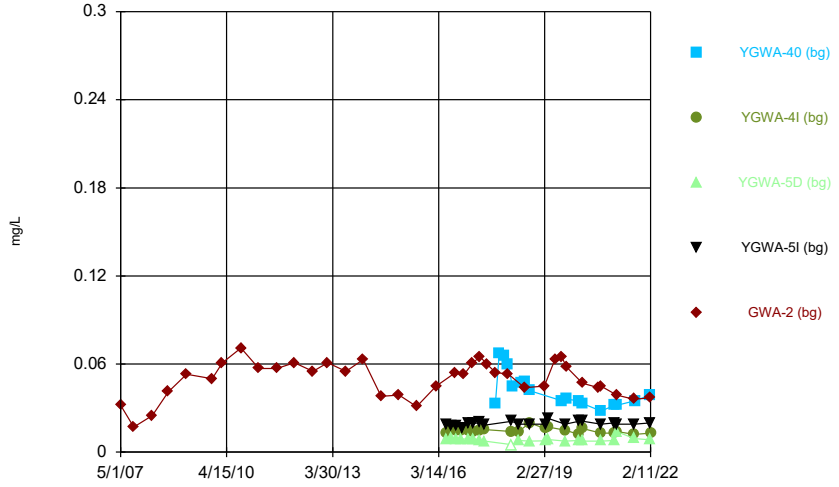

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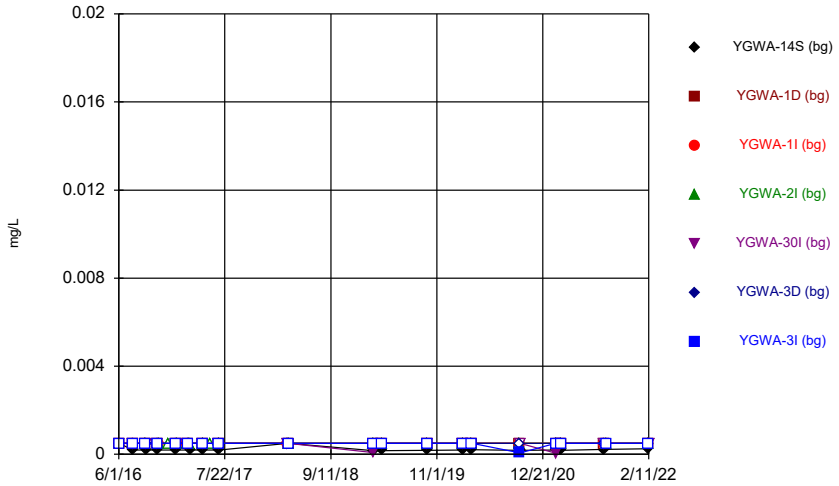

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Hollow symbols indicate censored values.

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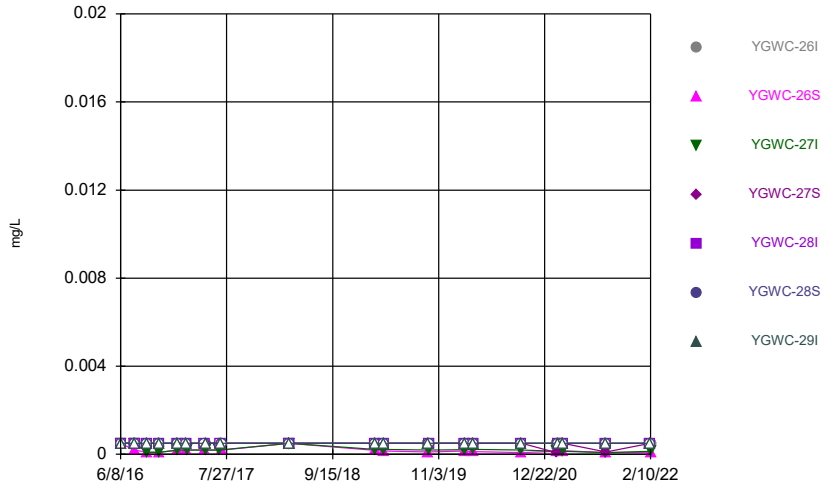

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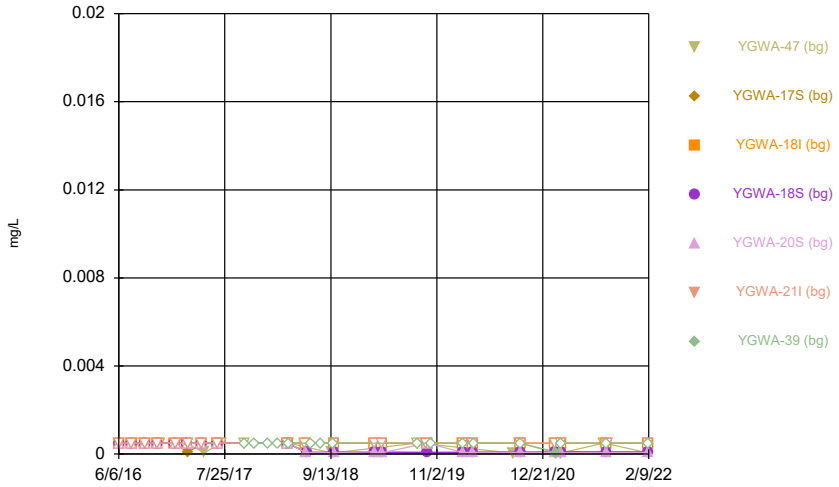

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Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
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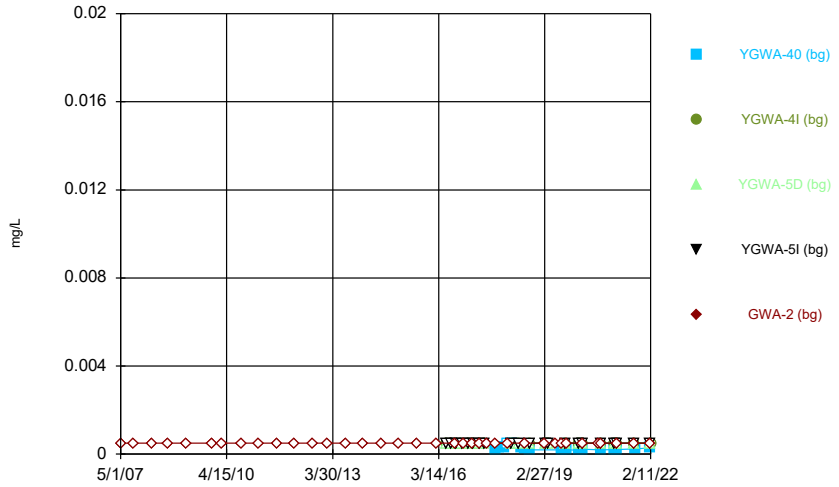

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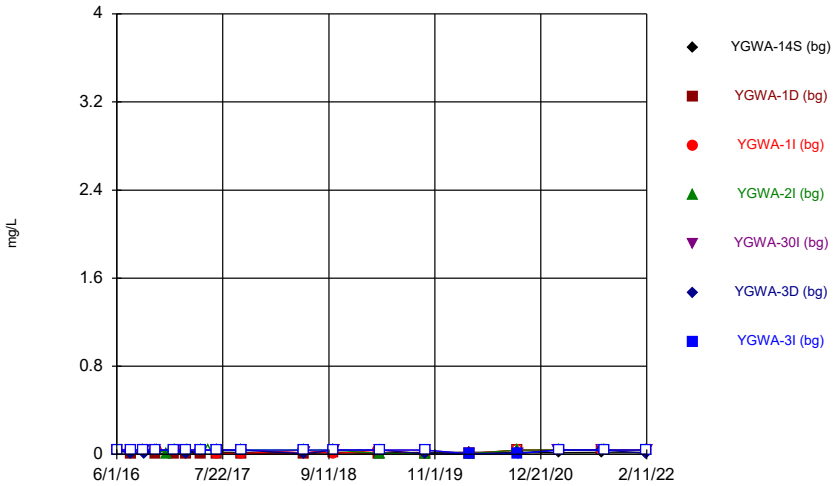
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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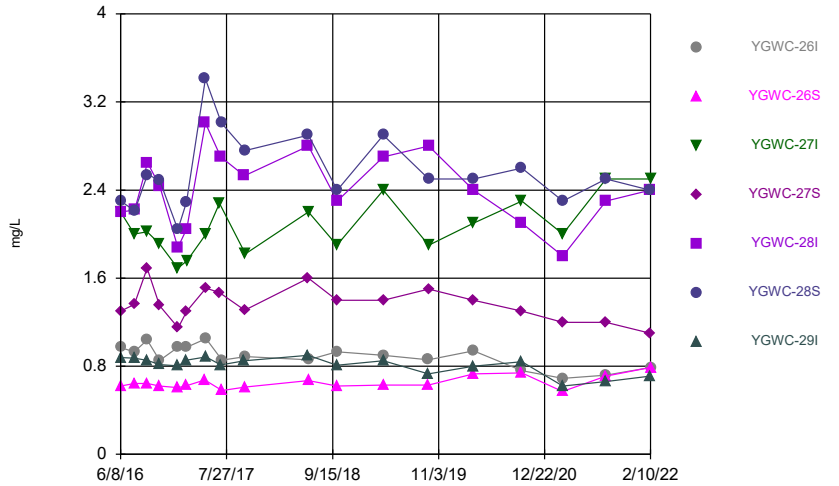
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series



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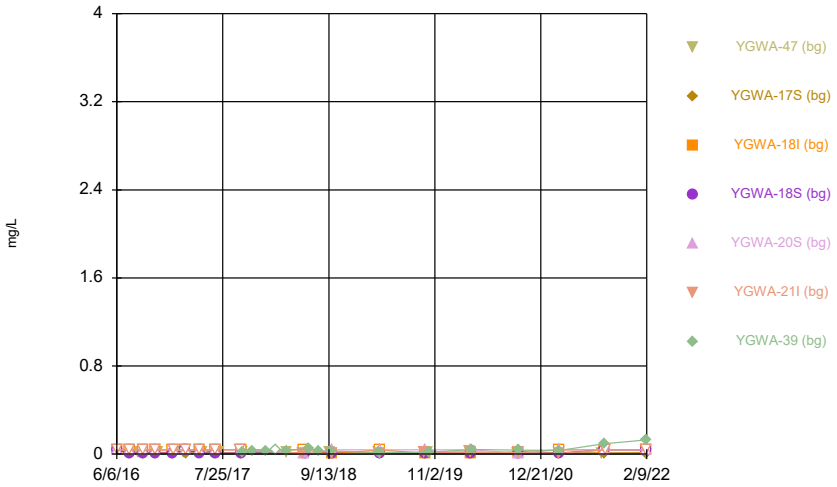
Hollow symbols indicate censored values.

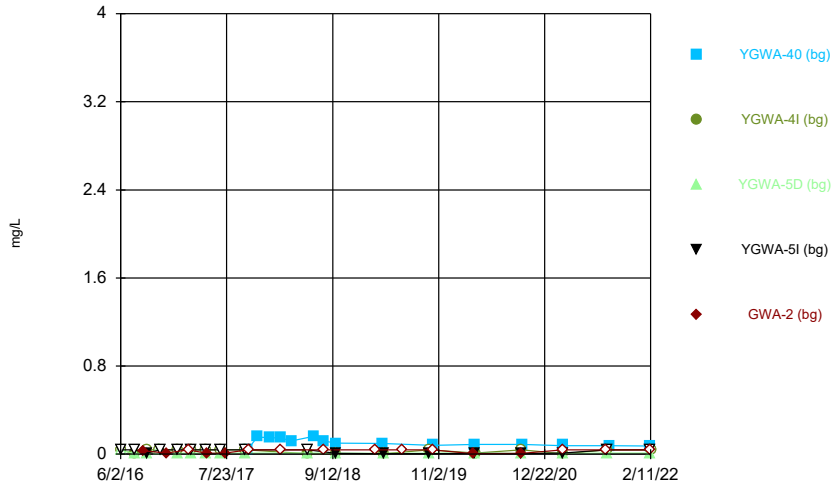
Time Series



Constituent: Boron Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

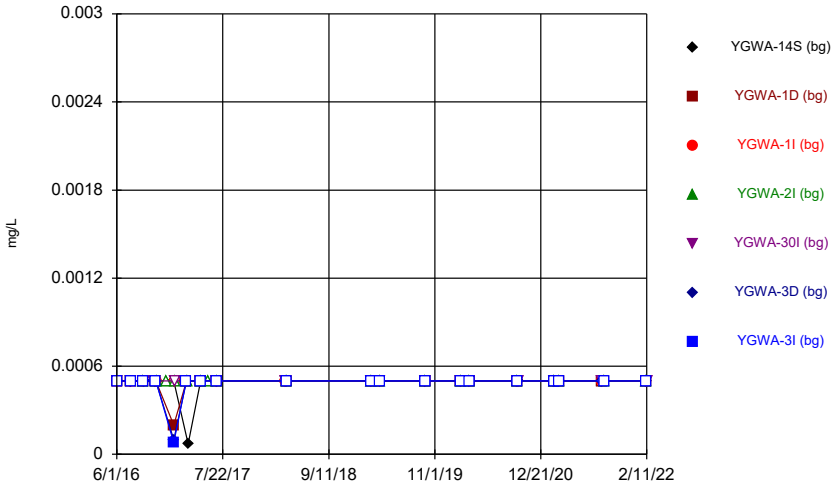
Time Series



Constituent: Boron Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

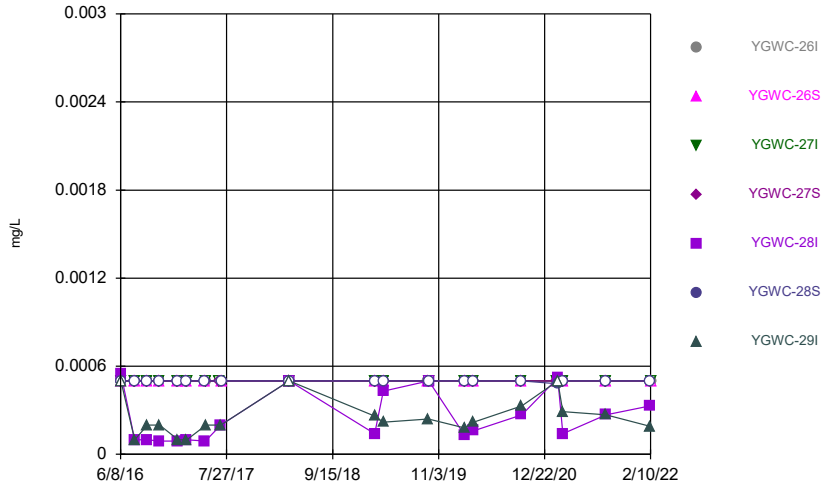
Time Series



Constituent: Cadmium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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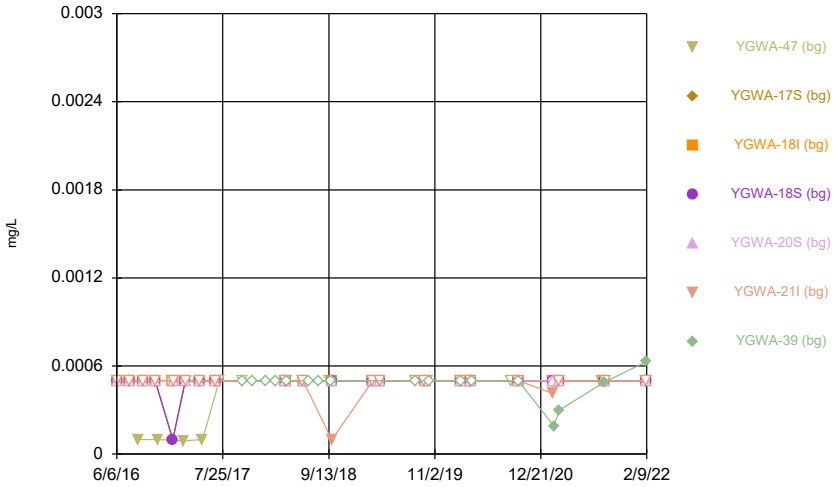
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

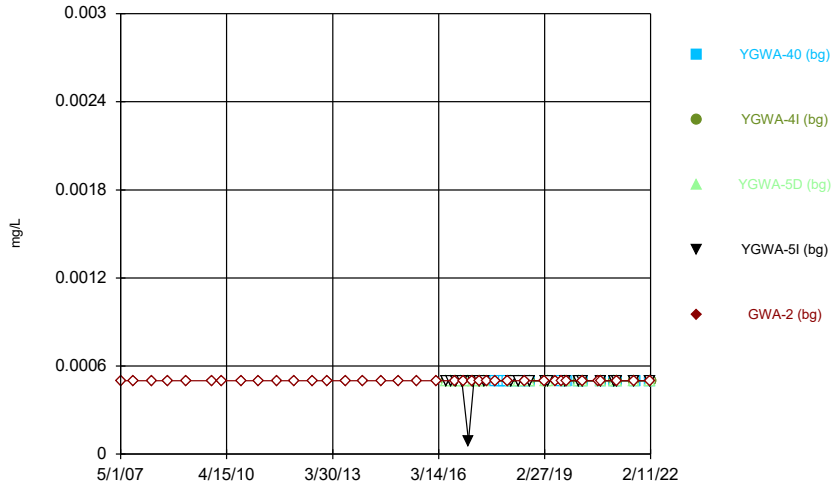
Time Series



Constituent: Cadmium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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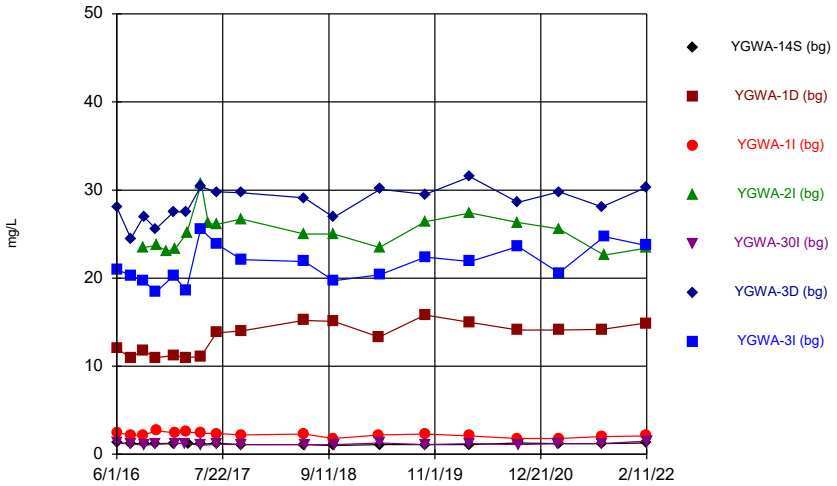
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

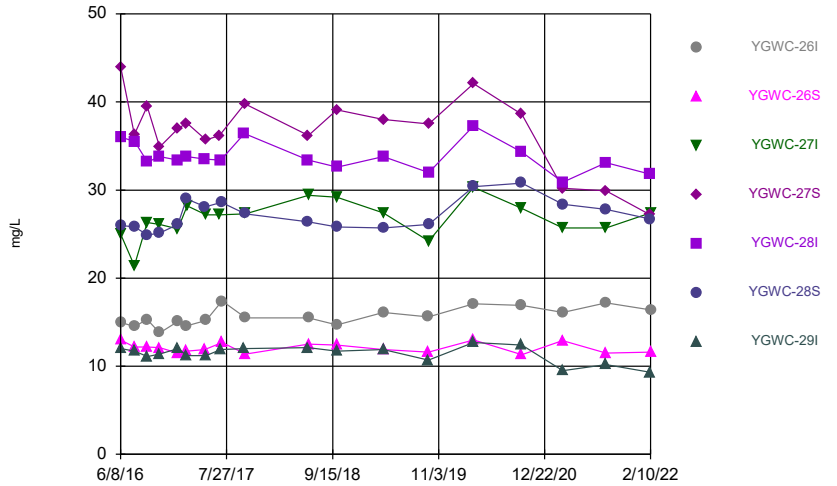


Constituent: Calcium Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

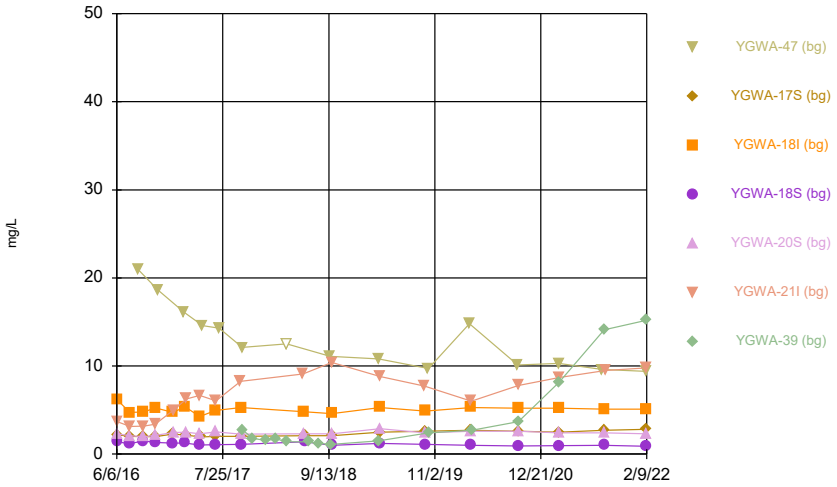


Constituent: Calcium Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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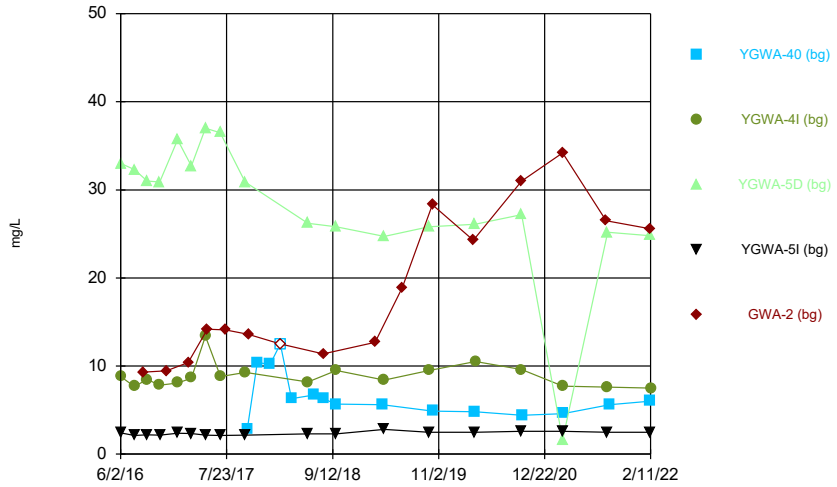
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

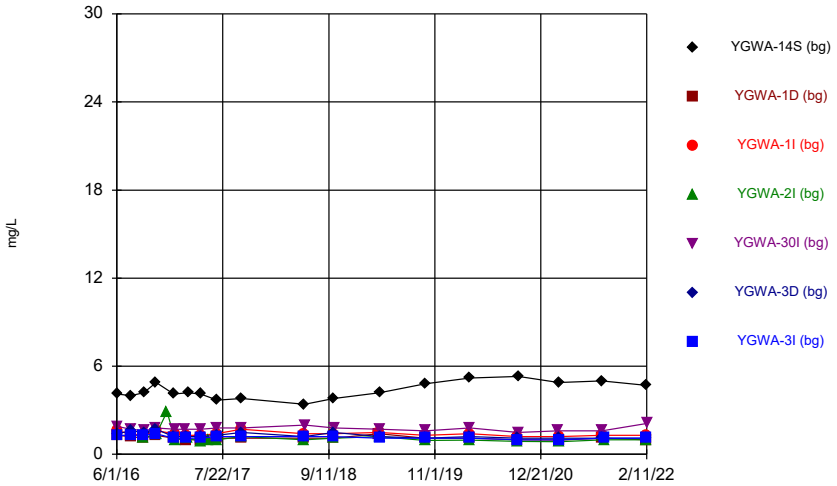


Constituent: Calcium Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

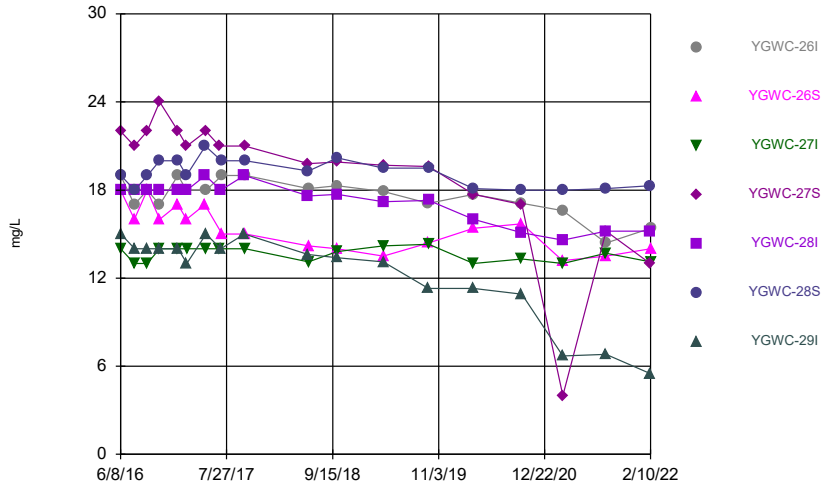


Constituent: Chloride Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

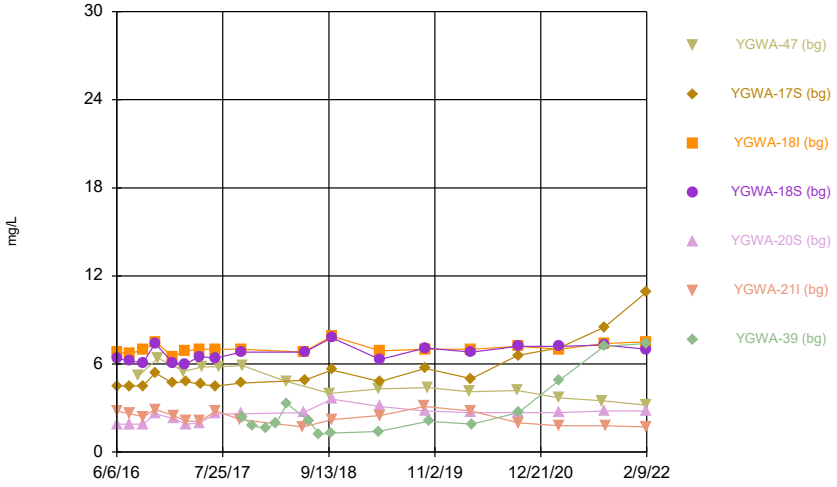


Constituent: Chloride Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series



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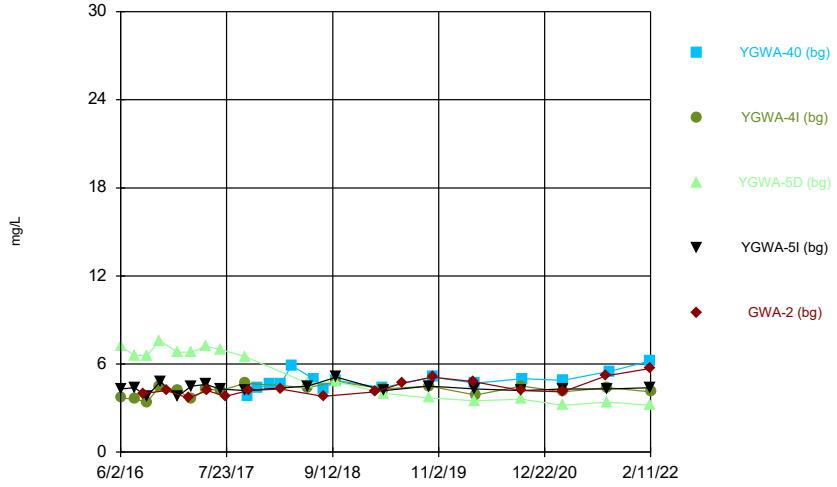
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

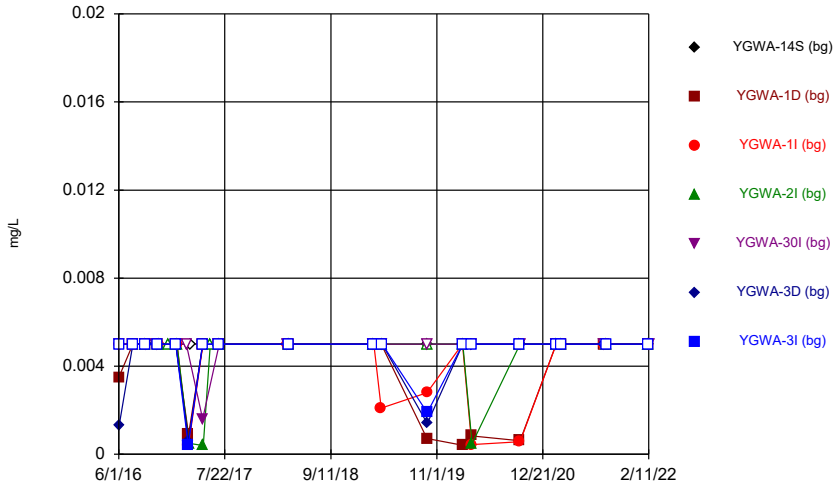


Constituent: Chloride Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

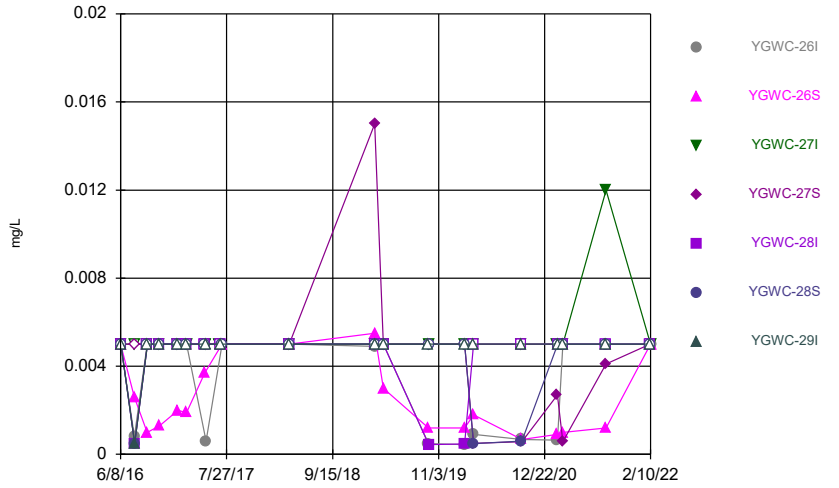
Time Series



Constituent: Chromium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

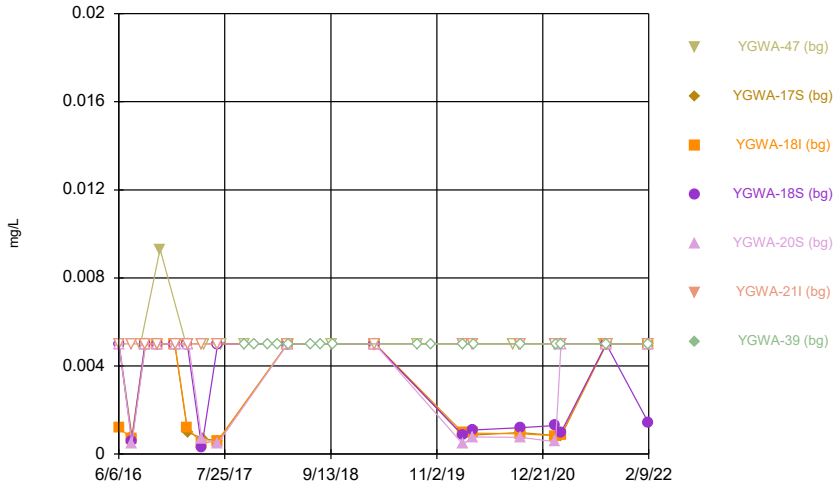
Time Series



Constituent: Chromium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 4/27/2022 1:22 PM
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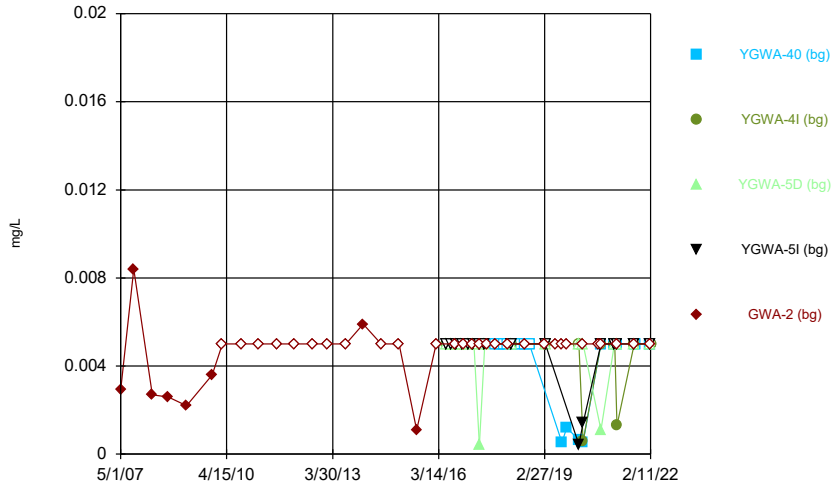
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

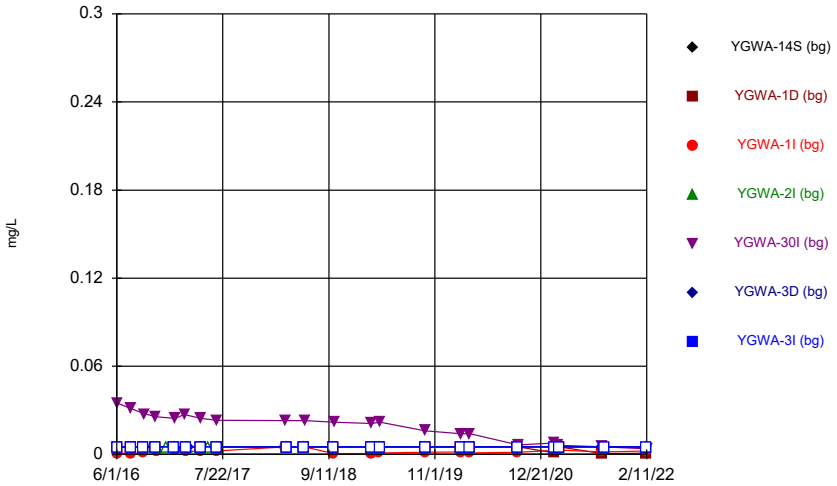
Time Series



Constituent: Chromium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

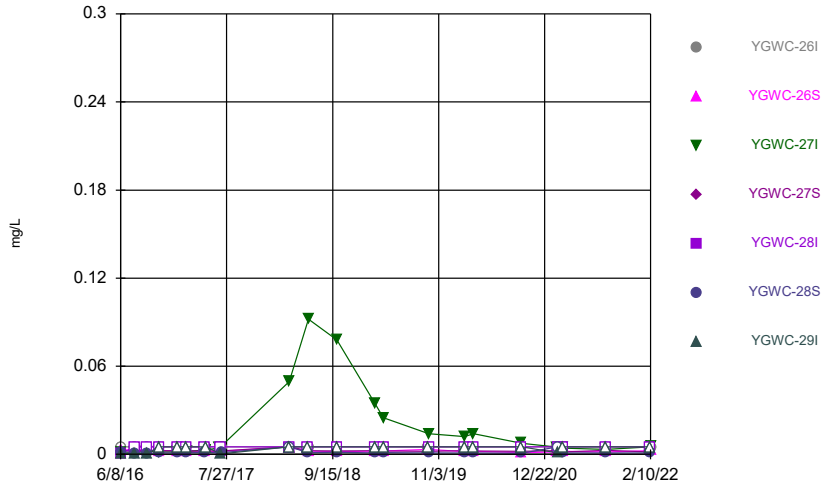
Time Series



Constituent: Cobalt Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

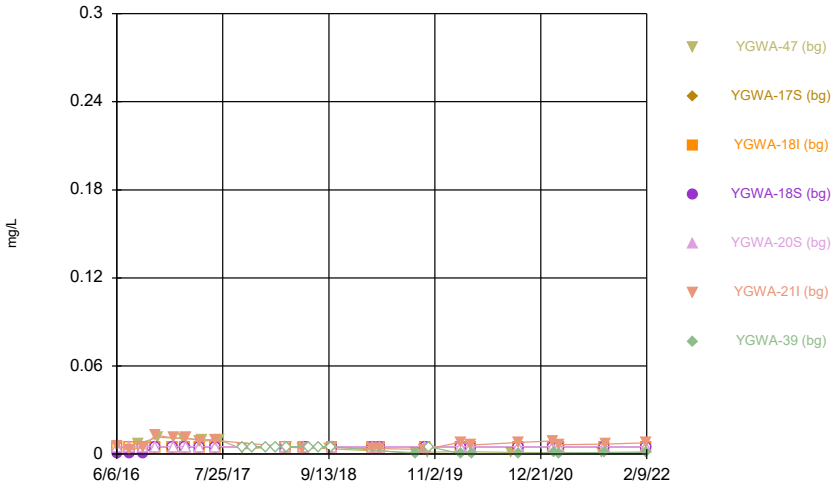
Time Series



Constituent: Cobalt Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 4/27/2022 1:22 PM
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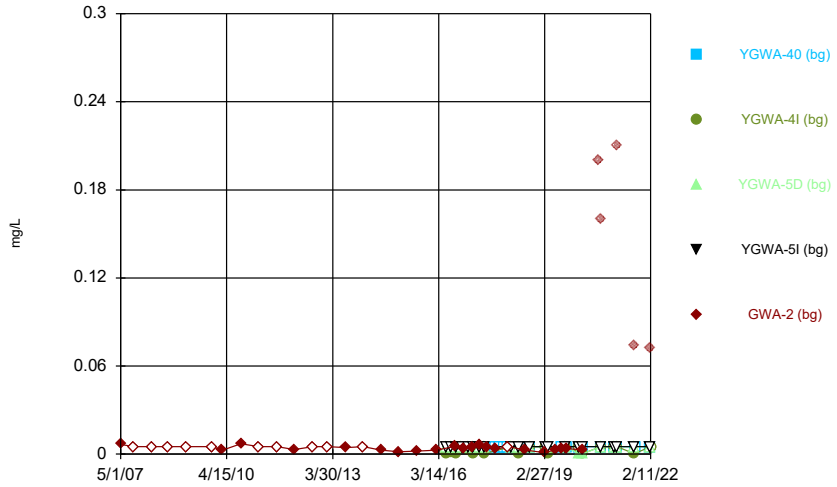
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

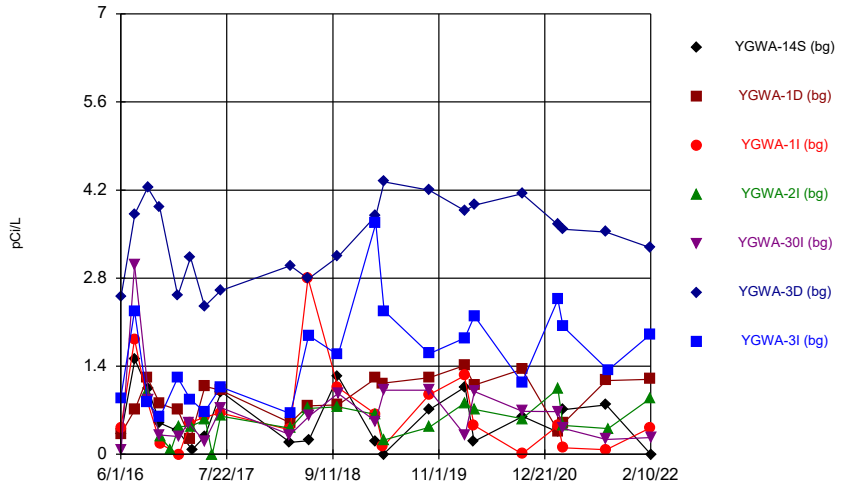
Time Series



Constituent: Cobalt Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series



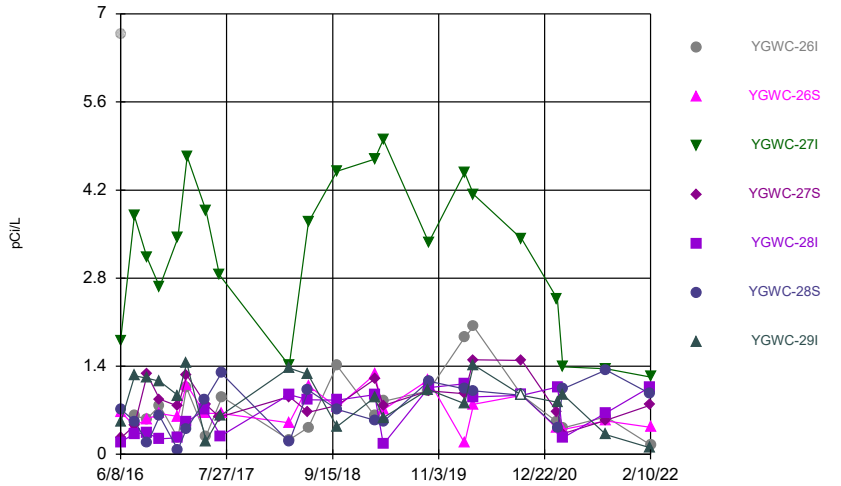
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

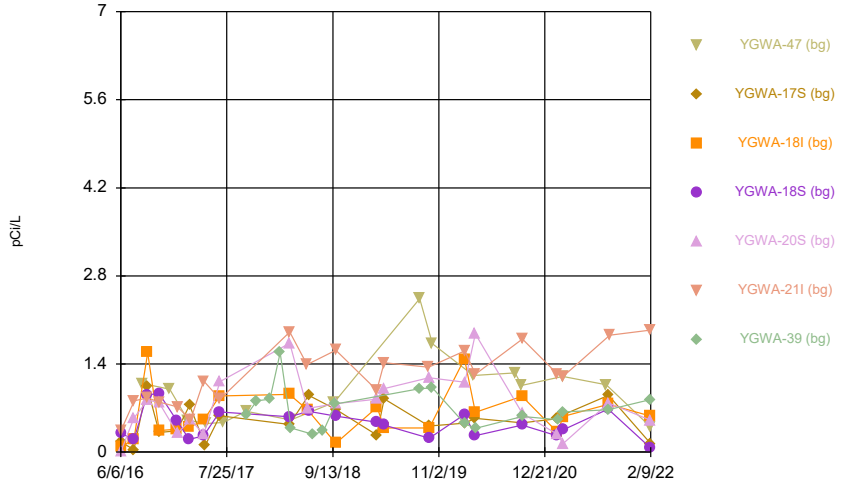


Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

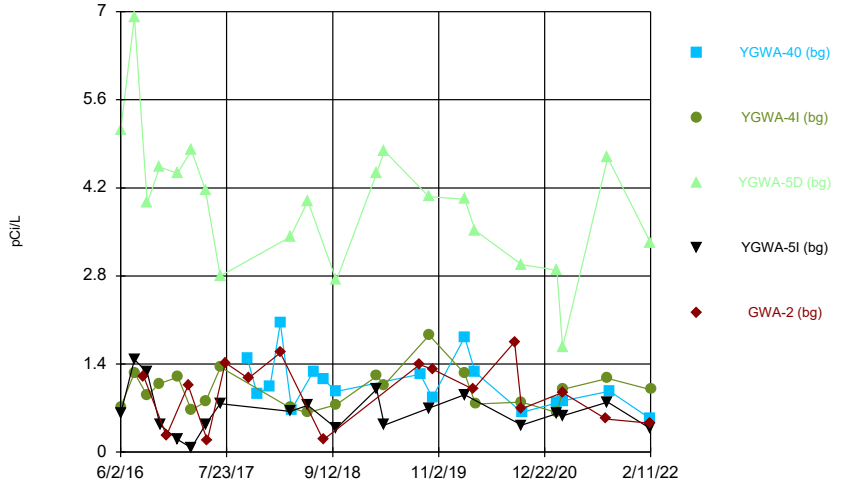


Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

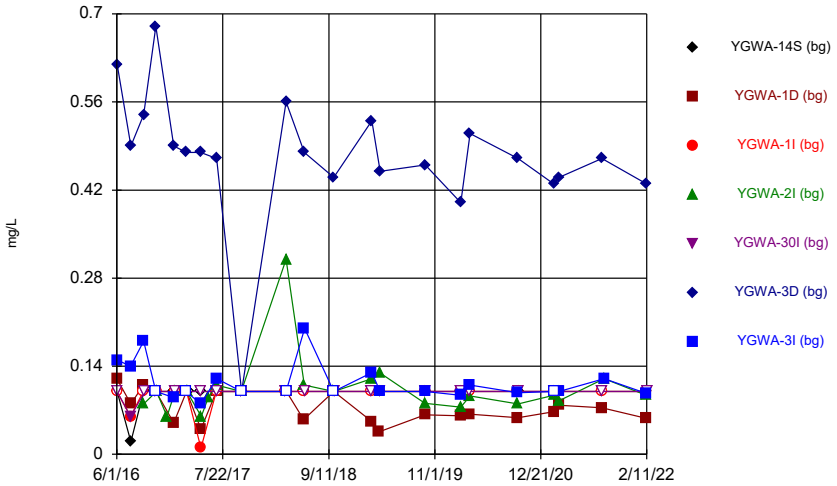


Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

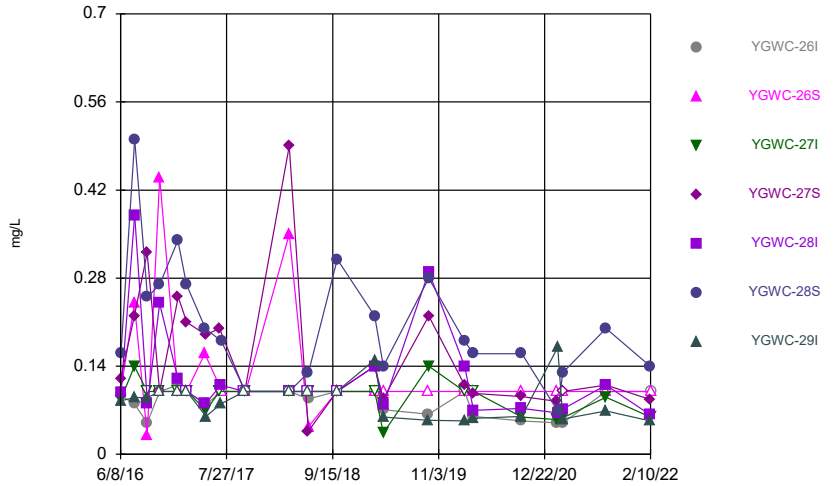
Time Series



Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

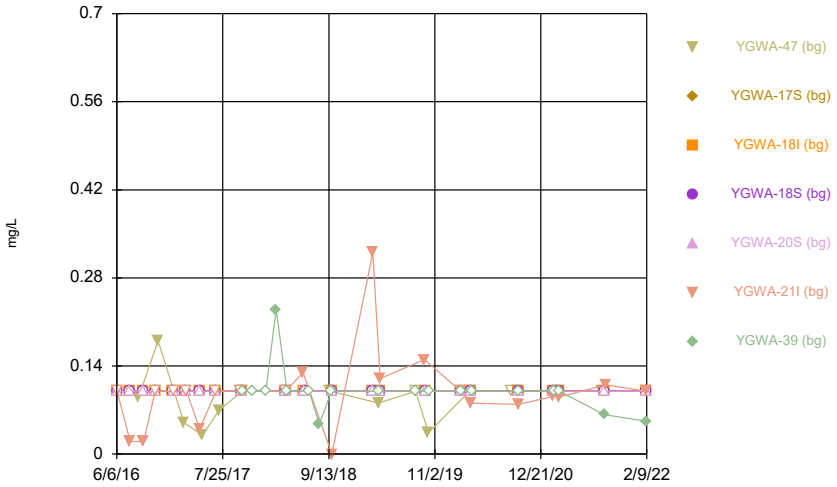
Time Series



Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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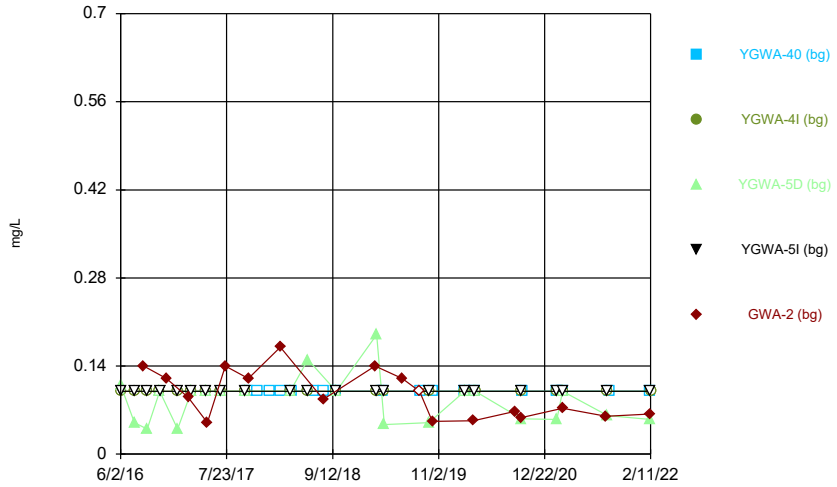
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

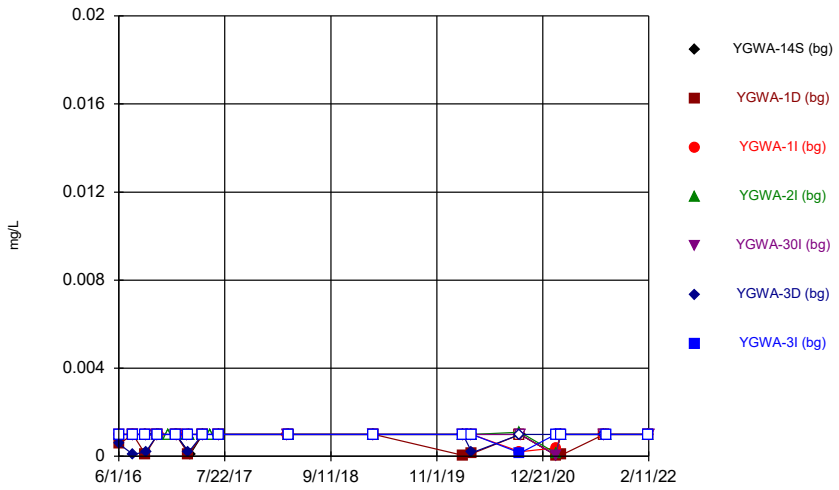
Time Series



Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

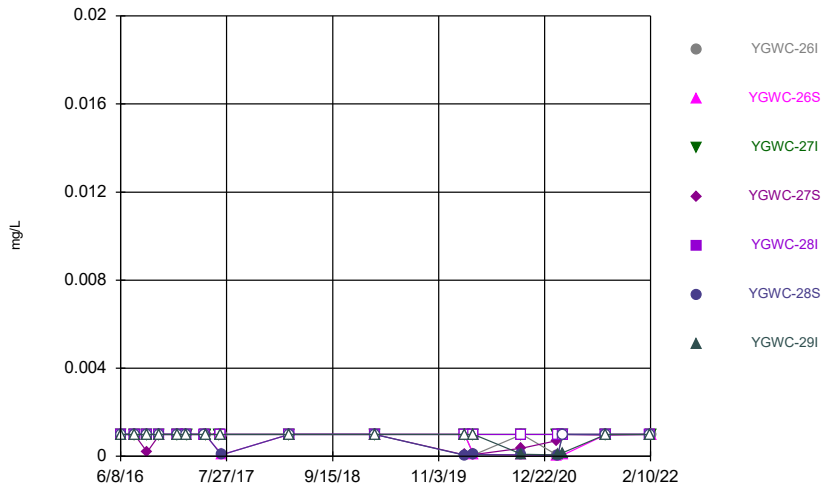
Time Series



Constituent: Lead Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

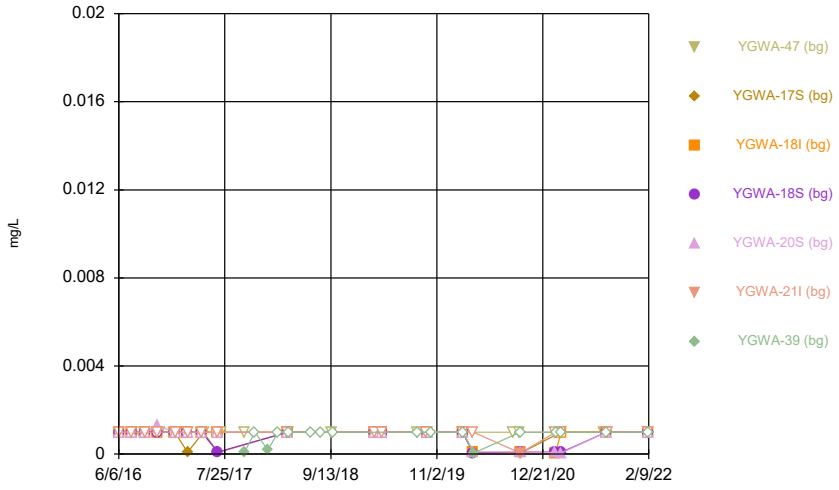
Time Series



Constituent: Lead Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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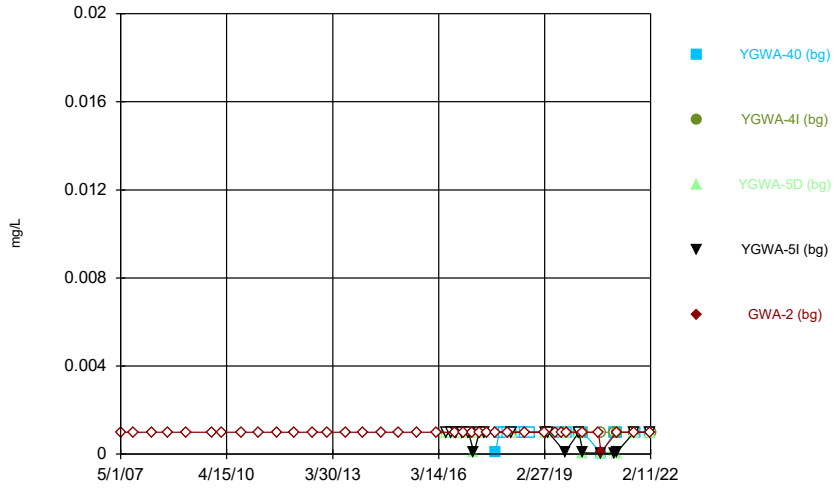
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

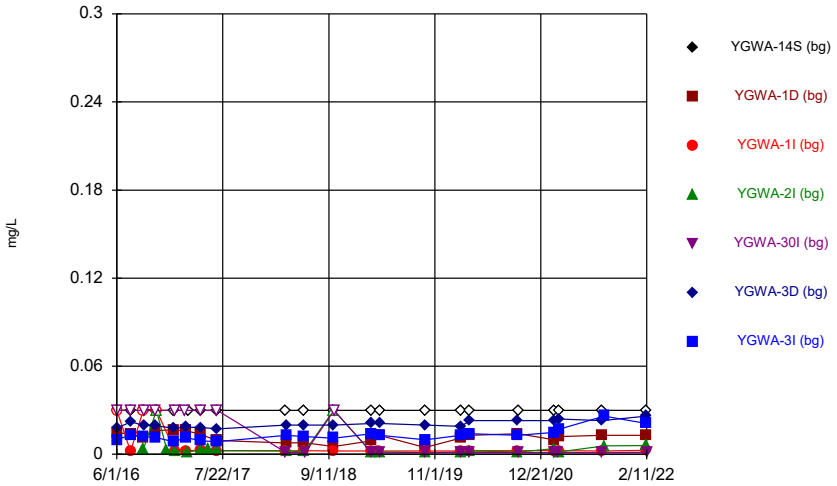
Time Series



Constituent: Lead Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

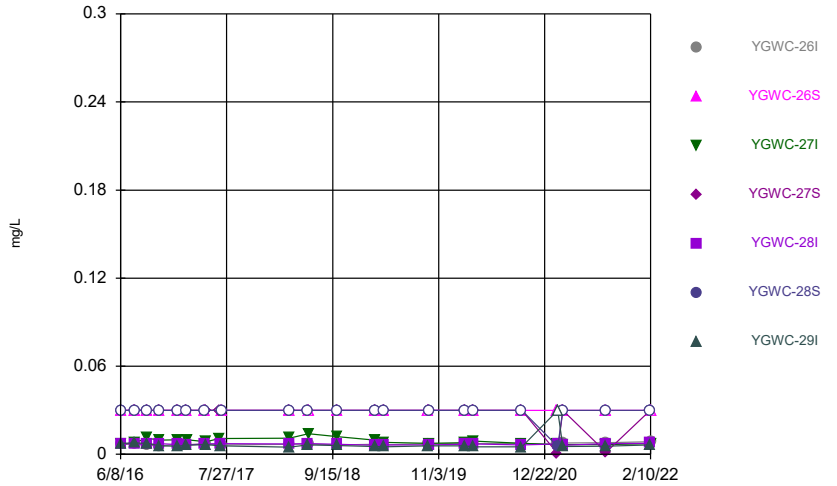
Time Series



Constituent: Lithium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 4/27/2022 1:22 PM
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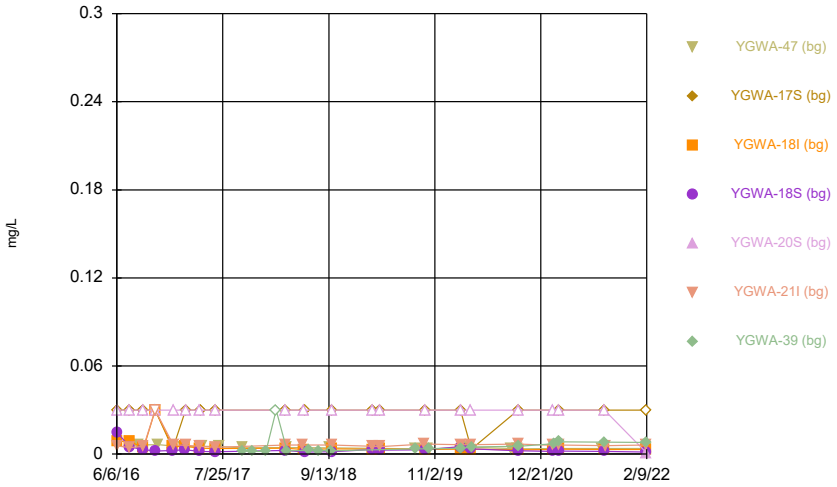
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

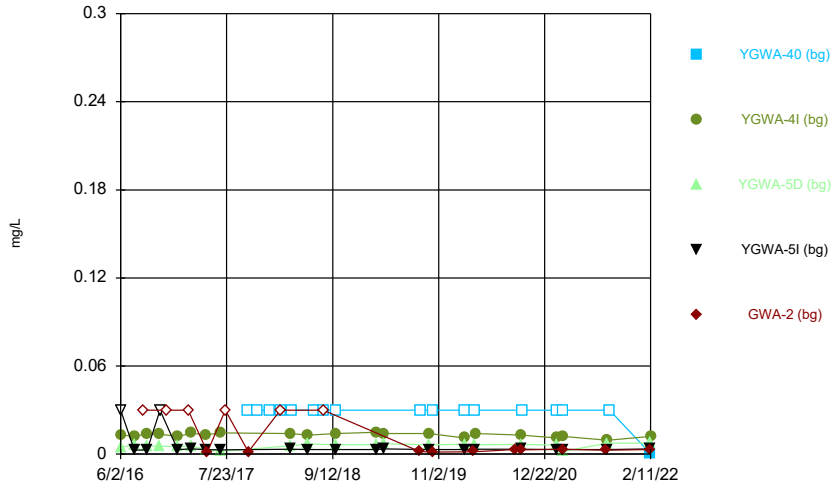
Time Series



Constituent: Lithium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

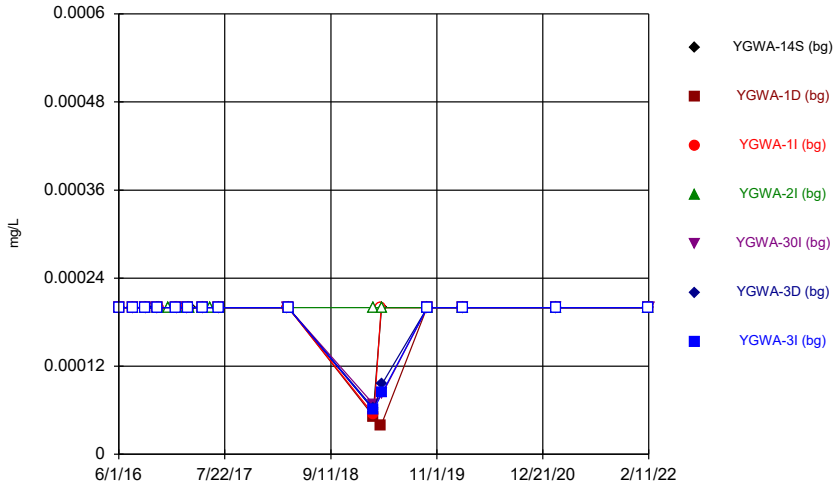
Time Series



Constituent: Lithium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

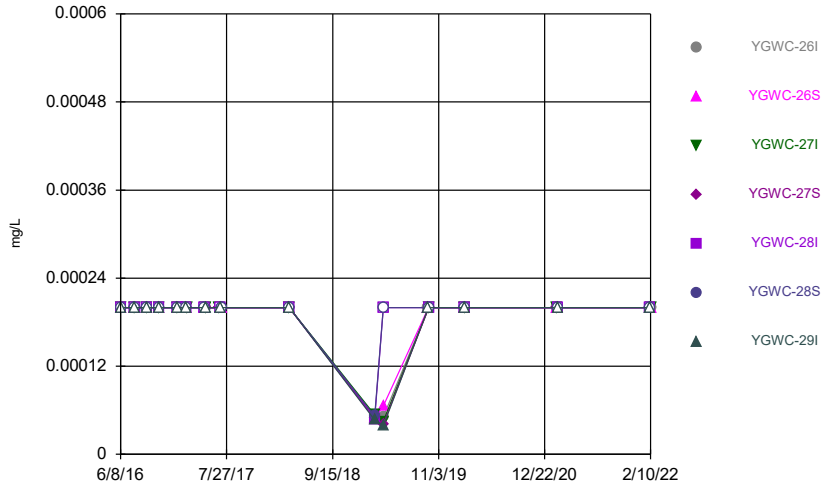
Time Series



Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

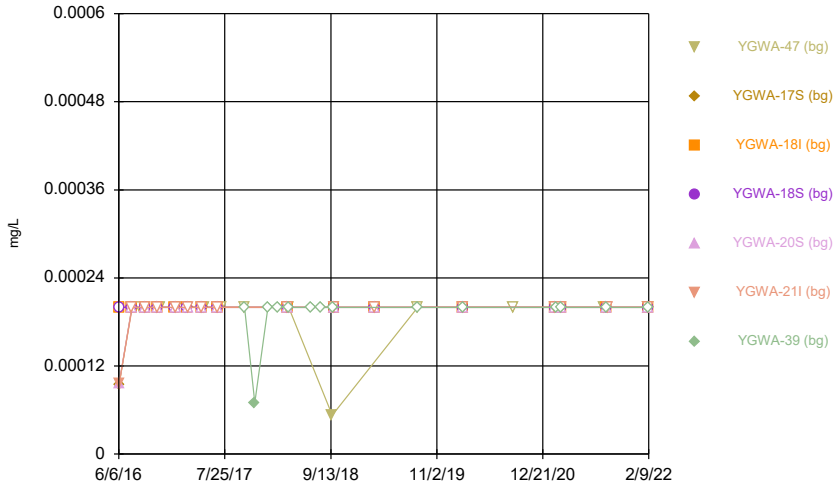
Time Series



Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

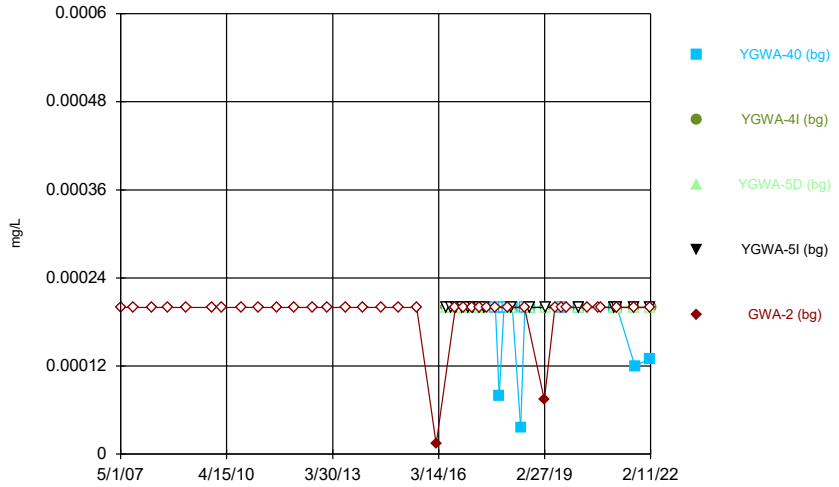
Time Series



Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

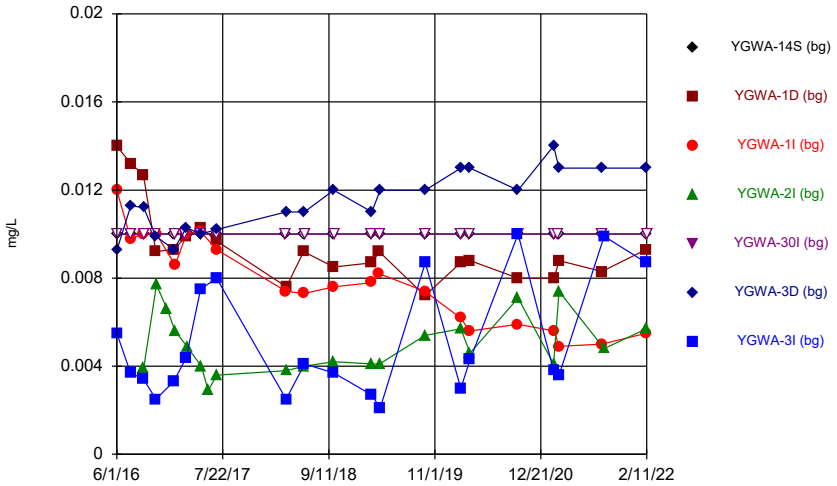
Time Series



Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

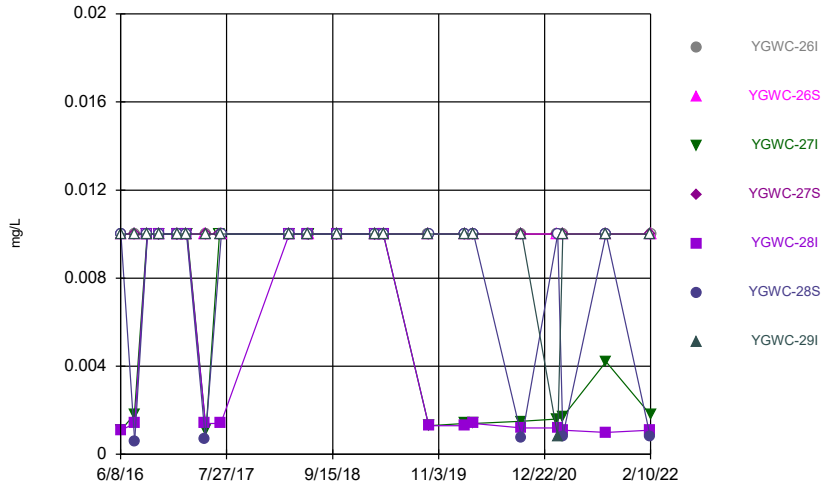
Time Series



Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

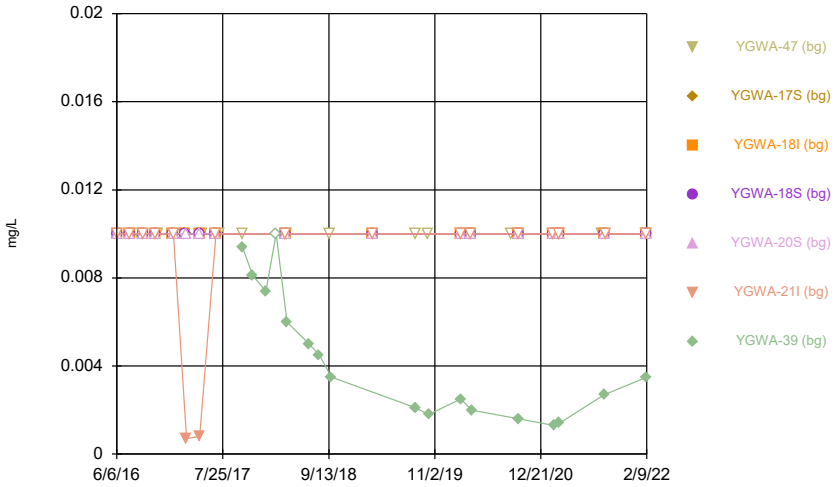
Time Series



Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

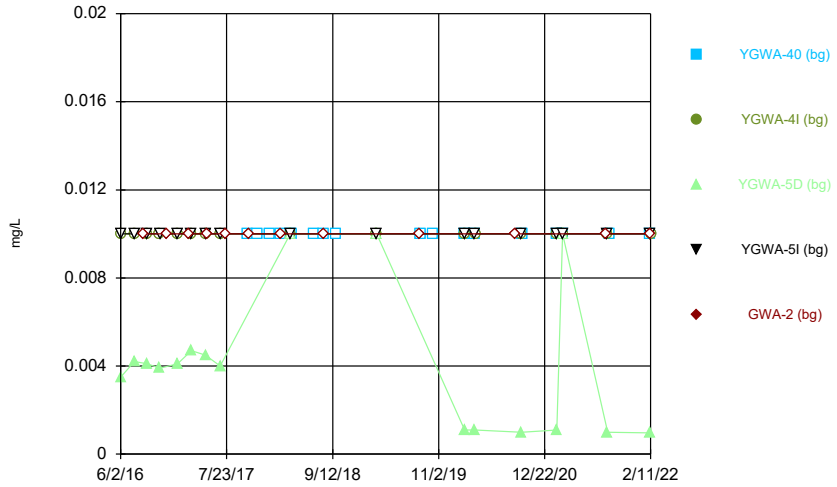
Time Series



Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

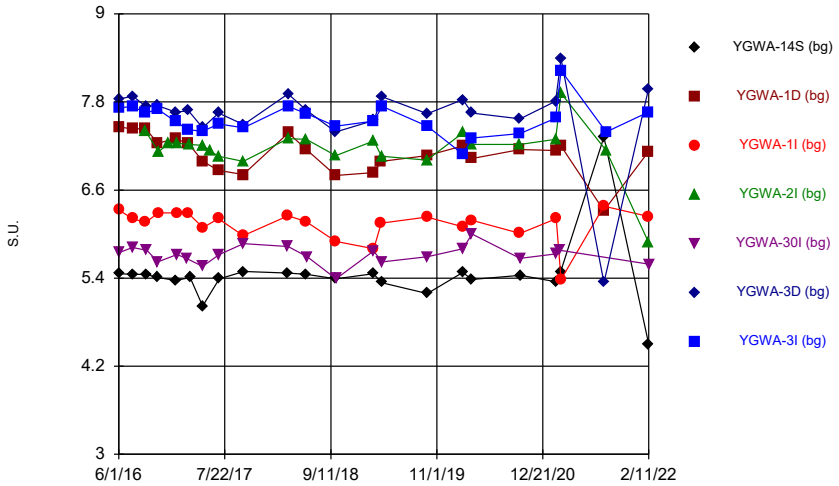
Time Series



Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

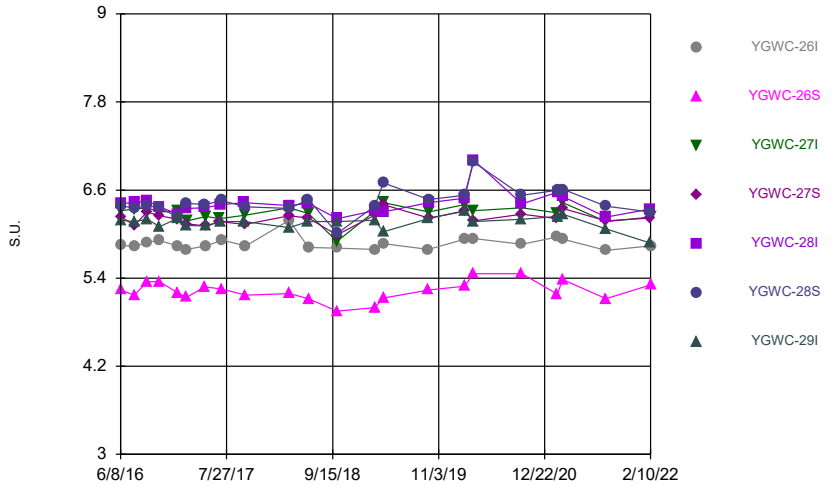


Constituent: pH Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

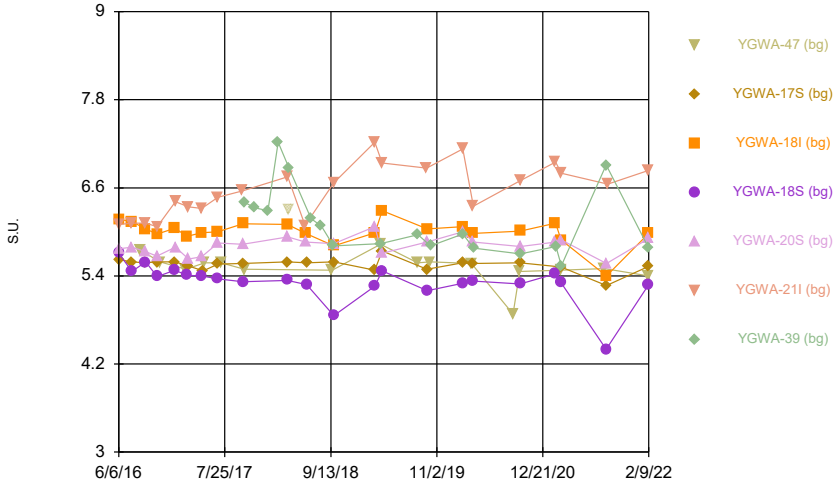


Constituent: pH Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

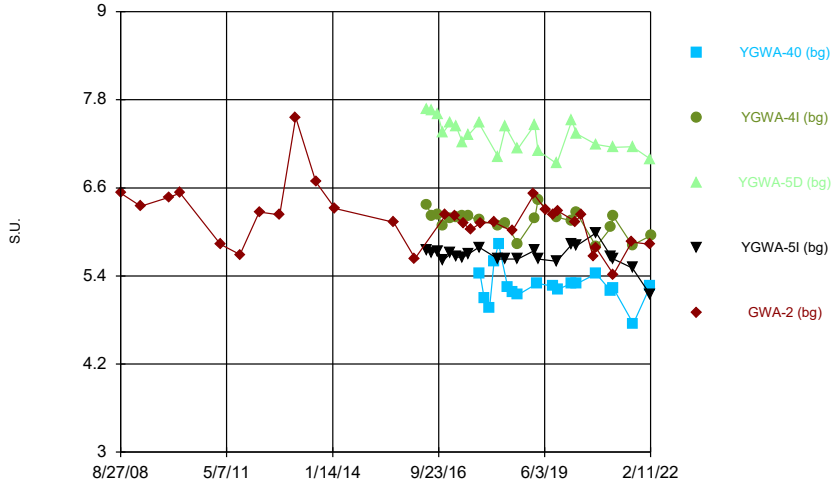


Constituent: pH Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series

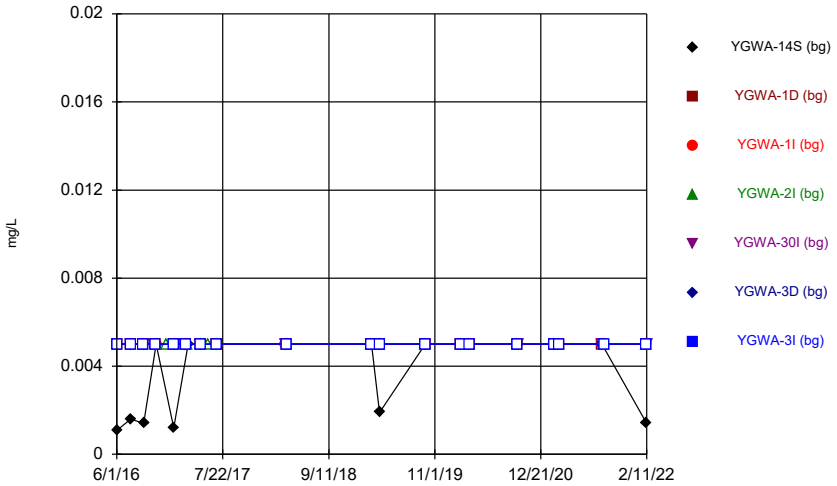


Constituent: pH Analysis Run 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

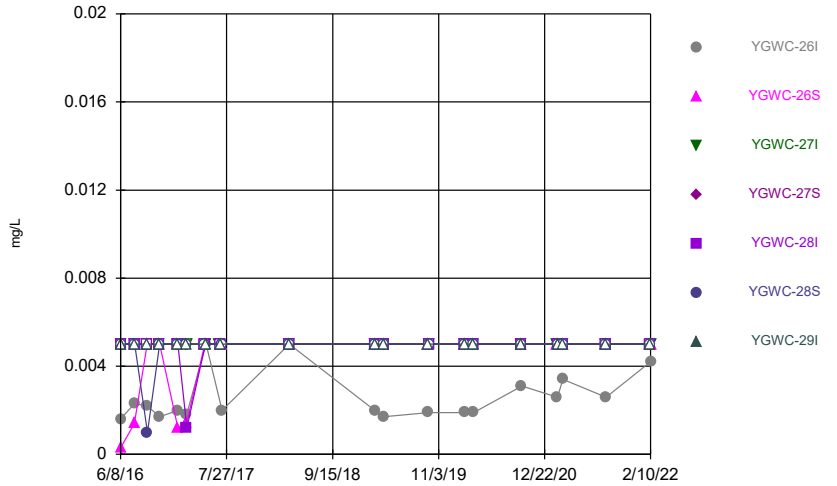
Time Series



Constituent: Selenium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

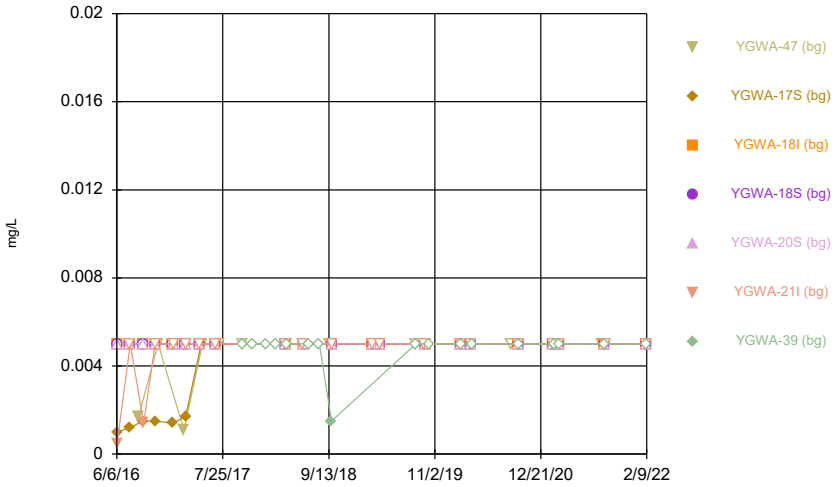
Time Series



Constituent: Selenium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

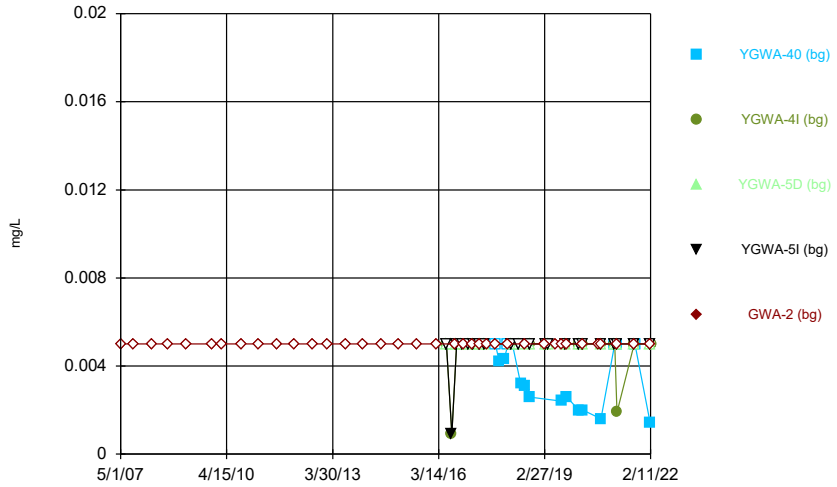
Time Series



Constituent: Selenium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

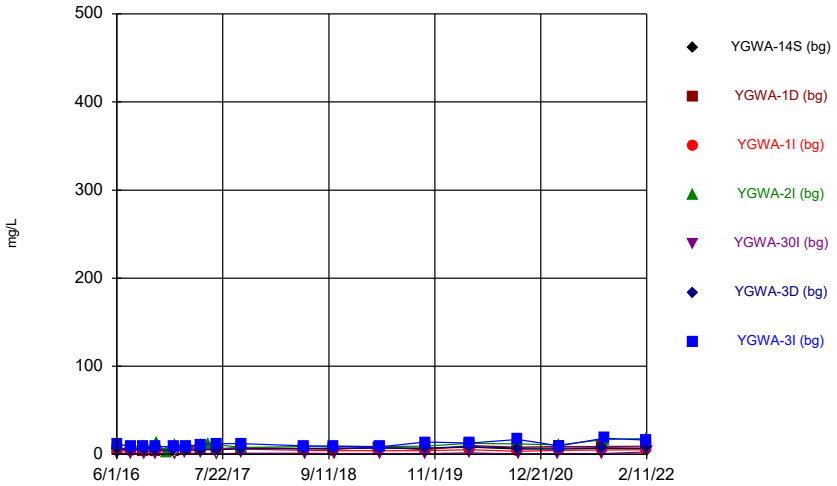
Time Series



Constituent: Selenium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

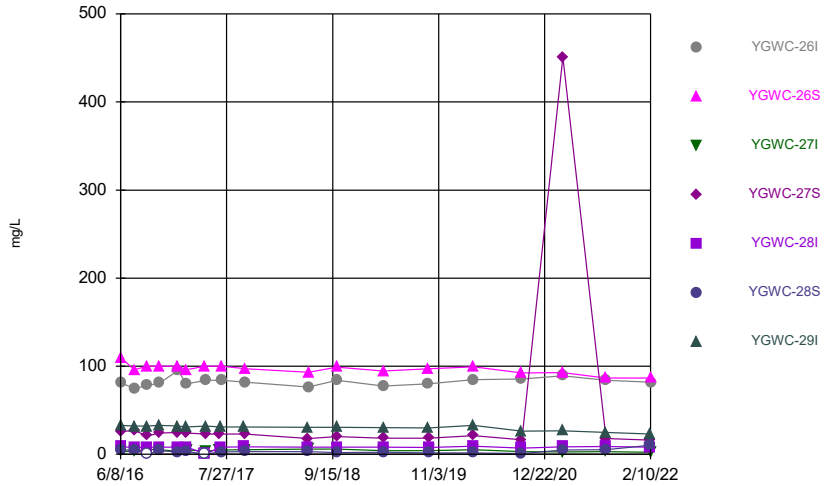
Time Series



Constituent: Sulfate Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

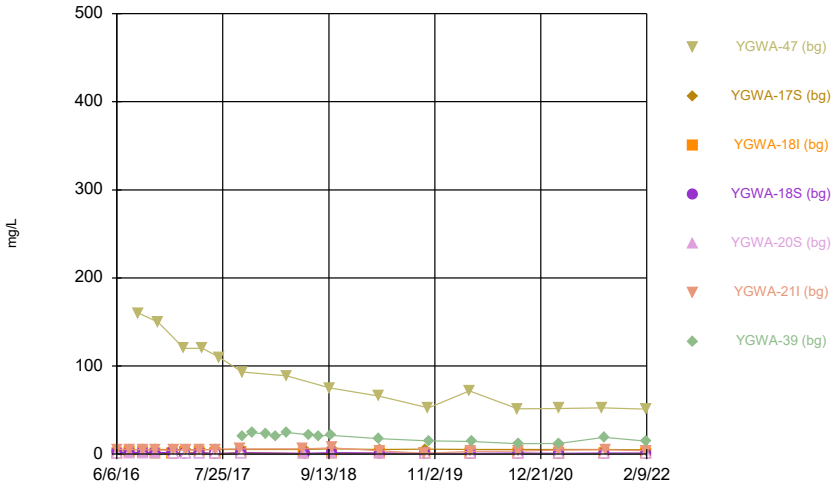
Time Series



Constituent: Sulfate Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

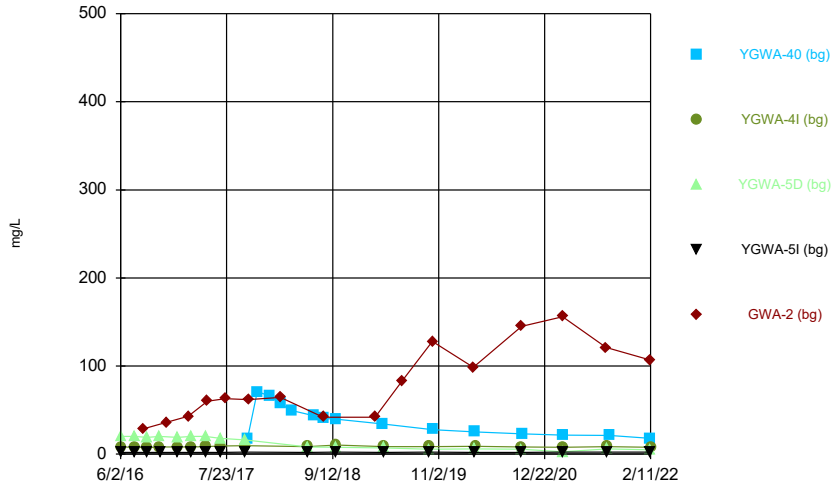
Time Series



Constituent: Sulfate Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

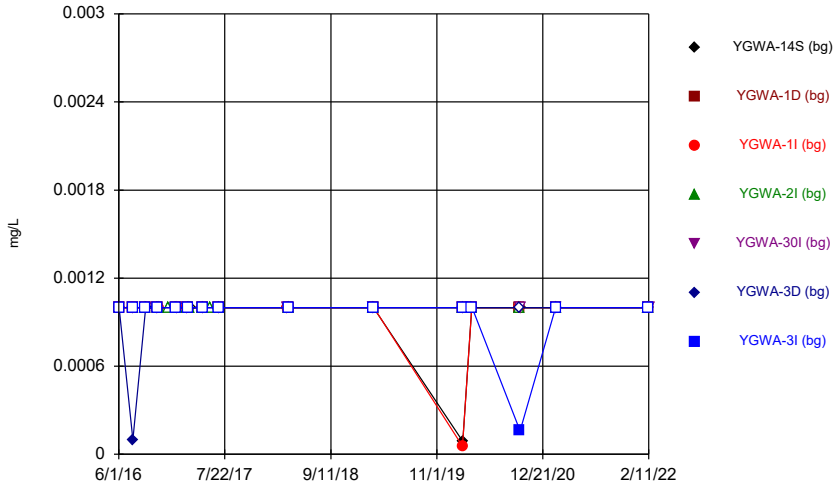
Time Series



Constituent: Sulfate Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

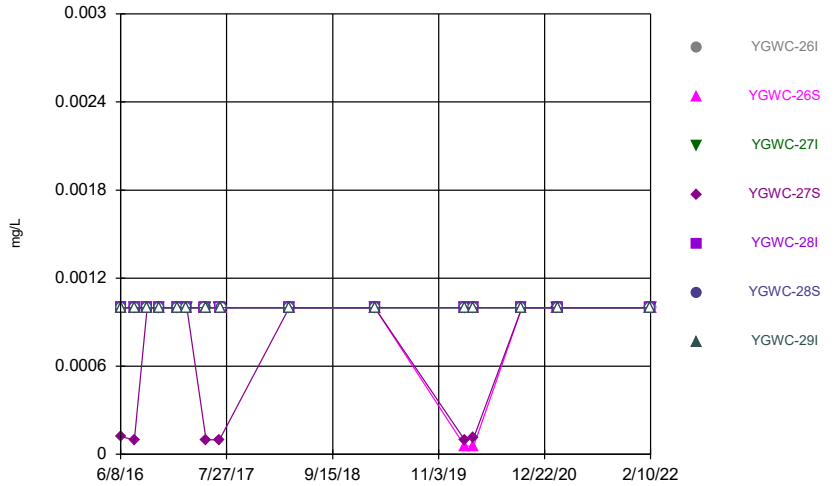
Time Series



Constituent: Thallium Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

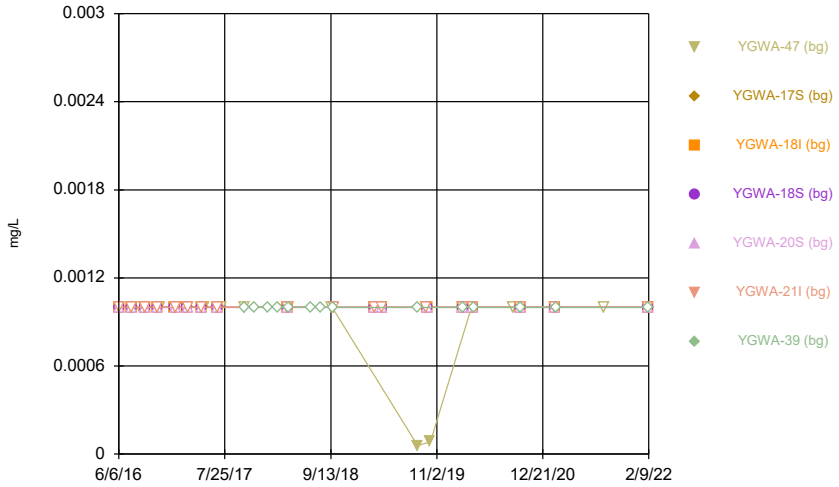
Time Series



Constituent: Thallium Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

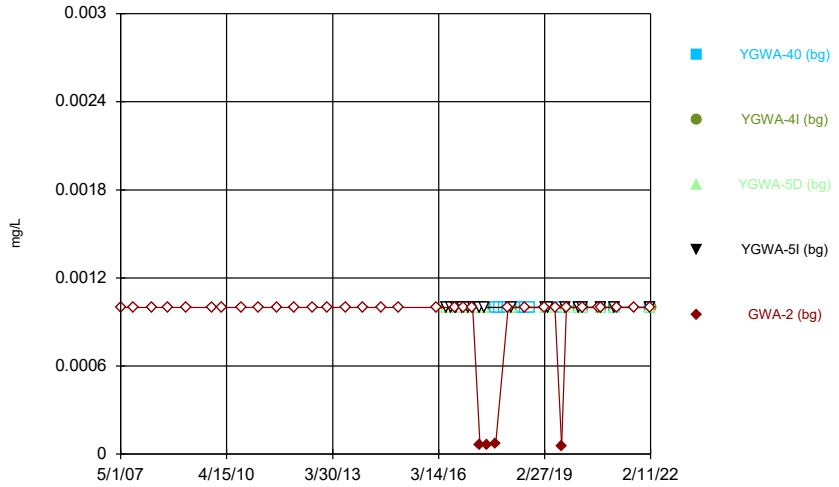
Time Series



Constituent: Thallium Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

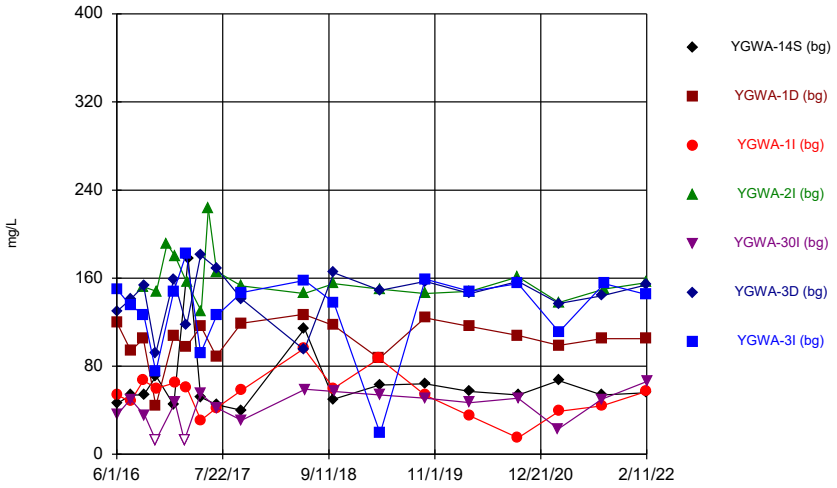
Time Series



Constituent: Thallium Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

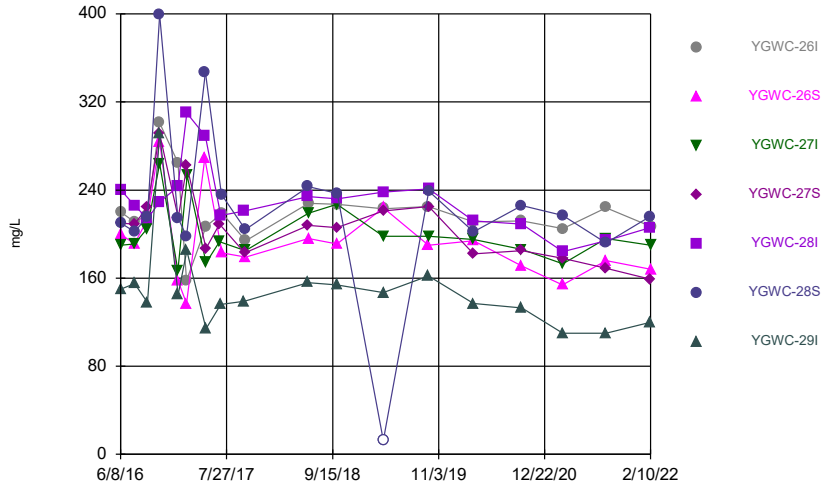
Time Series



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

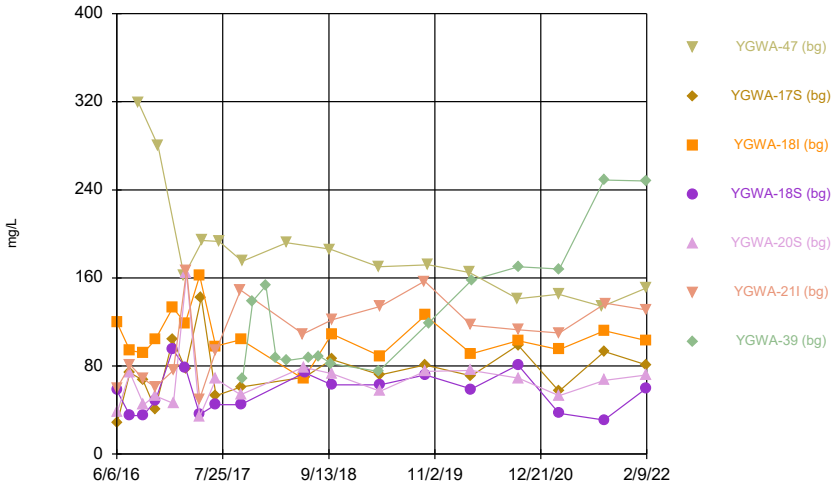
Time Series



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

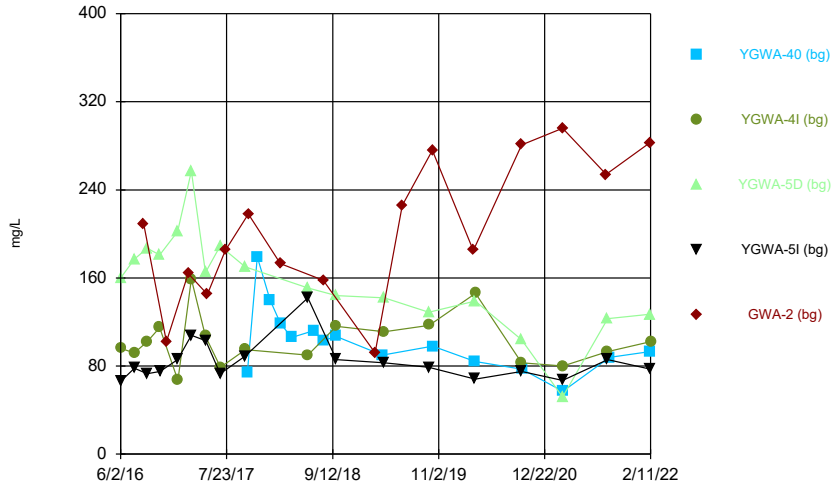
Time Series



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.003	<0.003				<0.003
6/2/2016	<0.003				<0.003	<0.003	
7/25/2016			<0.003		<0.003		<0.003
7/26/2016	0.0005 (J)	0.001 (J)				0.002 (J)	
9/13/2016		0.001 (J)	<0.003				
9/14/2016				<0.003			<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	<0.003
11/2/2016	<0.003						
11/4/2016			<0.003	<0.003			
12/15/2016				0.0012 (J)			
1/10/2017	<0.003						
1/11/2017		<0.003				<0.003	<0.003
1/16/2017			<0.003	<0.003	<0.003		
2/21/2017					<0.003		
3/1/2017							<0.003
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	<0.003
4/27/2017		0.0004 (J)	0.0017 (J)				
4/28/2017				0.0015 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		<0.003	<0.003				
6/28/2017				<0.003		<0.003	<0.003
6/30/2017	<0.003				<0.003		
3/27/2018	<0.003		<0.003		<0.003		
3/28/2018				<0.003		<0.003	<0.003
3/29/2018		<0.003					
2/26/2019	<0.003				<0.003		
2/27/2019		<0.003	<0.003	<0.003		<0.003	<0.003
2/10/2020		0.00088 (J)	<0.003				
2/11/2020				0.00036 (J)			<0.003
2/12/2020	<0.003				<0.003	<0.003	
3/18/2020	<0.003		0.0004 (J)				
3/19/2020		<0.003		0.0003 (J)	<0.003	0.00064 (J)	<0.003
9/23/2020		<0.003	<0.003	<0.003		<0.003	<0.003
9/24/2020					<0.003		
9/25/2020	<0.003						
2/10/2021	<0.003			0.0013 (J)		<0.003	<0.003
2/11/2021					<0.003		
2/12/2021		<0.003	<0.003				
3/1/2021					<0.003		
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	<0.003		<0.003	<0.003
8/19/2021	<0.003	<0.003	<0.003		<0.003	<0.003	
8/27/2021				<0.003			<0.003
2/9/2022		<0.003	<0.003	<0.003		0.0018 (J)	<0.003
2/10/2022	<0.003						
2/11/2022					<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003			
8/2/2016					<0.003	<0.003	<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003			
9/21/2016					<0.003	<0.003	<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
11/8/2016					<0.003		
1/18/2017	<0.003	<0.003	<0.003		<0.003	<0.003	
1/19/2017				<0.003			<0.003
2/21/2017	<0.003	<0.003				<0.003	
2/22/2017				<0.003	<0.003		<0.003
2/23/2017			<0.003				
5/3/2017		<0.003					
5/5/2017					<0.003	<0.003	
5/8/2017	<0.003		<0.003	<0.003			<0.003
6/30/2017			<0.003	<0.003			
7/5/2017					<0.003		<0.003
7/7/2017						<0.003	
7/10/2017	<0.003	<0.003					
3/29/2018			<0.003	<0.003			<0.003
3/30/2018	<0.003	<0.003			<0.003	<0.003	
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			<0.003	<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)			<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003			
2/11/2021					<0.003		
2/12/2021						<0.003	<0.003
3/2/2021		<0.003					
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
8/19/2021		<0.003					
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.003	<0.003			
6/7/2016		<0.003			<0.003	<0.003	
7/27/2016		<0.003	0.0005 (J)	<0.003	<0.003		
7/28/2016						<0.003	
8/30/2016	0.0028 (J)						
9/16/2016		<0.003		<0.003			
9/19/2016			<0.003		<0.003	0.001 (J)	
11/2/2016					<0.003		
11/3/2016		<0.003	<0.003	<0.003		<0.003	
11/14/2016	<0.003						
1/11/2017		<0.003	<0.003	<0.003			
1/13/2017					<0.003	<0.003	
2/24/2017	<0.003						
3/1/2017			<0.003	<0.003			
3/2/2017		<0.003					
3/6/2017					<0.003	0.0005 (J)	
4/26/2017			<0.003	<0.003	<0.003	<0.003	
5/2/2017		<0.003					
5/8/2017	0.0004 (J)						
6/28/2017			<0.003	<0.003			
6/29/2017		<0.003			<0.003	<0.003	
7/11/2017	0.0006 (J)						
10/10/2017	<0.003						
10/11/2017							0.0006 (J)
11/20/2017							<0.003
1/11/2018							<0.003
2/20/2018							<0.003
3/28/2018		<0.003	<0.003	<0.003			
3/29/2018					<0.003	<0.003	
4/2/2018	<0.003						
4/3/2018							<0.003
6/28/2018							<0.003
8/7/2018							<0.003
9/19/2018	<0.003						
9/24/2018							<0.003
3/5/2019		<0.003		<0.003	<0.003	0.0011 (J)	
3/6/2019			<0.003				
4/2/2019		<0.003				0.0011 (J)	
4/3/2019			<0.003	<0.003	<0.003		
8/20/2019	<0.003						
8/21/2019							<0.003
9/24/2019						0.0035	
9/25/2019		<0.003			<0.003		
9/26/2019			0.00056 (J)	<0.003			
2/11/2020		<0.003	<0.003	<0.003			
2/12/2020					<0.003	0.0015 (J)	<0.003
3/24/2020		<0.003	<0.003	<0.003	<0.003	0.0017 (J)	
3/25/2020							0.0014 (J)
8/27/2020	0.00048 (J)						
9/22/2020	<0.003						
9/23/2020		<0.003	<0.003	<0.003			
9/24/2020					<0.003	0.0047	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/9/2021			<0.003	<0.003	0.00032 (J)	0.0013 (J)	
2/10/2021							<0.003
3/1/2021	0.00048 (J)						
3/3/2021		<0.003	<0.003	0.00067 (J)	<0.003		
3/4/2021						0.0014 (J)	<0.003
8/19/2021	<0.003						
8/26/2021				<0.003			<0.003
8/27/2021		<0.003	<0.003		<0.003		
9/1/2021						<0.003	
2/8/2022	<0.003						<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.003	<0.003	<0.003	
7/26/2016		0.0003 (J)	<0.003	<0.003	
8/31/2016					<0.003
9/14/2016		<0.003	<0.003	<0.003	
11/2/2016		<0.003	<0.003		
11/4/2016				<0.003	
11/28/2016					0.0014 (J)
1/12/2017			<0.003	<0.003	
1/13/2017		<0.003			
2/22/2017					<0.003
3/6/2017		<0.003			
3/7/2017			<0.003	<0.003	
5/1/2017		<0.003	<0.003		
5/2/2017				<0.003	
5/8/2017					<0.003
6/27/2017			<0.003	<0.003	
6/29/2017		<0.003			
7/17/2017					<0.003
10/12/2017	<0.003				
10/16/2017					<0.003
11/20/2017	<0.003				
1/10/2018	<0.003				
2/19/2018	<0.003				<0.003
3/29/2018		<0.003	<0.003	<0.003	
4/3/2018	<0.003				
6/28/2018	<0.003				
8/6/2018					<0.003
8/7/2018	<0.003				
9/24/2018	<0.003				
2/25/2019					<0.003
3/4/2019		<0.003	<0.003	<0.003	
4/3/2019		<0.003	<0.003	<0.003	
6/12/2019					<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.003
8/21/2019	<0.003				
9/24/2019			<0.003	<0.003	
9/25/2019		<0.003			
10/8/2019					<0.003
2/12/2020	<0.003	<0.003	<0.003	<0.003	
3/17/2020					<0.003
3/24/2020	<0.003		<0.003	<0.003	
3/25/2020		<0.003			
8/26/2020					0.00042 (J)
9/22/2020		<0.003	<0.003	<0.003	0.00044 (J)
9/24/2020	<0.003				
2/8/2021			<0.003	<0.003	
2/9/2021		<0.003			
2/10/2021	<0.003				
3/2/2021			<0.003	<0.003	<0.003
3/3/2021		<0.003			
3/4/2021	<0.003				
8/20/2021					<0.003
8/26/2021		<0.003	<0.003	<0.003	
9/3/2021	<0.003				
2/8/2022	<0.003				<0.003
2/10/2022			<0.003	<0.003	
2/11/2022		<0.003			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0021	<0.005				<0.005
6/2/2016	<0.005				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	0.0016 (J)				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	0.0017 (J)			
12/15/2016				0.0023 (J)			
1/10/2017	<0.005						
1/11/2017		0.0017 (J)				<0.005	<0.005
1/16/2017			<0.005	0.0018 (J)	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0014 (J)	<0.005			<0.005	
3/3/2017				0.0016 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		0.0018 (J)	<0.005				
4/28/2017				0.002 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		0.0018 (J)	<0.005				
6/28/2017				0.0016 (J)		0.0007 (J)	0.0011 (J)
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				0.0013 (J)		<0.005	<0.005
3/29/2018		0.0017 (J)					
6/5/2018		0.0013 (J)					
6/6/2018			<0.005				
6/7/2018				0.00082 (J)		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					<0.005		
10/1/2018	<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005	<0.005
10/2/2018					<0.005		
2/26/2019	<0.005				<0.005		
2/27/2019		0.0015 (J)	<0.005	0.001 (J)		<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005				
3/29/2019	<0.005			0.00063 (J)			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.0014 (J)	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		0.0026 (J)	0.0005 (J)				
2/11/2020				0.0044 (J)			0.0041 (J)
2/12/2020	<0.005				0.0032 (J)	0.0038 (J)	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005	<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		0.00094 (J)	0.00078 (J)
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	0.00098 (J)		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)	0.0018 (J)
2/10/2022	0.0016 (J)						
2/11/2022					0.0014 (J)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	<0.005			
6/7/2016		<0.005			<0.005	<0.005	
7/27/2016		<0.005	<0.005	<0.005	<0.005		
7/28/2016						<0.005	
8/30/2016	<0.005						
9/16/2016		<0.005		<0.005			
9/19/2016			<0.005		<0.005	<0.005	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		<0.005	
11/14/2016	<0.005						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<0.005						
3/1/2017			<0.005	<0.005			
3/2/2017		<0.005					
3/6/2017					<0.005	0.0017 (J)	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005					
5/8/2017	<0.005						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	<0.005	
7/11/2017	<0.005						
10/10/2017	0.0007 (J)						
10/11/2017							0.0009 (J)
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	0.00061 (J)			
3/29/2018					<0.005	0.0015 (J)	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						0.0013 (J)	
6/6/2018					<0.005		
6/7/2018			0.00066 (J)				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	0.00072 (J)						
9/24/2018							<0.005
9/25/2018		<0.005	<0.005	<0.005	<0.005	0.0022 (J)	
3/5/2019		<0.005		<0.005	<0.005	0.0013 (J)	
3/6/2019			<0.005				
4/2/2019		<0.005				0.00096 (J)	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	<0.005						
8/21/2019							0.00058 (J)
9/24/2019						0.0026 (J)	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/8/2019	<0.005						
10/9/2019							0.00063 (J)
2/11/2020		0.0022 (J)	0.0014 (J)	0.0026 (J)			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0025 (J)	0.00058 (J)
3/17/2020	<0.005						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0013 (J)	
3/25/2020							0.0012 (J)
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0014 (J)	<0.005
2/9/2021			<0.005	<0.005	<0.005	0.001 (J)	
2/10/2021							<0.005
3/1/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						0.00078 (J)	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	0.0027 (J)						0.0034 (J)
2/9/2022		0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)	0.0036 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.005	0.00071 (J)	<0.005	
7/26/2016		<0.005	0.001 (J)	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
3/6/2017		<0.005			
3/7/2017			0.0012 (J)	<0.005	
5/1/2017		<0.005	<0.005		
5/2/2017				<0.005	
5/8/2017					<0.005
6/27/2017			0.0019 (J)	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	0.0006 (J)	<0.005	
4/3/2018	<0.005				
6/6/2018			0.0013 (J)		
6/7/2018		0.00059 (J)		<0.005	
6/28/2018	<0.005				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
9/26/2018		<0.005	0.0014 (J)	<0.005	
2/25/2019					<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					0.00038 (J)
8/19/2019					0.00095 (J)
8/21/2019	<0.005				
9/24/2019			0.00043 (J)	<0.005	
9/25/2019		<0.005			
10/8/2019					<0.005
10/9/2019	<0.005				
2/12/2020	0.0034 (J)	<0.005	0.0046 (J)	0.002 (J)	
3/17/2020					<0.005
3/24/2020	<0.005		0.00065 (J)	<0.005	
3/25/2020		<0.005			
8/26/2020					<0.005
9/22/2020		<0.005	0.001 (J)	<0.005	<0.005
9/24/2020	<0.005				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		<0.005			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	0.0016 (J)	<0.005	
9/3/2021	<0.005				
2/8/2022	0.003 (J)				0.0033 (J)
2/10/2022			0.004 (J)	0.0016 (J)	
2/11/2022		0.0014 (J)			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.008	0.012				0.0038
6/2/2016	0.0081				0.0064	0.01	
7/25/2016			0.0091 (J)		0.0071 (J)		0.0031 (J)
7/26/2016	0.0082 (J)	0.006 (J)				0.0088 (J)	
9/13/2016		0.0084 (J)	0.008 (J)				
9/14/2016				0.0037 (J)			0.0027 (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)	0.0027 (J)
11/2/2016	0.0082 (J)						
11/4/2016			0.0067 (J)	0.0059 (J)			
12/15/2016				0.0056 (J)			
1/10/2017	0.0086 (J)						
1/11/2017		0.0069 (J)				0.0075 (J)	0.0036 (J)
1/16/2017			0.0096 (J)	0.0049 (J)	0.0071 (J)		
2/21/2017					0.0077 (J)		
3/1/2017							0.0036 (J)
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)	0.0038 (J)
4/27/2017		0.0064 (J)	0.0106				
4/28/2017				0.0039 (J)			
5/26/2017				0.0034 (J)			
6/27/2017		0.0054 (J)	0.0092 (J)				
6/28/2017				0.003 (J)		0.0071 (J)	0.004 (J)
6/30/2017	0.0081 (J)				0.0076 (J)		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
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)						0.0034 (J)
6/11/2018					0.007 (J)		
10/1/2018	0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)	0.0034 (J)
10/2/2018					0.0069 (J)		
2/26/2019	0.0067 (J)				0.007 (J)		
2/27/2019		0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)	0.0034 (J)
3/28/2019		0.0082 (J)	0.0082 (J)				
3/29/2019	0.0066 (J)			0.0039 (J)			
4/1/2019					0.0072 (J)	0.0064 (J)	0.003 (J)
9/24/2019		0.0072 (J)	0.0086 (J)	0.0038 (J)			
9/25/2019	0.0071 (J)				0.0066 (J)	0.0059 (J)	0.005 (J)
2/10/2020		0.0066 (J)	0.0091 (J)				
2/11/2020				0.0036 (J)			0.0031 (J)
2/12/2020	0.007 (J)				0.0073 (J)	0.0062 (J)	
3/18/2020	0.0076 (J)		0.0084 (J)				
3/19/2020		0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)	0.0029 (J)
9/23/2020		0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)	0.0039 (J)
9/24/2020					0.0062 (J)		
9/25/2020	0.0073 (J)						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.0078 (J)			0.0032 (J)		0.0059 (J)	0.0029 (J)
2/11/2021					0.0077 (J)		
2/12/2021		0.0057 (J)	0.009 (J)				
3/1/2021					0.007		
3/2/2021	0.0076						
3/3/2021		0.0068	0.0094	0.0041 (J)		0.0064	0.0031 (J)
8/19/2021	0.0077	0.0065	0.0079		0.0071	0.0052	
8/27/2021				0.003 (J)			0.0039 (J)
2/9/2022		0.0067	0.0088	0.0029 (J)		0.0051	0.0031 (J)
2/10/2022	0.0088						
2/11/2022					0.0077		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.028	0.019			
6/7/2016		0.012			0.014	0.0058	
7/27/2016		0.0126	0.0294	0.0167	0.0141		
7/28/2016						0.0068 (J)	
8/30/2016	0.0413						
9/16/2016		0.0127		0.0168			
9/19/2016			0.0247		0.0155	0.0071 (J)	
11/2/2016					0.0157		
11/3/2016		0.0128	0.0248	0.0159		0.0092 (J)	
11/14/2016	0.0383						
1/11/2017		0.0142	0.0266	0.0162			
1/13/2017					0.0158	0.0105	
2/24/2017	0.0351						
3/1/2017			0.0275	0.0195			
3/2/2017		0.0155					
3/6/2017					0.0163	0.0105	
4/26/2017			0.024	0.0182	0.0177	0.011	
5/2/2017		0.0138					
5/8/2017	0.0251						
6/28/2017			0.0237	0.018			
6/29/2017		0.0128			0.017	0.0109	
7/11/2017	0.0233						
10/10/2017	0.0207						
10/11/2017							0.0092 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0077 (J)
2/20/2018							<0.01
3/28/2018		0.014	0.024	0.021			
3/29/2018					0.014	<0.01	
4/2/2018	0.022						
4/3/2018							<0.01
6/5/2018						0.011	
6/6/2018					0.015		
6/7/2018			0.023				
6/11/2018		0.013		0.019			
6/28/2018							0.0078 (J)
8/7/2018							0.0078 (J)
9/19/2018	0.023						
9/24/2018							0.0071 (J)
9/25/2018		0.014	0.023	0.019	0.015	0.011	
3/5/2019		0.015		0.02	0.016	0.011	
3/6/2019			0.024				
4/2/2019		0.016				0.011	
4/3/2019			0.025	0.017	0.018		
8/20/2019	0.024						
8/21/2019							0.015
9/24/2019						0.011	
9/25/2019		0.015			0.014		
9/26/2019			0.021	0.017			
10/8/2019	0.025						
10/9/2019							0.013
2/11/2020		0.015	0.022	0.019			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					0.014	0.011	0.011
3/17/2020	0.035						
3/24/2020		0.015	0.021	0.017	0.015	0.011	
3/25/2020							0.014
8/27/2020	0.027						
9/22/2020	0.026						
9/23/2020		0.015	0.021	0.016			
9/24/2020					0.015	0.01	0.016
2/9/2021			0.023	0.017	0.015	0.011	
2/10/2021							0.027
3/1/2021	0.029						
3/3/2021		0.017	0.023	0.017	0.015		
3/4/2021						0.011	0.028
8/19/2021	0.029						
8/26/2021				0.015			0.038
8/27/2021		0.016	0.02		0.013		
9/1/2021						0.0099	
2/8/2022	0.03						0.041
2/9/2022		0.017	0.021	0.014	0.014	0.011	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		0.013	0.0084	0.019	
7/26/2016		0.0158	0.01	0.0179	
8/31/2016					0.0542
9/14/2016		0.0143	0.0085 (J)	0.0181	
11/2/2016		0.0148	0.0091 (J)		
11/4/2016				0.0165	
11/28/2016					0.0529
1/12/2017			0.0089 (J)	0.0199	
1/13/2017		0.0146			
2/22/2017					0.0607
3/6/2017		0.0141			
3/7/2017			0.009 (J)	0.0196	
5/1/2017		0.0149	0.0083 (J)		
5/2/2017				0.0202	
5/8/2017					0.065
6/27/2017			0.0074 (J)	0.0184	
6/29/2017		0.0154			
7/17/2017					0.06
10/12/2017	0.0328				
10/16/2017					0.0542
11/20/2017	0.0671				
1/10/2018	0.0656				
2/19/2018	0.0598				0.0533
3/29/2018		0.014	<0.01	0.021	
4/3/2018	0.045				
6/6/2018			0.008 (J)		
6/7/2018		0.014		0.019	
6/28/2018	0.047				
8/6/2018					0.044
8/7/2018	0.048				
9/24/2018	0.042				
9/26/2018		0.02	0.0075 (J)	0.019	
2/25/2019					0.045

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		0.016	0.0077 (J)	0.019	
4/3/2019		0.017	0.0087 (J)	0.023	
6/12/2019					0.063
8/19/2019					0.065
8/21/2019	0.035				
9/24/2019			0.0075 (J)	0.019	
9/25/2019		0.015			
10/8/2019					0.058
10/9/2019	0.036				
2/12/2020	0.035	0.012	0.0079 (J)	0.021	
3/17/2020					0.047
3/24/2020	0.033		0.0076 (J)	0.021	
3/25/2020		0.016			
8/26/2020					0.044
9/22/2020		0.013	0.0076 (J)	0.019	0.045
9/24/2020	0.028				
2/8/2021			0.0079 (J)	0.02	
2/9/2021		0.013			
2/10/2021	0.032				
3/2/2021			0.014	0.019	0.039
3/3/2021		0.014			
3/4/2021	0.032				
8/20/2021					0.036
8/26/2021		0.012	0.0092	0.019	
9/3/2021	0.035				
2/8/2022	0.039				0.037
2/10/2022			0.0084	0.02	
2/11/2022		0.013			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	0.0002 (J)	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	0.0002 (J)					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	0.0002 (J)						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	0.0002 (J)						
1/11/2017		<0.0005				<0.0005	<0.0005
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
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	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	0.0002 (J)				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	0.00016 (J)				7.2E-05 (J)		
2/27/2019		<0.0005	<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	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	0.00018 (J)				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	0.00019 (J)				<0.0005	<0.0005	
3/18/2020	0.00021 (J)		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	5.9E-05 (J)
9/24/2020					<0.0005		
9/25/2020	0.00018 (J)						
2/10/2021	0.00019 (J)			<0.0005		<0.0005	<0.0005
2/11/2021					4.7E-05 (J)		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	0.00018 (J)						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<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 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					<0.0005	<0.0005	<0.0005
8/1/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005			
8/2/2016					<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	0.0001 (J)	9E-05 (J)	<0.0005			
9/21/2016					<0.0005	<0.0005	<0.0005
11/7/2016	<0.0005	0.0001 (J)	0.0001 (J)	<0.0005		<0.0005	<0.0005
11/8/2016					<0.0005		
1/18/2017	<0.0005	0.0002 (J)	0.0002 (J)		<0.0005	<0.0005	
1/19/2017				<0.0005			<0.0005
2/21/2017	<0.0005	0.0002 (J)				<0.0005	
2/22/2017				<0.0005	<0.0005		<0.0005
2/23/2017			0.0002 (J)				
5/3/2017		0.0002 (J)					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		0.0002 (J)	<0.0005			<0.0005
6/30/2017			0.0002 (J)	<0.0005			
7/5/2017					<0.0005		<0.0005
7/7/2017						<0.0005	
7/10/2017	<0.0005	0.0002 (J)					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	<0.0005	0.00018 (J)	0.00022 (J)	<0.0005	<0.0005	<0.0005	<0.0005
4/1/2019			0.00022 (J)	<0.0005	<0.0005		<0.0005
4/2/2019	<0.0005	0.00015 (J)				<0.0005	
9/25/2019	<0.0005	0.00011 (J)					<0.0005
9/26/2019			0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	0.00015 (J)	0.00021 (J)	<0.0005	<0.0005	<0.0005	<0.0005
3/19/2020		0.00012 (J)			<0.0005	<0.0005	
3/20/2020	<0.0005		0.00023 (J)	<0.0005			<0.0005
9/24/2020	<0.0005	8.5E-05 (J)	0.00019 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2021	<0.0005	0.00013 (J)	0.00014 (J)	6.6E-05 (J)			
2/11/2021					<0.0005		
2/12/2021						<0.0005	<0.0005
3/2/2021		0.00016 (J)					
3/3/2021	<0.0005		0.00013 (J)	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021		8.2E-05 (J)					
8/20/2021	<0.0005		8.6E-05 (J)	0.00011 (J)	<0.0005	<0.0005	<0.0005
2/8/2022				<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005	9.3E-05 (J)	0.00013 (J)				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005			<0.0005	<0.0005	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	<0.0005						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005		<0.0005	<0.0005	
11/2/2016					<0.0005		
11/3/2016		<0.0005	<0.0005	<0.0005		<0.0005	
11/14/2016	<0.0005						
1/11/2017		<0.0005	<0.0005	<0.0005			
1/13/2017					<0.0005	<0.0005	
2/24/2017	<0.0005						
3/1/2017			<0.0005	<0.0005			
3/2/2017		8E-05 (J)					
3/6/2017					<0.0005	<0.0005	
4/26/2017			<0.0005	<0.0005	<0.0005	<0.0005	
5/2/2017		<0.0005					
5/8/2017	7E-05 (J)						
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017							<0.0005
11/20/2017							<0.0005
1/11/2018							<0.0005
2/20/2018							<0.0005
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005	<0.0005	
4/2/2018	<0.0005						
4/3/2018							<0.0005
6/5/2018						<0.0005	
6/6/2018					8E-05 (J)		
6/7/2018			<0.0005				
6/11/2018		9E-05 (J)		5.7E-05 (J)			
6/28/2018							<0.0005
8/7/2018							<0.0005
9/19/2018	5.7E-05 (J)						
9/24/2018							<0.0005
9/25/2018		8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<0.0005	
3/5/2019		9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)	<0.0005	
3/6/2019			<0.0005				
4/2/2019		9E-05 (J)				<0.0005	
4/3/2019			<0.0005	7.5E-05 (J)	6.4E-05 (J)		
8/20/2019	<0.0005						
8/21/2019							<0.0005
9/24/2019						<0.0005	
9/25/2019		8.1E-05 (J)			<0.0005		
9/26/2019			<0.0005	8.4E-05 (J)			
10/9/2019							<0.0005
2/11/2020		7.8E-05 (J)	<0.0005	7.6E-05 (J)			
2/12/2020					7.8E-05 (J)	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)	<0.0005	
3/25/2020							<0.0005
8/27/2020	4.7E-05 (J)						
9/22/2020	<0.0005						
9/23/2020		8.1E-05 (J)	<0.0005	8.8E-05 (J)			
9/24/2020					8.3E-05 (J)	<0.0005	<0.0005
2/9/2021			<0.0005	9.8E-05 (J)	6.8E-05 (J)	<0.0005	
2/10/2021							5.1E-05 (J)
3/1/2021	5.5E-05 (J)						
3/3/2021		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)		
3/4/2021						<0.0005	<0.0005
8/19/2021	<0.0005						
8/26/2021				9.3E-05 (J)			<0.0005
8/27/2021		0.0001 (J)	<0.0005		5.9E-05 (J)		
9/1/2021						<0.0005	
2/8/2022	5.6E-05 (J)						<0.0005
2/9/2022		0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.0005	<0.0005	<0.0005	
7/26/2016		<0.0005	<0.0005	<0.0005	
8/31/2016					<0.0005
9/14/2016		<0.0005	<0.0005	<0.0005	
11/2/2016		<0.0005	<0.0005		
11/4/2016				<0.0005	
11/28/2016					<0.0005
1/12/2017			<0.0005	<0.0005	
1/13/2017		<0.0005			
2/22/2017					<0.0005
3/6/2017		<0.0005			
3/7/2017			<0.0005	<0.0005	
5/1/2017		<0.0005	<0.0005		
5/2/2017				<0.0005	
5/8/2017					<0.0005
6/27/2017			<0.0005	<0.0005	
6/29/2017		<0.0005			
7/17/2017					<0.0005
10/12/2017	0.0002 (J)				
10/16/2017					<0.0005
11/20/2017	0.0003 (J)				
1/10/2018	0.0003 (J)				
2/19/2018	<0.0005				<0.0005
3/29/2018		<0.0005	<0.0005	<0.0005	
4/3/2018	<0.0005				
6/6/2018			<0.0005		
6/7/2018		<0.0005		<0.0005	
6/28/2018	0.00029 (J)				
8/6/2018					<0.0005
8/7/2018	0.00024 (J)				
9/24/2018	0.00019 (J)				
9/26/2018		<0.0005	<0.0005	<0.0005	
2/25/2019					<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0005	<0.0005	<0.0005	
4/3/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005
8/19/2019					<0.0005
8/21/2019	0.0002 (J)				
9/24/2019			<0.0005	<0.0005	
9/25/2019		<0.0005			
10/8/2019					<0.0005
10/9/2019	0.0002 (J)				
2/12/2020	0.00018 (J)	<0.0005	<0.0005	<0.0005	
3/17/2020					<0.0005
3/24/2020	0.00022 (J)		<0.0005	<0.0005	
3/25/2020		<0.0005			
8/26/2020					<0.0005
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	0.0002 (J)				
2/8/2021			<0.0005	<0.0005	
2/9/2021		<0.0005			
2/10/2021	0.00021 (J)				
3/2/2021			<0.0005	<0.0005	<0.0005
3/3/2021		<0.0005			
3/4/2021	0.00021 (J)				
8/20/2021					<0.0005
8/26/2021		<0.0005	<0.0005	<0.0005	
9/3/2021	0.00024 (J)				
2/8/2022	0.00028 (J)				<0.0005
2/10/2022			<0.0005	<0.0005	
2/11/2022		<0.0005			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.04	<0.04				<0.04
6/2/2016	<0.04				<0.04	<0.04	
7/25/2016			<0.04		<0.04		<0.04
7/26/2016	0.0177 (J)	0.0055 (J)				0.0097 (J)	
9/13/2016		<0.04	<0.04				
9/14/2016				<0.04			<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	<0.04
11/2/2016	<0.04						
11/4/2016			<0.04	<0.04			
12/15/2016				0.0107 (J)			
1/10/2017	0.0198 (J)						
1/11/2017		0.0074 (J)				<0.04	<0.04
1/16/2017			<0.04	<0.04	<0.04		
2/21/2017					<0.04		
3/1/2017							<0.04
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	<0.04
4/27/2017		0.0066 (J)	<0.04				
4/28/2017				<0.04			
5/26/2017				<0.04			
6/27/2017		0.0087 (J)	0.006 (J)				
6/28/2017				<0.04		<0.04	<0.04
6/30/2017	0.0173 (J)				<0.04		
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04			
10/4/2017					<0.04	<0.04	<0.04
10/5/2017	0.0173 (J)						
6/5/2018		0.0052 (J)					
6/6/2018			<0.04				
6/7/2018				<0.04		0.004 (J)	
6/8/2018	0.013 (J)						<0.04
6/11/2018					0.014 (J)		
10/1/2018	0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04	<0.04
10/2/2018					<0.04		
3/28/2019		0.005 (J)	<0.04				
3/29/2019	0.014 (J)			0.0065 (J)			
4/1/2019					<0.04	<0.04	<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)	<0.04
3/18/2020	0.02 (J)		0.0087 (J)				
3/19/2020		0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)	0.0053 (J)
9/23/2020		<0.04	<0.04	<0.04		0.012 (J)	0.0073 (J)
9/24/2020					0.0075 (J)		
9/25/2020	0.02 (J)						
3/1/2021					<0.04		
3/2/2021	0.017 (J)						
3/3/2021		<0.04	<0.04	<0.04		<0.04	<0.04
8/19/2021	0.018 (J)	<0.04	<0.04		<0.04	<0.04	
8/27/2021				<0.04			<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		<0.04	<0.04	<0.04		0.01 (J)	<0.04
2/10/2022	0.02 (J)						
2/11/2022					<0.04		

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.97	0.62	2.2	1.3			
6/9/2016					2.2	2.3	0.88
8/1/2016	0.932	0.643	2	1.36			
8/2/2016					2.22	2.21	0.872
9/20/2016	1.04	0.644	2.02	1.69			
9/21/2016					2.65	2.54	0.853
11/7/2016	0.852	0.621	1.91	1.35		2.49	0.815
11/8/2016					2.44		
1/18/2017	0.972	0.607	1.69		1.88	2.04	
1/19/2017				1.15			0.803
2/21/2017	0.972	0.624				2.29	
2/22/2017				1.3	2.05		0.855
2/23/2017			1.76				
5/3/2017		0.676					
5/5/2017					3.01	3.41	
5/8/2017	1.05		2	1.51			0.884
6/30/2017			2.28	1.47			
7/5/2017					2.7		0.811
7/7/2017						3.01	
7/10/2017	0.855	0.58					
10/5/2017					2.53		0.851
10/6/2017				1.31			
10/9/2017			1.82			2.76	
10/10/2017	0.887	0.612					
6/11/2018							0.9
6/12/2018				1.6	2.8	2.9	
6/13/2018	0.86	0.67	2.2				
10/2/2018	0.93	0.62	1.9	1.4			0.81
10/3/2018					2.3	2.4	
4/1/2019			2.4	1.4	2.7		0.85
4/2/2019	0.9	0.63				2.9	
9/25/2019	0.86	0.63					0.73
9/26/2019			1.9	1.5	2.8	2.5	
3/19/2020		0.73			2.4	2.5	
3/20/2020	0.94		2.1	1.4			0.8
9/24/2020	0.76	0.74	2.3	1.3	2.1	2.6	0.84
3/2/2021		0.57					
3/3/2021	0.69		2	1.2	1.8	2.3	0.62
8/19/2021		0.71					
8/20/2021	0.72		2.5	1.2	2.3	2.5	0.66
2/8/2022				1.1	2.4	2.4	0.71
2/10/2022	0.79	0.79	2.5				

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.04	<0.04			
6/7/2016		<0.04			<0.04	<0.04	
7/27/2016		0.008 (J)	<0.04	0.0059 (J)	<0.04		
7/28/2016						<0.04	
8/30/2016	0.0166 (J)						
9/16/2016		0.0086 (J)		0.0079 (J)			
9/19/2016			<0.04		<0.04	<0.04	
11/2/2016					<0.04		
11/3/2016		0.0077 (J)	<0.04	0.0082 (J)		<0.04	
11/14/2016	0.0166 (J)						
1/11/2017		0.0092 (J)	<0.04	0.0096 (J)			
1/13/2017					<0.04	<0.04	
2/24/2017	0.0145 (J)						
3/1/2017			<0.04	<0.04			
3/2/2017		0.0095 (J)					
3/6/2017					<0.04	<0.04	
4/26/2017			<0.04	0.0091 (J)	<0.04	<0.04	
5/2/2017		<0.04					
5/8/2017	0.0141 (J)						
6/28/2017			<0.04	0.0079 (J)			
6/29/2017		0.0074 (J)			<0.04	<0.04	
7/11/2017	0.0131 (J)						
10/3/2017						<0.04	
10/4/2017		0.0077 (J)		0.009 (J)	<0.04		
10/5/2017			<0.04				
10/10/2017	0.0124 (J)						
10/11/2017							0.0135 (J)
11/20/2017							0.0251 (J)
1/11/2018							0.0255 (J)
2/20/2018							<0.04
4/2/2018	0.013 (J)						
4/3/2018							0.033 (J)
6/5/2018						0.0092 (J)	
6/6/2018					0.0049 (J)		
6/7/2018			<0.04				
6/11/2018		0.01 (J)		0.0093 (J)			
6/28/2018							0.053
8/7/2018							0.024 (J)
9/19/2018	0.012 (J)						
9/24/2018							0.028 (J)
9/25/2018		0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)	
3/27/2019	0.013 (J)						0.017 (J)
4/2/2019		0.0066 (J)				0.011 (J)	
4/3/2019			<0.04	0.0053 (J)	<0.04		
9/24/2019						0.018 (J)	
9/25/2019		0.0081 (J)			<0.04		
9/26/2019			0.0062 (J)	0.0072 (J)			
10/8/2019	0.012 (J)						
10/9/2019							0.017 (J)
3/17/2020	0.023 (J)						
3/24/2020		0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)	
3/25/2020							0.043 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	0.0076 (J)						
9/23/2020		0.0066 (J)	0.021 (J)	0.006 (J)			
9/24/2020					0.0094 (J)	0.013 (J)	0.037 (J)
3/1/2021	0.013 (J)						
3/3/2021		0.01 (J)	<0.04	0.0094 (J)	<0.04		
3/4/2021						0.0079 (J)	0.033 (J)
8/19/2021	0.011 (J)						
8/26/2021				<0.04			0.095
8/27/2021		0.011 (J)	<0.04		<0.04		
9/1/2021						<0.04	
2/8/2022	0.015 (J)						0.13
2/9/2022		0.0098 (J)	<0.04	<0.04	<0.04	<0.04	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.04	<0.04	<0.04	
7/26/2016		0.0047 (J)	0.0052 (J)	<0.04	
8/31/2016					0.0315 (J)
9/14/2016		<0.04	0.0071 (J)	0.01 (J)	
11/2/2016		<0.04	<0.04		
11/4/2016				<0.04	
11/28/2016					0.0095 (J)
1/12/2017			0.0076 (J)	<0.04	
1/13/2017		<0.04			
2/22/2017					<0.04
3/6/2017		<0.04			
3/7/2017			0.0089 (J)	<0.04	
5/1/2017		<0.04	0.0061 (J)		
5/2/2017				<0.04	
5/8/2017					0.0084 (J)
6/27/2017			0.0079 (J)	<0.04	
6/29/2017		<0.04			
7/17/2017					0.0092 (J)
10/3/2017			0.0094 (J)	<0.04	
10/5/2017		<0.04			
10/12/2017	0.0401				
10/16/2017					<0.04
11/20/2017	0.156				
1/10/2018	0.15				
2/19/2018	0.146				<0.04
4/3/2018	0.12				
6/6/2018			0.0098 (J)		
6/7/2018		0.0045 (J)		<0.04	
6/28/2018	0.16				
8/6/2018					<0.04
8/7/2018	0.12				
9/24/2018	0.099				
9/26/2018		0.005 (J)	0.01 (J)	0.0057 (J)	
2/25/2019					<0.04
3/26/2019	0.096				
4/3/2019		0.0055 (J)	0.0076 (J)	0.0044 (J)	
6/12/2019					<0.04
9/24/2019			0.01 (J)	0.0049 (J)	
9/25/2019		<0.04			
10/8/2019					<0.04
10/9/2019	0.079				
3/17/2020					0.0051 (J)
3/24/2020	0.088 (J)		0.011 (J)	0.0068 (J)	
3/25/2020		0.011 (J)			
9/22/2020		<0.04	0.0079 (J)	0.0053 (J)	0.0079 (J)
9/24/2020	0.087 (J)				
3/2/2021			0.0068 (J)	0.011 (J)	<0.04
3/3/2021		0.0056 (J)			
3/4/2021	0.078				
8/20/2021					<0.04
8/26/2021		<0.04	0.009 (J)	<0.04	
9/3/2021	0.077				

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	0.074				<0.04
2/10/2022			0.011 (J)	<0.04	
2/11/2022		<0.04			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	<0.0005	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	<0.0005					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	<0.0005						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	<0.0005						
1/11/2017		0.0002 (J)				0.0001 (J)	8E-05 (J)
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
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	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	<0.0005				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	<0.0005				<0.0005		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	<0.0005			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	<0.0005				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	<0.0005				<0.0005	<0.0005	
3/18/2020	<0.0005		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
9/24/2020					<0.0005		
9/25/2020	<0.0005						
2/10/2021	<0.0005			<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						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<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 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					0.00055 (J)	<0.0005	<0.0005
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					0.0001 (J)	<0.0005	0.0001 (J)
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/21/2016					0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	0.0002 (J)
11/8/2016					9E-05 (J)		
1/18/2017	<0.0005	<0.0005	<0.0005		9E-05 (J)	<0.0005	
1/19/2017				<0.0005			0.0001 (J)
2/21/2017	<0.0005	<0.0005				<0.0005	
2/22/2017				<0.0005	0.0001 (J)		0.0001 (J)
2/23/2017			<0.0005				
5/3/2017		<0.0005					
5/5/2017					9E-05 (J)	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			0.0002 (J)
6/30/2017			<0.0005	<0.0005			
7/5/2017					0.0002 (J)		0.0002 (J)
7/7/2017						<0.0005	
7/10/2017	<0.0005	<0.0005					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019			<0.0005	<0.0005	0.00043 (J)		0.00022 (J)
4/2/2019	<0.0005	<0.0005				<0.0005	
9/25/2019	<0.0005	<0.0005					0.00024 (J)
9/26/2019			<0.0005	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020		<0.0005			0.00016 (J)	<0.0005	
3/20/2020	<0.0005		<0.0005	<0.0005			0.00022 (J)
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00033 (J)
2/10/2021	<0.0005	<0.0005	<0.0005	<0.0005			
2/11/2021					0.00052 (J)		
2/12/2021						0.00048 (J)	<0.0005
3/2/2021		<0.0005					
3/3/2021	<0.0005		<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00029 (J)
8/19/2021		<0.0005					
8/20/2021	<0.0005		<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022				<0.0005	0.00033 (J)	<0.0005	0.00019 (J)
2/10/2022	<0.0005	<0.0005	<0.0005				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005			<0.0005	<0.0005	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	0.0001 (J)						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005		<0.0005	<0.0005	
11/2/2016					<0.0005		
11/3/2016		<0.0005	<0.0005	<0.0005		<0.0005	
11/14/2016	0.0001 (J)						
1/11/2017		0.0001 (J)	<0.0005	0.0001 (J)			
1/13/2017					<0.0005	<0.0005	
2/24/2017	9E-05 (J)						
3/1/2017			<0.0005	<0.0005			
3/2/2017		<0.0005					
3/6/2017					<0.0005	<0.0005	
4/26/2017			<0.0005	<0.0005	<0.0005	<0.0005	
5/2/2017		<0.0005					
5/8/2017	0.0001 (J)						
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017							<0.0005
11/20/2017							<0.0005
1/11/2018							<0.0005
2/20/2018							<0.0005
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005	<0.0005	
4/2/2018	<0.0005						
4/3/2018							<0.0005
6/5/2018						<0.0005	
6/6/2018					<0.0005		
6/7/2018			<0.0005				
6/11/2018		<0.0005		<0.0005			
6/28/2018							<0.0005
8/7/2018							<0.0005
9/19/2018	<0.0005						
9/24/2018							<0.0005
9/25/2018		<0.0005	<0.0005	<0.0005	<0.0005	9.6E-05 (J)	
3/5/2019		<0.0005		<0.0005	<0.0005	<0.0005	
3/6/2019			<0.0005				
4/2/2019		<0.0005				<0.0005	
4/3/2019			<0.0005	<0.0005	<0.0005		
8/20/2019	<0.0005						
8/21/2019							<0.0005
9/24/2019						<0.0005	
9/25/2019		<0.0005			<0.0005		
9/26/2019			<0.0005	<0.0005			
10/8/2019	<0.0005						
10/9/2019							<0.0005
2/11/2020		<0.0005	<0.0005	<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005						
3/24/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/25/2020							<0.0005
8/27/2020	<0.0005						
9/23/2020		<0.0005	<0.0005	<0.0005			
9/24/2020					<0.0005	<0.0005	<0.0005
2/9/2021			<0.0005	<0.0005	<0.0005	0.00041 (J)	
2/10/2021							0.00019 (J)
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005		
3/4/2021						<0.0005	0.0003 (J)
8/19/2021	<0.0005						
8/26/2021				<0.0005			0.00049 (J)
8/27/2021		<0.0005	<0.0005		<0.0005		
9/1/2021						<0.0005	
2/8/2022	<0.0005						0.00063
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.0005	<0.0005	<0.0005	
7/26/2016		<0.0005	<0.0005	<0.0005	
8/31/2016					<0.0005
9/14/2016		<0.0005	<0.0005	<0.0005	
11/2/2016		<0.0005	<0.0005		
11/4/2016				<0.0005	
11/28/2016					<0.0005
1/12/2017			<0.0005	9E-05 (J)	
1/13/2017		<0.0005			
2/22/2017					<0.0005
3/6/2017		<0.0005			
3/7/2017			<0.0005	<0.0005	
5/1/2017		<0.0005	<0.0005		
5/2/2017				<0.0005	
5/8/2017					<0.0005
6/27/2017			<0.0005	<0.0005	
6/29/2017		<0.0005			
7/17/2017					<0.0005
10/12/2017	<0.0005				
10/16/2017					<0.0005
11/20/2017	<0.0005				
1/10/2018	<0.0005				
2/19/2018	<0.0005				<0.0005
3/29/2018		<0.0005	<0.0005	<0.0005	
4/3/2018	<0.0005				
6/6/2018			<0.0005		
6/7/2018		<0.0005		<0.0005	
6/28/2018	<0.0005				
8/6/2018					<0.0005
8/7/2018	<0.0005				
9/24/2018	<0.0005				
9/26/2018		<0.0005	<0.0005	<0.0005	
2/25/2019					<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0005	<0.0005	<0.0005	
4/3/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005
8/19/2019					<0.0005
8/21/2019	<0.0005				
9/24/2019			<0.0005	<0.0005	
9/25/2019		<0.0005			
10/8/2019					<0.0005
10/9/2019	<0.0005				
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	
3/17/2020					<0.0005
3/24/2020	<0.0005		<0.0005	<0.0005	
3/25/2020		<0.0005			
8/26/2020					<0.0005
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	<0.0005				
2/8/2021			<0.0005	<0.0005	
2/9/2021		<0.0005			
2/10/2021	<0.0005				
3/2/2021			<0.0005	<0.0005	<0.0005
3/3/2021		<0.0005			
3/4/2021	<0.0005				
8/20/2021					<0.0005
8/26/2021		<0.0005	<0.0005	<0.0005	
9/3/2021	<0.0005				
2/8/2022	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	
2/11/2022		<0.0005			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		12	2.5				21
6/2/2016	1.3				1.3	28	
7/25/2016			2.16		1.17		20.3
7/26/2016	1.24	11				24.5	
9/13/2016		11.8	2.21				
9/14/2016				23.5			19.7
9/15/2016	1.17					27	
9/19/2016					1.05		
11/1/2016		11			1.14	25.6	18.4
11/2/2016	1.23						
11/4/2016			2.67	23.7			
12/15/2016				23.1			
1/10/2017	1.24						
1/11/2017		11.2				27.5	20.3
1/16/2017			2.45	23.3	1.23		
2/21/2017					1.25		
3/1/2017							18.6
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	25.6
4/27/2017		11.1	2.38				
4/28/2017				30.7			
5/26/2017				26.2			
6/27/2017		13.8	2.36				
6/28/2017				26.1		29.8	23.9
6/30/2017	1.24				1.13		
10/3/2017		14	2.21	26.7			
10/4/2017					1.09	29.7	22.1
10/5/2017	1.11						
6/5/2018		15.2 (J)					
6/6/2018			2.3				
6/7/2018				25		29.1	
6/8/2018	1.1						21.9 (J)
6/11/2018					1.1		
10/1/2018	0.99	15.1	1.8	25		26.9	19.7
10/2/2018					1.1		
3/28/2019		13.3 (J)	2.2				
3/29/2019	1.1			23.5 (J)			
4/1/2019					1.3	30.1	20.4 (J)
9/24/2019		15.8	2.3	26.4			
9/25/2019	1.1				1.1	29.5	22.4
3/18/2020	1.1		2.1				
3/19/2020		15		27.4	1.2	31.5	21.9
9/23/2020		14.1	1.8	26.3		28.6	23.6
9/24/2020					1.1		
9/25/2020	1.3						
3/1/2021					1.2		
3/2/2021	1.2						
3/3/2021		14.1	1.8	25.6		29.8	20.6
8/19/2021	1.2	14.2	2		1.2	28.1	
8/27/2021				22.6			24.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		14.9	2.1	23.4		30.3	23.7
2/10/2022	1.3						
2/11/2022					1.5		

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	15	13	25	44			
6/9/2016					36	26	12
8/1/2016	14.5	12.2	21.4	36.3			
8/2/2016					35.5	25.8	11.7
9/20/2016	15.3	12.2	26.3	39.5			
9/21/2016					33.2	24.9	11.1
11/7/2016	13.8	12.1	26.1	34.9		25.1	11.4
11/8/2016					33.8		
1/18/2017	15.1	11.5	25.6		33.4	26.1	
1/19/2017				37			12
2/21/2017	14.6	11.7				29	
2/22/2017				37.6	33.8		11.2
2/23/2017			28.2				
5/3/2017		11.9					
5/5/2017					33.5	28.1	
5/8/2017	15.2		27.2	35.7			11.2
6/30/2017			27.2	36.2			
7/5/2017					33.4		11.9
7/7/2017						28.6	
7/10/2017	17.4	12.7					
10/5/2017					36.4		12
10/6/2017				39.8			
10/9/2017			27.3			27.3	
10/10/2017	15.5	11.4					
6/11/2018							12.1
6/12/2018				36.2	33.4	26.4	
6/13/2018	15.5	12.5	29.4				
10/2/2018	14.7	12.4 (J)	29.2	39.1			11.7 (J)
10/3/2018					32.6	25.8	
4/1/2019			27.4	38	33.8		11.9 (J)
4/2/2019	16.1 (J)	11.9 (J)				25.7	
9/25/2019	15.6	11.6					10.7
9/26/2019			24.2	37.5	32	26.1	
3/19/2020		13			37.3	30.4	
3/20/2020	17.1		30.3	42.1			12.7
9/24/2020	16.9	11.3	27.9	38.6	34.3	30.8	12.4
3/2/2021		12.9					
3/3/2021	16.1		25.7	30.2	30.9	28.4	9.5
8/19/2021		11.5					
8/20/2021	17.2		25.7	29.9	33.1	27.8	10.2
2/8/2022				27.2	31.8	26.7	9.3
2/10/2022	16.4	11.6	27.4				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.2	1.4			
6/7/2016		2.2			2.3	3.7	
7/27/2016		2	4.73	1.19	2.08		
7/28/2016						3.15	
8/30/2016	20.9						
9/16/2016		1.97		1.5			
9/19/2016			4.76		1.97	3.17	
11/2/2016					2.13		
11/3/2016		1.99	5.25	1.31		3.4	
11/14/2016	18.6						
1/11/2017		2.28	4.74	1.25			
1/13/2017					2.45	4.98	
2/24/2017	16.1						
3/1/2017			5.37	1.26			
3/2/2017		2.15					
3/6/2017					2.48	6.28	
4/26/2017			4.28	1.05	2.3	6.65	
5/2/2017		1.95					
5/8/2017	14.6						
6/28/2017			4.95	1.06			
6/29/2017		2.02			2.54	6.04	
7/11/2017	14.3						
10/3/2017						8.28	
10/4/2017		2.03		1.1	2.25		
10/5/2017			5.28				
10/10/2017	12.1						
10/11/2017							2.74
11/20/2017							1.81
1/11/2018							1.54
2/20/2018							1.71
4/2/2018	<25						
4/3/2018							1.4
6/5/2018						9.1	
6/6/2018					2.3		
6/7/2018			4.8				
6/11/2018		2.1		1.4			
6/28/2018							1.4
8/7/2018							1.2
9/19/2018	11.1 (J)						
9/24/2018							1.1
9/25/2018		2.1	4.6	1	2.3	10.4 (J)	
3/27/2019	10.8 (J)						1.5
4/2/2019		2.5				8.8	
4/3/2019			5.3	1.2	2.9		
9/24/2019						7.7	
9/25/2019		2.6			2.4		
9/26/2019			4.9	1.1			
10/8/2019	9.7						
10/9/2019							2.4
3/17/2020	14.8						
3/24/2020		2.7	5.3	1	2.6	6	
3/25/2020							2.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	10.1						
9/23/2020		2.6	5.2	0.91 (J)			
9/24/2020					2.6	7.8	3.7
3/1/2021	10.3						
3/3/2021		2.5	5.2	0.96 (J)	2.4		
3/4/2021						8.7	8.2
8/19/2021	9.6						
8/26/2021				0.98 (J)			14.1
8/27/2021		2.7	5.1		2.4		
9/1/2021						9.5	
2/8/2022	9.4						15.2
2/9/2022		2.8	5.1	0.87 (J)	2.3	9.8	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8.8	33	2.4	
7/26/2016		7.69	32.3	2.12	
8/31/2016					9.31
9/14/2016		8.49	31	2.18	
11/2/2016		7.83	30.9		
11/4/2016				2.17 (J)	
11/28/2016					9.47 (B)
1/12/2017			35.7	2.37	
1/13/2017		8.08			
2/22/2017					10.4
3/6/2017		8.64			
3/7/2017			32.7	2.34	
5/1/2017		13.4	37		
5/2/2017				2.17	
5/8/2017					14.2
6/27/2017			36.5	2.13	
6/29/2017		8.81			
7/17/2017					14.1
10/3/2017			30.9	2.15	
10/5/2017		9.29			
10/12/2017	2.9				
10/16/2017					13.6
11/20/2017	10.4				
1/10/2018	10.2				
2/19/2018	<25				<25
4/3/2018	6.3				
6/6/2018			26.2		
6/7/2018		8.2		2.3	
6/28/2018	6.7				
8/6/2018					11.4 (J)
8/7/2018	6.3				
9/24/2018	5.7				
9/26/2018		9.5 (J)	25.8	2.3	
2/25/2019					12.7 (J)
3/26/2019	5.6				
4/3/2019		8.4	24.7 (J)	2.8	
6/12/2019					18.9
9/24/2019			25.8	2.5	
9/25/2019		9.5			
10/8/2019					28.3
10/9/2019	4.9				
3/17/2020					24.3
3/24/2020	4.8		26.1	2.5	
3/25/2020		10.5			
9/22/2020		9.6	27.2	2.6	31
9/24/2020	4.4				
3/2/2021			1.6	2.6	34.2
3/3/2021		7.7			
3/4/2021	4.6				
8/20/2021					26.5
8/26/2021		7.6	25.2	2.5	
9/3/2021	5.6				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	6				25.6
2/10/2022			24.8	2.5	
2/11/2022		7.5			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		1.3	1.6				1.3
6/2/2016	4.1				1.9	1.4	
7/25/2016			1.4		1.7		1.3
7/26/2016	4	1.2				1.6	
9/13/2016		1.1	1.3				
9/14/2016				1.1			1.3
9/15/2016	4.2					1.5	
9/19/2016					1.6		
11/1/2016		1.3			1.8	1.7	1.4
11/2/2016	4.9						
11/4/2016			1.6	1.4			
12/15/2016				2.9			
1/10/2017	4.1						
1/11/2017		1.1				1.2	1.1
1/16/2017			1.4	0.98	1.7		
2/21/2017					1.7		
3/1/2017							1.1
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	1.1
4/27/2017		1	1.3				
4/28/2017				0.91			
5/26/2017				0.93			
6/27/2017		1.1	1.4				
6/28/2017				1		1.3	1.2
6/30/2017	3.7				1.8		
10/3/2017		1.1	1.7	1.2			
10/4/2017					1.8	1.5	1.2
10/5/2017	3.8						
6/5/2018		1.1					
6/6/2018			1.4				
6/7/2018				1		1.2	
6/8/2018	3.4						1.2
6/11/2018					2		
10/1/2018	3.8	1.1	1.4	1.1		1.5	1.2
10/2/2018					1.8		
3/28/2019		1.4	1.5				
3/29/2019	4.2			1.2			
4/1/2019					1.7	1.2	1.1
9/24/2019		1.1	1.3	0.95 (J)			
9/25/2019	4.8				1.6	1.1	1.1
3/18/2020	5.2		1.4				
3/19/2020		1.1		0.97 (J)	1.8	1.2	1.1
9/23/2020		0.99 (J)	1.2	0.88 (J)		1.1	1
9/24/2020					1.5		
9/25/2020	5.3						
3/1/2021					1.6		
3/2/2021	4.9						
3/3/2021		0.96 (J)	1.2	0.86 (J)		1.1	0.99 (J)
8/19/2021	5	1.1	1.3		1.6	1.1	
8/27/2021				0.99 (J)			1.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		1	1.3	1 (J)		1.1	1.1
2/10/2022	4.7						
2/11/2022					2.1		

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	19	18	14	22			
6/9/2016					18	19	15
8/1/2016	17	16	13	21			
8/2/2016					18	18	14
9/20/2016	18	18	13	22			
9/21/2016					18	19	14
11/7/2016	17	16	14	24		20	14
11/8/2016					18		
1/18/2017	19	17	14		18	20	
1/19/2017				22			14
2/21/2017	18	16				19	
2/22/2017				21	18		13
2/23/2017			14				
5/3/2017		17					
5/5/2017					19	21	
5/8/2017	18		14	22			15
6/30/2017			14	21			
7/5/2017					18		14
7/7/2017						20	
7/10/2017	19	15					
10/5/2017					19		15
10/6/2017				21			
10/9/2017			14			20	
10/10/2017	19	15					
6/11/2018							13.6
6/12/2018				19.8	17.6	19.3	
6/13/2018	18.1	14.2	13.1				
10/2/2018	18.3	14	13.8	19.9			13.4
10/3/2018					17.7	20.2	
4/1/2019			14.2	19.7	17.2		13.1
4/2/2019	17.9	13.5				19.5	
9/25/2019	17.1	14.4					11.3
9/26/2019			14.3	19.6	17.3	19.5	
3/19/2020		15.4			16	18.1	
3/20/2020	17.7		13	17.7			11.3
9/24/2020	17.1	15.7	13.3	17	15.1	18	10.9
3/2/2021		13.2					
3/3/2021	16.6		13	4	14.6	18	6.7
8/19/2021		13.5					
8/20/2021	14.4		13.7	15.2	15.2	18.1	6.8
2/8/2022				13	15.2	18.3	5.5
2/10/2022	15.4	14	13.1				

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.8	6.4			
6/7/2016		4.5			1.9	2.8	
7/27/2016		4.5	6.7	6.2	1.9		
7/28/2016						2.6	
8/30/2016	5.2						
9/16/2016		4.5		6.1			
9/19/2016			7		1.9	2.4	
11/2/2016					2.6		
11/3/2016		5.4	7.5	7.4		2.9	
11/14/2016	6.4						
1/11/2017		4.7	6.5	6.1			
1/13/2017					2.3	2.5	
2/24/2017	5.5						
3/1/2017			6.9	6			
3/2/2017		4.8					
3/6/2017					1.9	2.1	
4/26/2017			7	6.5	2	2.1	
5/2/2017		4.6					
5/8/2017	5.8						
6/28/2017			7	6.4			
6/29/2017		4.5			2.6	2.8	
7/11/2017	5.8						
10/3/2017						2.2	
10/4/2017		4.7		6.8	2.6		
10/5/2017			7				
10/10/2017	5.9						
10/11/2017							2.4
11/20/2017							1.8
1/11/2018							1.6
2/20/2018							2
4/2/2018	4.8						
4/3/2018							3.3
6/5/2018						1.7	
6/6/2018					2.7		
6/7/2018			6.8				
6/11/2018		4.9		6.8			
6/28/2018							2.1
8/7/2018							1.2
9/19/2018	4						
9/24/2018							1.3
9/25/2018		5.6	7.9	7.8	3.6	2.2	
3/27/2019	4.3						1.4
4/2/2019		4.8				2.5	
4/3/2019			6.9	6.3	3.1		
9/24/2019						3.1	
9/25/2019		5.7			2.8		
9/26/2019			7	7.1			
10/8/2019	4.4						
10/9/2019							2.1
3/17/2020	4.1						
3/24/2020		5	7	6.8	2.7	2.8	
3/25/2020							1.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	4.2						
9/23/2020		6.6	7.2	7.2			
9/24/2020					2.7	2	2.7
3/1/2021	3.7						
3/3/2021		7.1	7	7.2	2.7		
3/4/2021						1.8	4.9
8/19/2021	3.5						
8/26/2021				7.3			7.2
8/27/2021		8.5	7.4		2.8		
9/1/2021						1.8	
2/8/2022	3.2						7.4
2/9/2022		10.9	7.5	7	2.8	1.7	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		3.7	7.2	4.3	
7/26/2016		3.6	6.6	4.4	
8/31/2016					4
9/14/2016		3.4	6.6	3.8	
11/2/2016		4.5	7.6		
11/4/2016				4.8	
11/28/2016					4.2
1/12/2017			6.8	3.8	
1/13/2017		4.2			
2/22/2017					3.7
3/6/2017		3.6			
3/7/2017			6.8	4.5	
5/1/2017		4.3	7.2		
5/2/2017				4.6	
5/8/2017					4.2
6/27/2017			7	4.3	
6/29/2017		4.2			
7/17/2017					3.8
10/3/2017			6.5	4.2	
10/5/2017		4.7			
10/12/2017	3.8				
10/16/2017					4.2
11/20/2017	4.4				
1/10/2018	4.6				
2/19/2018	4.6				4.3
4/3/2018	5.9				
6/6/2018			4.7		
6/7/2018		4.4		4.5	
6/28/2018	5				
8/6/2018					3.8
8/7/2018	4.3				
9/24/2018	4.9				
9/26/2018		4.8	4.8	5.1	
2/25/2019					4.1
3/26/2019	4.4				
4/3/2019		4.3	4	4.2	
6/12/2019					4.7
9/24/2019			3.7	4.5	
9/25/2019		4.5			
10/8/2019					5.1
10/9/2019	5.1				
3/17/2020					4.8
3/24/2020	4.7		3.5	4.3	
3/25/2020		3.9			
9/22/2020		4.5	3.6	4.2	4.2
9/24/2020	5				
3/2/2021			3.2	4.3	4.1
3/3/2021		4.1			
3/4/2021	4.9				
8/20/2021					5.2
8/26/2021		4.4	3.4	4.3	
9/3/2021	5.5				

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	6.2				5.7
2/10/2022			3.2	4.4	
2/11/2022		4.1			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0035	<0.005				<0.005
6/2/2016	<0.005				<0.005	0.0013 (J)	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0009 (J)	0.0004 (J)			0.0006 (J)	
3/3/2017				0.0005 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0016 (J)	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				0.0004 (J)			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.0021 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.00072 (J)	0.0028 (J)	<0.005			
9/25/2019	<0.005				<0.005	0.0014 (J)	0.0019 (J)
2/10/2020		0.00042 (J)	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		0.00044 (J)				
3/19/2020		0.00084 (J)		0.00048 (J)	<0.005	<0.005	<0.005
9/23/2020		0.00062 (J)	0.00058 (J)	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<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						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<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 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0012 (J)	<0.005			
6/7/2016		<0.005			<0.005	<0.005	
7/27/2016		0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)		
7/28/2016						<0.005	
8/30/2016	<0.005						
9/16/2016		<0.005		<0.005			
9/19/2016			<0.005		<0.005	<0.005	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		<0.005	
11/14/2016	0.0093 (J)						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<0.005						
3/1/2017			0.0012 (J)	<0.005			
3/2/2017		0.001 (J)					
3/6/2017					<0.005	<0.005	
4/26/2017			0.0005 (J)	0.0003 (J)	0.0007 (J)	<0.005	
5/2/2017		0.0007 (J)					
5/8/2017	<0.005						
6/28/2017			0.0006 (J)	<0.005			
6/29/2017		0.0006 (J)			0.0005 (J)	<0.005	
7/11/2017	<0.005						
10/10/2017	<0.005						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	<0.005						
9/24/2018							<0.005
3/5/2019		<0.005		<0.005	<0.005	<0.005	
3/6/2019			<0.005				
8/20/2019	<0.005						
8/21/2019							<0.005
10/9/2019							<0.005
2/11/2020		0.00087 (J)	0.001 (J)	0.00088 (J)			
2/12/2020					0.00045 (J)	<0.005	<0.005
3/24/2020		0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005	
3/25/2020							<0.005
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		0.00098 (J)	0.00092 (J)	0.0012 (J)			
9/24/2020					0.00076 (J)	<0.005	<0.005
2/9/2021			0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005	
2/10/2021							<0.005
3/1/2021	<0.005						
3/3/2021		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/4/2021						<0.005	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	<0.005						<0.005
2/9/2022		<0.005	<0.005	0.0014 (J)	<0.005	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		<0.005	<0.005	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
3/6/2017		<0.005			
3/7/2017			<0.005	<0.005	
5/1/2017		<0.005	0.0004 (J)		
5/2/2017				<0.005	
5/8/2017					<0.005
6/27/2017			<0.005	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/28/2018	<0.005				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
2/25/2019					<0.005
3/4/2019		<0.005	<0.005	<0.005	
6/12/2019					<0.005
8/19/2019					<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	0.00053 (J)				
10/8/2019					<0.005
10/9/2019	0.0012 (J)				
2/12/2020	0.00065 (J)	<0.005	<0.005	0.00043 (J)	
3/17/2020					<0.005
3/24/2020	0.00055 (J)		<0.005	0.0014 (J)	
3/25/2020		0.00058 (J)			
8/26/2020					<0.005
9/22/2020		<0.005	0.0011 (J)	<0.005	<0.005
9/24/2020	<0.005				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		0.0013 (J)			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	<0.005	<0.005	
9/3/2021	<0.005				
2/8/2022	<0.005				<0.005
2/10/2022			<0.005	<0.005	
2/11/2022		<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	0.00082 (J)				<0.005
6/2/2016	<0.005				0.035	<0.005	
7/25/2016			0.0008 (J)		0.0312		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	0.0009 (J)				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					0.0275		
11/1/2016		<0.005			0.0255	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			0.0025 (J)	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			0.0027 (J)	<0.005	0.0245		
2/21/2017					0.0272		
3/1/2017							<0.005
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	<0.005
4/27/2017		<0.005	0.0018 (J)				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	0.0023 (J)				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				0.0233		
3/27/2018	<0.005		<0.005		0.023		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
6/5/2018		<0.005					
6/6/2018			<0.005				
6/7/2018				<0.005		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					0.023		
10/1/2018	<0.005	<0.005	0.00059 (J)	<0.005		<0.005	<0.005
10/2/2018					0.022		
2/26/2019	<0.005				0.021		
2/27/2019		<0.005	0.00064 (J)	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					0.022	<0.005	<0.005
9/24/2019		<0.005	0.0013 (J)	<0.005			
9/25/2019	<0.005				0.016	<0.005	<0.005
2/10/2020		<0.005	0.0016 (J)				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				0.014	<0.005	
3/18/2020	<0.005		0.00087 (J)				
3/19/2020		<0.005		<0.005	0.014	<0.005	<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005		<0.005	<0.005
9/24/2020					0.0064		
9/25/2020	<0.005						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					0.0078		
2/12/2021		0.00086 (J)	0.0028 (J)				
3/1/2021					0.0061		
3/2/2021	<0.005						
3/3/2021		<0.005	0.003 (J)	<0.005		<0.005	<0.005
8/19/2021	<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					0.0038 (J)		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.005	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	<0.005	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	<0.005	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017				0.0024 (J)			<0.005
2/21/2017	<0.005	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.005		<0.005
2/23/2017			0.002 (J)				
5/3/2017		0.002 (J)					
5/5/2017					<0.005	0.0012 (J)	
5/8/2017	<0.005		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.005		0.0003 (J)
7/7/2017						0.0012 (J)	
7/10/2017	<0.005	0.002 (J)					
3/29/2018			0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
6/11/2018							<0.005
6/12/2018				0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	<0.005	0.0017 (J)	0.092				
10/2/2018	<0.005	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018					<0.005	0.0013 (J)	
2/27/2019	<0.005	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019			0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	<0.005	0.0022 (J)				0.0011 (J)	
9/25/2019	<0.005	0.0033 (J)					<0.005
9/26/2019			0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	<0.005	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020		0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020	<0.005		0.014	0.0022 (J)			<0.005
9/24/2020	<0.005	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	<0.005	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	0.00094 (J)
3/2/2021		0.0021 (J)					
3/3/2021	<0.005		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021		0.0017 (J)					
8/20/2021	<0.005		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022				0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	<0.005	0.0026 (J)	0.0051				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	0.00061 (J)			
6/7/2016		<0.005			<0.005	0.0056	
7/27/2016		<0.005	<0.005	0.0004 (J)	<0.005		
7/28/2016						0.0032 (J)	
8/30/2016	0.0073 (J)						
9/16/2016		<0.005		0.0008 (J)			
9/19/2016			<0.005		<0.005	0.0047 (J)	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		0.013	
11/14/2016	0.0115						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	0.011	
2/24/2017	0.0106						
3/1/2017			<0.005	<0.005			
3/2/2017		<0.005					
3/6/2017					<0.005	0.011	
4/26/2017			<0.005	<0.005	<0.005	0.009 (J)	
5/2/2017		<0.005					
5/8/2017	0.0099 (J)						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	0.0093 (J)	
7/11/2017	0.0096 (J)						
10/10/2017	0.0036 (J)						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						0.0041 (J)	
6/6/2018					<0.005		
6/7/2018			<0.005				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	0.0036 (J)						
9/24/2018							<0.005
9/25/2018		<0.005	<0.005	<0.005	<0.005	0.0044 (J)	
3/5/2019		<0.005		<0.005	<0.005	0.0039 (J)	
3/6/2019			<0.005				
4/2/2019		<0.005				0.0039 (J)	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	0.00092 (J)						
8/21/2019							0.00034 (J)
9/24/2019						0.0032 (J)	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/8/2019	0.0014 (J)						
10/9/2019							<0.005
2/11/2020		<0.005	<0.005	<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0081	0.00034 (J)
3/17/2020	0.0017 (J)						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0061	
3/25/2020							0.00034 (J)
8/27/2020	0.0011 (J)						
9/22/2020	0.00097 (J)						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0079	0.00053 (J)
2/9/2021			<0.005	<0.005	<0.005	0.009	
2/10/2021							0.00098 (J)
3/1/2021	0.001 (J)						
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						0.0065	0.00071 (J)
8/19/2021	0.00099 (J)						
8/26/2021				<0.005			0.0011 (J)
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						0.0068	
2/8/2022	0.0013 (J)						0.0012 (J)
2/9/2022		<0.005	<0.005	<0.005	<0.005	0.0078	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		0.00082 (J)	<0.005	<0.005	
7/26/2016		0.0012 (J)	<0.005	<0.005	
8/31/2016					0.0053 (J)
9/14/2016		0.0006 (J)	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					0.0036 (J)
1/12/2017			<0.005	<0.005	
1/13/2017		0.0029 (J)			
2/22/2017					0.0049 (J)
3/6/2017		0.0006 (J)			
3/7/2017			<0.005	<0.005	
5/1/2017		<0.005	<0.005		
5/2/2017				<0.005	
5/8/2017					0.0059 (J)
6/27/2017			<0.005	<0.005	
6/29/2017		0.0005 (J)			
7/17/2017					0.0046 (J)
10/12/2017	<0.005				
10/16/2017					0.0034 (J)
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/6/2018			<0.005		
6/7/2018		0.00058 (J)		<0.005	
6/28/2018	<0.005				
8/6/2018					0.003 (J)
8/7/2018	<0.005				
9/24/2018	<0.005				
9/26/2018		<0.005	<0.005	<0.005	
2/25/2019					0.001 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		0.00083 (J)	<0.005	<0.005	
6/12/2019					0.003 (J)
8/19/2019					0.0035 (J)
8/21/2019	<0.005				
9/24/2019			<0.005	<0.005	
9/25/2019		<0.005			
10/8/2019					0.0039 (J)
10/9/2019	<0.005				
2/12/2020	<0.005	<0.005	0.00037 (J)	<0.005	
3/17/2020					0.003 (J)
3/24/2020	<0.005		0.00035 (J)	<0.005	
3/25/2020		0.00056 (J)			
8/26/2020					0.2 (O)
9/22/2020		<0.005	<0.005	<0.005	0.16 (O)
9/24/2020	<0.005				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	0.21 (O)
3/3/2021		<0.005			
3/4/2021	<0.005				
8/20/2021					0.074 (O)
8/26/2021		0.00042 (J)	<0.005	<0.005	
9/3/2021	<0.005				
2/8/2022	<0.005				0.072 (O)
2/10/2022			<0.005	<0.005	
2/11/2022		<0.005			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.321 (U)	0.42				0.896
6/2/2016	0.329 (U)				0.0652 (U)	2.51	
7/25/2016			1.83		3.01		2.28
7/26/2016	1.51	0.707 (U)				3.82	
9/13/2016		1.22	0.841				
9/14/2016				0.98 (U)			0.821 (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	0.585 (U)
11/2/2016	0.496 (U)						
11/4/2016			0.166 (U)	0.277 (U)			
12/15/2016				0.071 (U)			
1/10/2017	0.376 (U)						
1/11/2017		0.705 (U)				2.52	1.22
1/16/2017			0	0.44 (U)	0.284 (U)		
2/21/2017					0.503 (U)		
3/1/2017							0.877 (U)
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	0.672 (U)
4/27/2017		1.08	0.593 (U)				
4/28/2017				0.548 (U)			
5/26/2017				0 (U)			
6/27/2017		1.02 (U)	0.657 (U)				
6/28/2017				0.608 (U)		2.6	1.07 (U)
6/30/2017	0.994				0.738 (U)		
3/27/2018	0.189 (U)		0.39 (U)		0.31 (U)		
3/28/2018				0.412 (U)		3	0.65 (U)
3/29/2018		0.503 (U)					
6/5/2018		0.771 (U)					
6/6/2018			2.8				
6/7/2018				0.73 (U)		2.79	
6/8/2018	0.218 (U)						1.89
6/11/2018					0.608 (U)		
10/1/2018	1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14	1.58
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	3.67
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	2.28
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)			
9/25/2019	0.707 (U)				1.02 (U)	4.2	1.6
2/10/2020		1.41	1.25 (U)				
2/11/2020				0.817 (U)		3.87	1.85
2/12/2020	1.07 (U)				0.301 (U)		
3/18/2020	0.207 (U)		0.458 (U)				
3/19/2020		1.1		0.715 (U)	1	3.96	2.2
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)		4.14	1.14 (U)
9/24/2020					0.684 (U)		
9/25/2020	0.603 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.353 (U)			1.04 (U)		3.65	2.46
2/11/2021					0.678 (U)		
2/12/2021		0.366 (U)	0.458 (U)				
3/1/2021					0.412 (U)		
3/2/2021	0.71 (U)						
3/3/2021		0.492 (U)	0.105 (U)	0.459 (U)		3.58	2.03
8/19/2021	0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53	
8/27/2021				0.409 (U)			1.34
2/9/2022		1.19	0.422 (U)	0.894 (U)		3.28	1.91
2/10/2022	0 (U)				0.268 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.88	<1.88	3.42	1.49	<1.88	<1.88	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0804 (U)	0.301 (U)			
6/7/2016		0.158 (U)			0.0191 (U)	0.347	
7/27/2016		0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)		
7/28/2016						0.815 (U)	
8/30/2016	1.09						
9/16/2016		1.04		0.915 (U)			
9/19/2016			1.58		0.826 (U)	0.862 (U)	
11/2/2016					0.791 (U)		
11/3/2016		0.314 (U)	0.342 (U)	0.928 (U)		0.797 (U)	
12/15/2016	1 (U)						
1/11/2017		0.34 (U)	0.365 (U)	0.502 (U)			
1/13/2017					0.296 (U)	0.72 (U)	
2/24/2017	0.504 (U)						
3/1/2017			0.395 (U)	0.202 (U)			
3/2/2017		0.746 (U)					
3/6/2017					0.518 (U)	0.518 (U)	
4/26/2017			0.507 (U)	0.264 (U)	0.282 (U)	1.13 (U)	
5/2/2017		0.111 (U)					
5/8/2017	0.455 (U)						
6/28/2017			0.892	0.636 (U)			
6/29/2017		0.576 (U)			1.12	0.841 (U)	
7/11/2017	0.471 (U)						
10/10/2017	0.649 (U)						
10/11/2017							0.586 (U)
11/20/2017							0.816 (U)
1/11/2018							0.841 (U)
2/20/2018							1.58
3/28/2018		0.438 (U)	0.92 (U)	0.56 (U)			
3/29/2018					1.73	1.91	
4/2/2018	0.512 (U)						
4/3/2018							0.385 (U)
6/5/2018						1.39	
6/6/2018					0.694 (U)		
6/7/2018			0.668 (U)				
6/11/2018		0.901 (U)		0.649 (U)			
6/28/2018							0.283 (U)
8/7/2018							0.332 (U)
9/19/2018	0.789 (U)						
9/24/2018							0.767 (U)
9/25/2018		0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)	1.62	
3/5/2019		0.272 (U)		0.474 (U)	0.84 (U)	0.985 (U)	
3/6/2019			0.714 (U)				
4/2/2019		0.847 (U)				1.42	
4/3/2019			0.385 (U)	0.429 (U)	1.01		
8/20/2019	2.44						
8/21/2019							1.01 (U)
9/24/2019						1.35	
9/25/2019		0.412 (U)			1.18 (U)		
9/26/2019			0.386 (U)	0.222 (U)			
10/8/2019	1.72						1.02 (U)
2/11/2020		0.461 (U)	1.48	0.597 (U)			
2/12/2020					1.11 (U)	1.61	0.45 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/17/2020	1.22 (U)						
3/24/2020		0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)	
3/25/2020							0.377 (U)
8/27/2020	1.26 (U)						
9/22/2020	1.06 (U)						
9/23/2020		0.466 (U)	0.887 (U)	0.43 (U)			
9/24/2020					0.611 (U)	1.8	0.568 (U)
2/9/2021		0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)	1.24	
2/10/2021							0.518 (U)
3/1/2021	1.2						
3/3/2021		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)	1.2	
3/4/2021							0.636 (U)
8/19/2021	1.07 (U)						
8/26/2021				0.686 (U)			0.674 (U)
8/27/2021		0.9 (U)	0.761 (U)		0.779 (U)		
9/1/2021						1.86	
2/8/2022	0.4 (U)						0.834
2/9/2022		0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)	1.94	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.721	5.11	0.614	
7/26/2016		1.26	6.92	1.47	
8/31/2016					1.2
9/14/2016		0.901 (U)	3.96	1.27	
11/2/2016		1.09 (U)	4.53		
11/4/2016				0.434 (U)	
11/28/2016					0.264 (U)
1/12/2017			4.43	0.202 (U)	
1/13/2017		1.19			
2/22/2017					1.06 (U)
3/6/2017		0.669 (U)			
3/7/2017			4.8	0.0674 (U)	
5/1/2017		0.803 (U)	4.16		
5/2/2017				0.444 (U)	
5/8/2017					0.187 (U)
6/27/2017			2.8	0.77 (U)	
6/29/2017		1.35			
7/17/2017					1.42
10/12/2017	1.49				
10/16/2017					1.17
11/20/2017	0.918 (U)				
1/10/2018	1.05				
2/19/2018	2.05				1.58 (D)
3/29/2018		0.703 (U)	3.42	0.648 (U)	
4/3/2018	0.68 (U)				
6/6/2018			3.99		
6/7/2018		0.628 (U)		0.745 (U)	
6/28/2018	1.28				
8/6/2018					0.196 (U)
8/7/2018	1.16				
9/24/2018	0.965 (U)				
9/26/2018		0.756 (U)	2.73	0.377 (U)	
3/4/2019		1.21 (U)	4.43	1 (U)	
4/3/2019		1.07 (U)	4.79	0.43 (U)	
8/19/2019					1.39
8/21/2019	1.24 (U)				
9/24/2019			4.06	0.699 (U)	
9/25/2019		1.86			
10/8/2019	0.866 (U)				1.32 (U)
2/12/2020	1.83	1.25	4.02	0.913 (U)	
3/17/2020					1 (U)
3/24/2020	1.27 (U)		3.52		
3/25/2020		0.766 (U)			
8/26/2020					1.75
9/22/2020		0.795 (U)	2.98	0.428 (U)	0.688 (U)
9/24/2020	0.634 (U)				
2/8/2021			2.89	0.613 (U)	
2/9/2021		0.626 (U)			
2/10/2021	0.783 (U)				
3/2/2021			1.67	0.579 (U)	0.948 (U)
3/3/2021		1			
3/4/2021	0.818 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/20/2021					0.528 (U)
8/26/2021		1.17 (U)	4.68	0.798 (U)	
9/3/2021	0.971 (U)				
2/8/2022	0.534 (U)				0.462 (U)
2/10/2022			3.33	0.375 (U)	
2/11/2022		0.996			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.12 (J)	<0.1				0.15 (J)
6/2/2016	<0.1				<0.1	0.62	
7/25/2016			0.06 (J)		0.06 (J)		0.14 (J)
7/26/2016	0.02 (J)	0.08 (J)				0.49	
9/13/2016		0.11 (J)	<0.1				
9/14/2016				0.08 (J)			0.18 (J)
9/15/2016	<0.1					0.54	
9/19/2016					<0.1		
11/1/2016		<0.1			<0.1	0.68	<0.1
11/2/2016	<0.1						
11/4/2016			<0.1	<0.1			
12/15/2016				0.06 (J)			
1/10/2017	<0.1						
1/11/2017		0.05 (J)				0.49	0.09 (J)
1/16/2017			<0.1	0.1 (J)	<0.1		
2/21/2017					<0.1		
3/1/2017							<0.1
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	0.08 (J)
4/27/2017		0.04 (J)	0.01 (J)				
4/28/2017				0.06 (J)			
5/26/2017				0.09 (J)			
6/27/2017		<0.1	<0.1				
6/28/2017				0.11 (J)		0.47	0.12 (J)
6/30/2017	<0.1				<0.1		
10/3/2017		<0.1	<0.1	<0.1			
10/4/2017					<0.1	<0.1	<0.1
10/5/2017	<0.1						
3/27/2018	<0.1		<0.1		<0.1		
3/28/2018				0.31		0.56	<0.1
3/29/2018		<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						0.2 (J)
6/11/2018					<0.1		
10/1/2018	<0.1	<0.1	<0.1	<0.1		0.44	<0.1
10/2/2018					<0.1		
2/26/2019	<0.1				<0.1		
2/27/2019		0.052 (J)	<0.1	0.12 (J)		0.53	0.13 (J)
3/28/2019		0.036 (J)	<0.1				
3/29/2019	<0.1			0.13 (J)			
4/1/2019					<0.1	0.45	0.1 (J)
9/24/2019		0.063 (J)	<0.1	0.081 (J)			
9/25/2019	<0.1				<0.1	0.46	0.1 (J)
2/10/2020		0.061 (J)	<0.1				
2/11/2020				0.075 (J)			0.094 (J)
2/12/2020	<0.1				<0.1	0.4	
3/18/2020	<0.1		<0.1				
3/19/2020		0.064 (J)		0.093 (J)	<0.1	0.51	0.11 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		0.058 (J)	<0.1	0.08 (J)		0.47	0.098 (J)
9/24/2020					<0.1		
9/25/2020	<0.1						
2/10/2021	<0.1			0.094 (J)		0.43	<0.1
2/11/2021					<0.1		
2/12/2021		0.068 (J)	<0.1				
3/1/2021					<0.1		
3/2/2021	<0.1						
3/3/2021		0.078 (J)	<0.1	0.085 (J)		0.44	0.1
8/19/2021	<0.1	0.074 (J)	<0.1		<0.1	0.47	
8/27/2021				0.12			0.12
2/9/2022		0.057 (J)	<0.1	0.094 (J)		0.43	0.097 (J)
2/10/2022	<0.1						
2/11/2022					<0.1		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.1	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.1 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
2/23/2017			<0.1 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.1 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.1 (*)		<0.1 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.1 (*)			<0.1 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.1	0.49			<0.1
3/30/2018	<0.1	0.35			<0.1	<0.1	
6/11/2018							<0.1
6/12/2018				0.037 (J)	<0.1	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.1				
10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
10/3/2018					<0.1	0.31	
2/27/2019	<0.1	<0.1	<0.1	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.1	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.1	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.1	<0.1			
6/7/2016		<0.1			<0.1	<0.1	
7/27/2016		<0.1	<0.1	<0.1	<0.1		
7/28/2016						0.02 (J)	
8/30/2016	0.09 (J)						
9/16/2016		<0.1		<0.1			
9/19/2016			<0.1		<0.1	0.02 (J)	
11/2/2016					<0.1		
11/3/2016		<0.1	<0.1	<0.1		<0.1	
11/14/2016	0.18 (J)						
1/11/2017		<0.1	<0.1	<0.1			
1/13/2017					<0.1	<0.1	
2/24/2017	0.05 (J)						
3/1/2017			<0.1	<0.1			
3/2/2017		<0.1					
3/6/2017					<0.1	<0.1	
4/26/2017			<0.1	<0.1	<0.1	0.04 (J)	
5/2/2017		<0.1					
5/8/2017	0.03 (J)						
6/28/2017			<0.1	<0.1			
6/29/2017		<0.1			<0.1	<0.1	
7/11/2017	0.07 (J)						
10/3/2017						<0.1	
10/4/2017		<0.1		<0.1	<0.1		
10/5/2017			<0.1				
10/10/2017	<0.1						
10/11/2017							<0.1
11/20/2017							<0.1
1/11/2018							<0.1
2/20/2018							0.23
3/28/2018		<0.1	<0.1	<0.1			
3/29/2018					<0.1	<0.1	
4/2/2018	<0.1						
4/3/2018							<0.1
6/5/2018						0.13 (J)	
6/6/2018					<0.1		
6/7/2018			<0.1				
6/11/2018		<0.1		<0.1			
6/28/2018							<0.1
8/7/2018							0.048 (J)
9/19/2018	<0.1						
9/24/2018							<0.1
9/25/2018		<0.1	<0.1	<0.1	<0.1	0 (J)	
3/5/2019		<0.1		<0.1	<0.1	0.32	
3/6/2019			<0.1				
3/27/2019	0.081 (J)						<0.1
4/2/2019		<0.1				0.12 (J)	
4/3/2019			<0.1	<0.1	<0.1		
8/20/2019	<0.1						
8/21/2019							<0.1
9/24/2019						0.15 (J)	
9/25/2019		<0.1			<0.1		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			<0.1	<0.1			
10/8/2019	0.034 (J)						
10/9/2019							<0.1
2/11/2020		<0.1	<0.1	<0.1			
2/12/2020					<0.1	0.1 (J)	<0.1
3/17/2020	<0.1						
3/24/2020		<0.1	<0.1	<0.1	<0.1	0.081 (J)	
3/25/2020							<0.1
8/27/2020	<0.1						
9/22/2020	<0.1						
9/23/2020		<0.1	<0.1	<0.1			
9/24/2020					<0.1	0.079 (J)	<0.1
2/9/2021			<0.1	<0.1	<0.1	0.092 (J)	
2/10/2021							<0.1
3/1/2021	<0.1						
3/3/2021		<0.1	<0.1	<0.1	<0.1		
3/4/2021						0.091 (J)	<0.1
8/19/2021	<0.1						
8/26/2021				<0.1			0.063 (J)
8/27/2021		<0.1	<0.1		<0.1		
9/1/2021						0.11	
2/8/2022	<0.1						0.052 (J)
2/9/2022		<0.1	<0.1	<0.1	<0.1	0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.1	0.11 (J)	<0.1	
7/26/2016		<0.1	0.05 (J)	<0.1	
8/31/2016					0.14 (J)
9/14/2016		<0.1	0.04 (J)	<0.1	
11/2/2016		<0.1	<0.1		
11/4/2016				<0.1	
11/28/2016					0.12 (J)
1/12/2017			0.04 (J)	<0.1	
1/13/2017		<0.1			
2/22/2017					0.09 (J)
3/6/2017		<0.1			
3/7/2017			<0.1	<0.1	
5/1/2017		<0.1	<0.1		
5/2/2017				<0.1	
5/8/2017					0.05 (J)
6/27/2017			<0.1	<0.1	
6/29/2017		<0.1			
7/17/2017					0.14 (J)
10/3/2017			<0.1	<0.1	
10/5/2017		<0.1			
10/12/2017	<0.1				
10/16/2017					0.12 (J)
11/20/2017	<0.1				
1/10/2018	<0.1				
2/19/2018	<0.1				0.17
3/29/2018		<0.1	<0.1	<0.1	
4/3/2018	<0.1				
6/6/2018			0.15 (J)		
6/7/2018		<0.1		<0.1	
6/28/2018	<0.1				
8/6/2018					0.087 (J)
8/7/2018	<0.1				
9/24/2018	<0.1				
9/26/2018		<0.1	<0.1	<0.1	
2/25/2019					0.14 (J)
3/4/2019		<0.1	0.19 (J)	<0.1	
3/26/2019	<0.1				
4/3/2019		<0.1	0.047 (J)	<0.1	
6/12/2019					0.12 (J)
8/19/2019					<0.1
8/21/2019	<0.1				
9/24/2019			0.05 (J)	<0.1	
9/25/2019		<0.1			
10/8/2019					0.052 (J)
10/9/2019	<0.1				
2/12/2020	<0.1	<0.1	<0.1	<0.1	
3/17/2020					0.053 (J)
3/24/2020	<0.1		<0.1	<0.1	
3/25/2020		<0.1			
8/26/2020					0.068 (J)
9/22/2020		<0.1	0.056 (J)	<0.1	0.058 (J)
9/24/2020	<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2021			0.055 (J)	<0.1	
2/9/2021		<0.1			
2/10/2021	<0.1				
3/2/2021			<0.1	<0.1	0.073 (J)
3/3/2021		<0.1			
3/4/2021	<0.1				
8/20/2021					0.06 (J)
8/26/2021		<0.1	0.061 (J)	<0.1	
9/3/2021	<0.1				
2/8/2022	<0.1				0.064 (J)
2/10/2022			0.055 (J)	<0.1	
2/11/2022		<0.1			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.00056 (J)	<0.001				<0.001
6/2/2016	<0.001				<0.001	0.00056 (J)	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		0.0001 (J)	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					0.0002 (J)	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
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	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		4.9E-05 (J)	<0.001				
2/11/2020				<0.001			<0.001
2/12/2020	<0.001				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		0.00012 (J)		<0.001	<0.001	0.00017 (J)	<0.001
9/23/2020		<0.001	0.00021 (J)	0.0011 (J)		<0.001	0.00015 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	4.8E-05 (J)			0.00015 (J)		<0.001	<0.001
2/11/2021					4.6E-05 (J)		
2/12/2021		4.4E-05 (J)	0.00038 (J)				
3/1/2021					<0.001		
3/2/2021	<0.001						
3/3/2021		5.6E-05 (J)	<0.001	<0.001		<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001		<0.001	<0.001	
8/27/2021				<0.001			<0.001
2/9/2022		<0.001	<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 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	<0.001 (*)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	<0.001			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	0.0002 (J)			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			<0.001
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		<0.001
2/23/2017			<0.001				
5/3/2017		<0.001 (*)					
5/5/2017					<0.001	<0.001 (*)	
5/8/2017	<0.001		<0.001	<0.001			<0.001
6/30/2017			<0.001	<0.001			
7/5/2017					<0.001		<0.001
7/7/2017						7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	<0.001	6.2E-05 (J)	<0.001	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)			<0.001	7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		<0.001	8.5E-05 (J)			<0.001
9/24/2020	<0.001	6.4E-05 (J)	<0.001	0.00037 (J)	<0.001	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	<0.001	0.00072 (J)			
2/11/2021					<0.001		
2/12/2021						5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)					
3/3/2021	<0.001		<0.001	<0.001	<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001					
8/20/2021	<0.001		<0.001	0.00096 (J)	<0.001	<0.001	<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001			<0.001	<0.001	
7/27/2016		<0.001	<0.001	<0.001	<0.001		
7/28/2016						<0.001	
8/30/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001		<0.001	<0.001	
11/2/2016					0.0013 (J)		
11/3/2016		<0.001	<0.001	<0.001		<0.001	
11/14/2016	<0.001						
1/11/2017		<0.001	<0.001	<0.001			
1/13/2017					<0.001	<0.001	
2/24/2017	<0.001						
3/1/2017			<0.001	<0.001			
3/2/2017		8E-05 (J)					
3/6/2017					<0.001	<0.001	
4/26/2017			<0.001	<0.001	<0.001	<0.001	
5/2/2017		<0.001					
5/8/2017	<0.001						
6/28/2017			<0.001	0.0001 (J)			
6/29/2017		8E-05 (J)			<0.001	<0.001	
7/11/2017	<0.001						
10/10/2017	<0.001						
10/11/2017							0.0001 (J)
11/20/2017							<0.001
1/11/2018							0.0002 (J)
2/20/2018							<0.001
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<0.001	<0.001	
4/2/2018	<0.001						
4/3/2018							<0.001
6/28/2018							<0.001
8/7/2018							<0.001
9/19/2018	<0.001						
9/24/2018							<0.001
3/5/2019		<0.001		<0.001	<0.001	<0.001	
3/6/2019			<0.001				
4/2/2019		<0.001				<0.001	
4/3/2019			<0.001	<0.001	<0.001		
8/20/2019	<0.001						
8/21/2019							<0.001
9/24/2019						<0.001	
9/25/2019		<0.001			<0.001		
9/26/2019			<0.001	<0.001			
10/9/2019							<0.001
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020					<0.001	<0.001	<0.001
3/24/2020		6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.001	
3/25/2020							5.1E-05 (J)
8/27/2020	<0.001						
9/22/2020	<0.001						
9/23/2020		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/24/2020					9.2E-05 (J)	4.6E-05 (J)	<0.001
2/9/2021			5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)	<0.001	
2/10/2021							<0.001
3/1/2021	<0.001						
3/3/2021		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)		
3/4/2021						<0.001	<0.001
8/19/2021	<0.001						
8/26/2021				<0.001			<0.001
8/27/2021		<0.001	<0.001		<0.001		
9/1/2021						<0.001	
2/8/2022	<0.001						<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.001	<0.001	<0.001	
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016					<0.001
9/14/2016		<0.001	<0.001	<0.001	
11/2/2016		<0.001	<0.001		
11/4/2016				<0.001	
11/28/2016					<0.001
1/12/2017			<0.001	<0.001	
1/13/2017		<0.001			
2/22/2017					<0.001
3/6/2017		<0.001			
3/7/2017			0.0001 (J)	7E-05 (J)	
5/1/2017		<0.001	<0.001		
5/2/2017				<0.001	
5/8/2017					<0.001
6/27/2017			<0.001	<0.001	
6/29/2017		<0.001			
7/17/2017					<0.001
10/12/2017	9E-05 (J)				
10/16/2017					<0.001
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
6/12/2019					<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.001
8/21/2019	<0.001				
9/24/2019			<0.001	9E-05 (J)	
9/25/2019		<0.001			
10/8/2019					<0.001
10/9/2019	<0.001				
2/12/2020	<0.001	<0.001	<0.001	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		5.4E-05 (J)	6.8E-05 (J)	
3/25/2020		<0.001			
8/26/2020					<0.001
9/22/2020		<0.001	4.5E-05 (J)	4.2E-05 (J)	0.0001 (J)
9/24/2020	3.8E-05 (J)				
2/8/2021			0.00013 (J)	3.7E-05 (J)	
2/9/2021		<0.001			
2/10/2021	<0.001				
3/2/2021			5.1E-05 (J)	9.2E-05 (J)	<0.001
3/3/2021		<0.001			
3/4/2021	<0.001				
8/20/2021					<0.001
8/26/2021		<0.001	<0.001	<0.001	
9/3/2021	<0.001				
2/8/2022	<0.001				<0.001
2/10/2022			<0.001	<0.001	
2/11/2022		<0.001			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.015	<0.03				0.01
6/2/2016	<0.03				<0.03	0.018	
7/25/2016			0.002 (J)		<0.03		0.0132 (J)
7/26/2016	<0.03	0.0135 (J)				0.0221 (J)	
9/13/2016		0.0112 (J)	<0.03				
9/14/2016				0.004 (J)			0.012 (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)	0.0115 (J)
11/2/2016	<0.03						
11/4/2016			<0.03	<0.03			
12/15/2016				0.0026 (J)			
1/10/2017	<0.03						
1/11/2017		0.0166 (J)				0.0177 (J)	0.0085 (J)
1/16/2017			0.0023 (J)	0.0023 (J)	<0.03		
2/21/2017					<0.03		
3/1/2017							0.0114 (J)
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)	0.0092 (J)
4/27/2017		0.0137 (J)	0.0027 (J)				
4/28/2017				0.0031 (J)			
5/26/2017				0.0038 (J)			
6/27/2017		0.0094 (J)	0.0024 (J)				
6/28/2017				0.0026 (J)		0.0173 (J)	0.0085 (J)
6/30/2017	<0.03				<0.03		
3/27/2018	<0.03		0.0023 (J)		0.0011 (J)		
3/28/2018				0.0025 (J)		0.02 (J)	0.013 (J)
3/29/2018		0.0078 (J)					
6/5/2018		0.0079 (J)					
6/6/2018			0.0024 (J)				
6/7/2018				0.0017 (J)		0.02 (J)	
6/8/2018	<0.03						0.012 (J)
6/11/2018					0.0012 (J)		
10/1/2018	<0.03	0.0053 (J)	0.0023 (J)	<0.03		0.02 (J)	0.011 (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)	0.014 (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)	0.013 (J)
9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)			
9/25/2019	<0.03				0.0011 (J)	0.02 (J)	0.01 (J)
2/10/2020		0.011 (J)	0.0023 (J)				
2/11/2020				0.0012 (J)			0.013 (J)
2/12/2020	<0.03				0.0013 (J)	0.019 (J)	
3/18/2020	<0.03		0.0024 (J)				
3/19/2020		0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)	0.014 (J)
9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)	0.013 (J)
9/24/2020					0.0011 (J)		
9/25/2020	<0.03						

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.03			0.0039 (J)		0.023 (J)	0.015 (J)
2/11/2021					0.0012 (J)		
2/12/2021		0.01 (J)	0.0025 (J)				
3/1/2021					0.0011 (J)		
3/2/2021	<0.03						
3/3/2021		0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)	0.017 (J)
8/19/2021	<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)	
8/27/2021				0.0058 (J)			0.026 (J)
2/9/2022		0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)	0.021 (J)
2/10/2022	<0.03						
2/11/2022					0.0014 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	<0.03	0.0067	<0.03			
6/9/2016					0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	<0.03	0.008 (J)	<0.03			
8/2/2016					0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	<0.03	0.0111 (J)	<0.03			
9/21/2016					0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	<0.03	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.03	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017				<0.03			0.0055 (J)
2/21/2017	0.0067 (J)	<0.03				<0.03	
2/22/2017				<0.03	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (J)				
5/3/2017		<0.03					
5/5/2017					0.007 (J)	<0.03	
5/8/2017	0.007 (J)		0.0086 (J)	<0.03			0.0066 (J)
6/30/2017			0.0108 (J)	<0.03			
7/5/2017					0.0072 (J)		0.0058 (J)
7/7/2017						<0.03	
7/10/2017	0.0064 (J)	<0.03					
3/29/2018			0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)	<0.03			0.007 (J)	<0.03	
6/11/2018							0.0064 (J)
6/12/2018				<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	<0.03	0.014 (J)				
10/2/2018	0.0064 (J)	<0.03	0.012 (J)	<0.03			0.006 (J)
10/3/2018					0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	<0.03	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019			0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)	<0.03				<0.03	
9/25/2019	0.0073 (J)	<0.03					0.0057 (J)
9/26/2019			0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	<0.03	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020		<0.03			0.007 (J)	<0.03	
3/20/2020	0.0072 (J)		0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	<0.03	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	<0.03	0.0067 (J)	0.00081 (J)			
2/11/2021					0.007 (J)		
2/12/2021						0.0053 (J)	<0.03
3/2/2021		<0.03					
3/3/2021	0.0077 (J)		0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/19/2021		<0.03					
8/20/2021	0.0079 (J)		0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022				<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	<0.03	0.0072 (J)				

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0088	0.015			
6/7/2016		<0.03			<0.03	0.0055	
7/27/2016		<0.03	0.0087 (J)	0.0049 (J)	<0.03		
7/28/2016						0.0045 (J)	
8/30/2016	0.0061 (J)						
9/16/2016		<0.03		0.0031 (J)			
9/19/2016			0.0043 (J)		<0.03	0.0054 (J)	
11/2/2016					<0.03		
11/3/2016		<0.03	<0.03	0.0021 (J)		<0.03	
11/14/2016	0.0064 (J)						
1/11/2017		0.0035 (J)	0.0052 (J)	0.0025 (J)			
1/13/2017					<0.03	0.0062 (J)	
2/24/2017	0.0049 (J)						
3/1/2017			0.0053 (J)	0.0029 (J)			
3/2/2017		<0.03					
3/6/2017					<0.03	0.0059 (J)	
4/26/2017			0.0041 (J)	0.0019 (J)	<0.03	0.0054 (J)	
5/2/2017		<0.03					
5/8/2017	0.0053 (J)						
6/28/2017			0.0039 (J)	0.0016 (J)			
6/29/2017		<0.03			<0.03	0.0047 (J)	
7/11/2017	0.0051 (J)						
10/10/2017	0.0043 (J)						
10/11/2017							0.0018 (J)
11/20/2017							0.0018 (J)
1/11/2018							0.0019 (J)
2/20/2018							<0.03
3/28/2018		<0.03	0.0041 (J)	0.0024 (J)			
3/29/2018					<0.03	0.0062 (J)	
4/2/2018	0.0045 (J)						
4/3/2018							0.0022 (J)
6/5/2018						0.0061 (J)	
6/6/2018					<0.03		
6/7/2018			0.0032 (J)				
6/11/2018		<0.03		0.0014 (J)			
6/28/2018							0.0026 (J)
8/7/2018							0.0024 (J)
9/19/2018	0.0043 (J)						
9/24/2018							0.0022 (J)
9/25/2018		<0.03	0.0036 (J)	0.0016 (J)	<0.03	0.0062 (J)	
3/5/2019		<0.03		0.0031 (J)	<0.03	0.0053 (J)	
3/6/2019			0.0033 (J)				
4/2/2019		<0.03				0.0051 (J)	
4/3/2019			0.0035 (J)	0.0028 (J)	<0.03		
8/20/2019	0.0036 (J)						
8/21/2019							0.0035 (J)
9/24/2019						0.0068 (J)	
9/25/2019		<0.03			<0.03		
9/26/2019			0.0032 (J)	0.0029 (J)			
10/8/2019	0.0036 (J)						
10/9/2019							0.0036 (J)
2/11/2020		<0.03	0.0033 (J)	0.005 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.03	0.0065 (J)	0.0041 (J)
3/17/2020	0.0046 (J)						
3/24/2020		0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)	
3/25/2020							0.0049 (J)
8/27/2020	0.0039 (J)						
9/22/2020	0.0036 (J)						
9/23/2020		<0.03	0.003 (J)	0.0022 (J)			
9/24/2020					<0.03	0.0069 (J)	0.0054 (J)
2/9/2021			0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)	
2/10/2021							0.0071 (J)
3/1/2021	0.0037 (J)						
3/3/2021		<0.03	0.0034 (J)	0.0021 (J)	<0.03		
3/4/2021						0.0062 (J)	0.0084 (J)
8/19/2021	0.0038 (J)						
8/26/2021				0.0019 (J)			0.0082 (J)
8/27/2021		<0.03	0.0032 (J)		<0.03		
9/1/2021						0.0057 (J)	
2/8/2022	0.0039 (J)						0.008 (J)
2/9/2022		<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)	0.0061 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.013	0.0049 (J)	<0.03	
7/26/2016		0.0123 (J)	0.0063 (J)	0.0027 (J)	
8/31/2016					<0.03
9/14/2016		0.0137 (J)	0.0058 (J)	0.0029 (J)	
11/2/2016		0.0136 (J)	0.0053 (J)		
11/4/2016				<0.03	
11/28/2016					<0.03
1/12/2017			0.0054 (J)	0.0032 (J)	
1/13/2017		0.0121 (J)			
2/22/2017					<0.03
3/6/2017		0.0143 (J)			
3/7/2017			0.0056 (J)	0.0035 (J)	
5/1/2017		0.0132 (J)	0.0031 (J)		
5/2/2017				0.0031 (J)	
5/8/2017					0.0014 (J)
6/27/2017			0.0018 (J)	0.0029 (J)	
6/29/2017		0.0145 (J)			
7/17/2017					<0.03
10/12/2017	<0.03				
10/16/2017					0.0016 (J)
11/20/2017	<0.03				
1/10/2018	<0.03				
2/19/2018	<0.03				<0.03
3/29/2018		0.014 (J)	0.0058 (J)	0.0034 (J)	
4/3/2018	<0.03				
6/6/2018			0.0068 (J)		
6/7/2018		0.013 (J)		0.0032 (J)	
6/28/2018	<0.03				
8/6/2018					<0.03
8/7/2018	<0.03				
9/24/2018	<0.03				
9/26/2018		0.014 (J)	0.0065 (J)	0.0032 (J)	
3/4/2019		0.015 (J)	0.0065 (J)	0.0032 (J)	
4/3/2019		0.014 (J)	0.007 (J)	0.0035 (J)	
8/19/2019					0.0019 (J)
8/21/2019	<0.03				
9/24/2019			0.0065 (J)	0.0031 (J)	
9/25/2019		0.014 (J)			
10/8/2019					0.0015 (J)
10/9/2019	<0.03				
2/12/2020	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)	
3/17/2020					0.0017 (J)
3/24/2020	<0.03		0.0064 (J)	0.0033 (J)	
3/25/2020		0.014 (J)			
8/26/2020					0.0032 (J)
9/22/2020		0.013 (J)	0.0066 (J)	0.0034 (J)	0.0029 (J)
9/24/2020	<0.03				
2/8/2021			0.0063 (J)	0.0032 (J)	
2/9/2021		0.011 (J)			
2/10/2021	<0.03				
3/2/2021			0.0018 (J)	0.0031 (J)	0.0033 (J)
3/3/2021		0.012 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2021	<0.03				
8/20/2021					0.0028 (J)
8/26/2021		0.0094 (J)	0.0075 (J)	0.0032 (J)	
9/3/2021	<0.03				
2/8/2022	0.00076 (J)				0.0031 (J)
2/10/2022			0.0076 (J)	0.0036 (J)	
2/11/2022		0.012 (J)			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0002	<0.0002				<0.0002
6/2/2016	<0.0002				<0.0002	<0.0002	
7/25/2016			<0.0002		<0.0002		<0.0002
7/26/2016	<0.0002	<0.0002				<0.0002	
9/13/2016		<0.0002	<0.0002				
9/14/2016				<0.0002			<0.0002
9/15/2016	<0.0002					<0.0002	
9/19/2016					<0.0002		
11/1/2016		<0.0002			<0.0002	<0.0002	<0.0002
11/2/2016	<0.0002						
11/4/2016			<0.0002	<0.0002			
12/15/2016				<0.0002			
1/10/2017	<0.0002						
1/11/2017		<0.0002				<0.0002	<0.0002
1/16/2017			<0.0002	<0.0002	<0.0002		
2/21/2017					<0.0002		
3/1/2017							<0.0002
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	<0.0002
4/27/2017		<0.0002	<0.0002				
4/28/2017				<0.0002			
5/26/2017				<0.0002			
6/27/2017		<0.0002	<0.0002				
6/28/2017				<0.0002		<0.0002	<0.0002
6/30/2017	<0.0002				<0.0002		
3/27/2018	<0.0002		<0.0002		<0.0002		
3/28/2018				<0.0002		<0.0002	<0.0002
3/29/2018		<0.0002					
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)	6.1E-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)	8.4E-05 (J)
9/24/2019		<0.0002	<0.0002	<0.0002			
9/25/2019	<0.0002				<0.0002	<0.0002	<0.0002
2/10/2020		<0.0002	<0.0002				
2/11/2020				<0.0002			<0.0002
2/12/2020	<0.0002				<0.0002	<0.0002	
2/10/2021	<0.0002			<0.0002		<0.0002	<0.0002
2/11/2021					<0.0002		
2/12/2021		<0.0002	<0.0002				
2/9/2022		<0.0002	<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 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0002	<0.0002			
6/7/2016		9.5E-05 (J)			9.6E-05 (J)	9.6E-05 (J)	
7/27/2016		<0.0002	<0.0002	<0.0002	<0.0002		
7/28/2016						<0.0002	
8/30/2016	<0.0002						
9/16/2016		<0.0002		<0.0002			
9/19/2016			<0.0002		<0.0002	<0.0002	
11/2/2016					<0.0002		
11/3/2016		<0.0002	<0.0002	<0.0002		<0.0002	
11/14/2016	<0.0002						
1/11/2017		<0.0002	<0.0002	<0.0002			
1/13/2017					<0.0002	<0.0002	
2/24/2017	<0.0002						
3/1/2017			<0.0002	<0.0002			
3/2/2017		<0.0002					
3/6/2017					<0.0002	<0.0002	
4/26/2017			<0.0002	<0.0002	<0.0002	<0.0002	
5/2/2017		<0.0002					
5/8/2017	<0.0002						
6/28/2017			<0.0002	<0.0002			
6/29/2017		<0.0002			<0.0002	<0.0002	
7/11/2017	<0.0002						
10/10/2017	<0.0002						
10/11/2017							<0.0002
11/20/2017							7E-05 (J)
1/11/2018							<0.0002
2/20/2018							<0.0002
3/28/2018		<0.0002	<0.0002	<0.0002			
3/29/2018					<0.0002	<0.0002	
4/2/2018	<0.0002						
4/3/2018							<0.0002
6/28/2018							<0.0002
8/7/2018							<0.0002
9/19/2018	5.3E-05 (J)						
9/24/2018							<0.0002
9/25/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/5/2019		<0.0002		<0.0002	<0.0002	<0.0002	
3/6/2019			<0.0002				
8/20/2019	<0.0002						
8/21/2019							<0.0002
2/11/2020		<0.0002	<0.0002	<0.0002			
2/12/2020					<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002						
2/9/2021			<0.0002	<0.0002	<0.0002	<0.0002	
2/10/2021							<0.0002
3/3/2021		<0.0002	<0.0002	<0.0002	<0.0002		
3/4/2021						<0.0002	<0.0002
8/19/2021	<0.0002						
8/26/2021				<0.0002			<0.0002
8/27/2021		<0.0002	<0.0002		<0.0002		
9/1/2021						<0.0002	
2/8/2022	<0.0002						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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)
6/2/2016		<0.0002	<0.0002	<0.0002	
7/26/2016		<0.0002	<0.0002	<0.0002	
8/31/2016					<0.0002
9/14/2016		<0.0002	<0.0002	<0.0002	
11/2/2016		<0.0002	<0.0002		
11/4/2016				<0.0002	
11/28/2016					<0.0002
1/12/2017			<0.0002	<0.0002	
1/13/2017		<0.0002			
2/22/2017					<0.0002
3/6/2017		<0.0002			
3/7/2017			<0.0002	<0.0002	
5/1/2017		<0.0002	<0.0002		
5/2/2017				<0.0002	
5/8/2017					<0.0002
6/27/2017			<0.0002	<0.0002	
6/29/2017		<0.0002			
7/17/2017					<0.0002
10/12/2017	<0.0002				
10/16/2017					<0.0002
11/20/2017	8E-05 (J)				
1/10/2018	<0.0002				
2/19/2018	<0.0002				<0.0002
3/29/2018		<0.0002	<0.0002	<0.0002	
4/3/2018	<0.0002				
6/28/2018	3.6E-05 (J)				
8/6/2018					<0.0002
8/7/2018	<0.0002				
9/24/2018	<0.0002				
9/26/2018		<0.0002	<0.0002	<0.0002	
2/25/2019					7.4E-05 (J)
3/4/2019		<0.0002	<0.0002	<0.0002	
6/12/2019					<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.0002
8/21/2019	<0.0002				
10/8/2019					<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	
5/6/2020					<0.0002
8/26/2020					<0.0002
9/22/2020					<0.0002
2/8/2021			<0.0002	<0.0002	
2/9/2021		<0.0002			
2/10/2021	<0.0002				
3/2/2021			<0.0002	<0.0002	<0.0002
3/3/2021		<0.0002			
3/4/2021	<0.0002				
8/20/2021					<0.0002
8/26/2021		<0.0002	<0.0002	<0.0002	
9/3/2021	0.00012 (J)				
2/8/2022	0.00013 (J)				<0.0002
2/10/2022			<0.0002	<0.0002	
2/11/2022		<0.0002			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.014 (J)	0.012 (J)				0.0055 (J)
6/2/2016	<0.01				<0.01	0.0093 (J)	
7/25/2016			0.0098 (J)		<0.01		0.0037 (J)
7/26/2016	<0.01	0.0132				0.0113	
9/13/2016		0.0127	0.01 (J)				
9/14/2016				0.0039 (J)			0.0034 (J)
9/15/2016	<0.01					0.0112	
9/19/2016					<0.01		
11/1/2016		0.0092 (J)			<0.01	0.0099 (J)	0.0025 (J)
11/2/2016	<0.01						
11/4/2016			0.01	0.0077 (J)			
12/15/2016				0.0066 (J)			
1/10/2017	<0.01						
1/11/2017		0.0093 (J)				0.0093 (J)	0.0033 (J)
1/16/2017			0.0086 (J)	0.0056 (J)	<0.01		
2/21/2017					<0.01		
3/1/2017							0.0044 (J)
3/2/2017		0.0099 (J)	0.01			0.0103	
3/3/2017				0.0049 (J)			
3/8/2017	<0.01						
4/26/2017	<0.01				<0.01	0.01	0.0075 (J)
4/27/2017		0.0103	0.0101				
4/28/2017				0.004 (J)			
5/26/2017				0.0029 (J)			
6/27/2017		0.0097 (J)	0.0093 (J)				
6/28/2017				0.0036 (J)		0.0102	0.008 (J)
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		0.0074 (J)		<0.01		
3/28/2018				0.0038 (J)		0.011	0.0025 (J)
3/29/2018		0.0076 (J)					
6/5/2018		0.0092 (J)					
6/6/2018			0.0073 (J)				
6/7/2018				0.004 (J)		0.011	
6/8/2018	<0.01						0.0041 (J)
6/11/2018					<0.01		
10/1/2018	<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012	0.0037 (J)
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	0.0027 (J)
3/28/2019		0.0092 (J)	0.0082 (J)				
3/29/2019	<0.01			0.0041 (J)			
4/1/2019					<0.01	0.012	0.0021 (J)
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)			
9/25/2019	<0.01				<0.01	0.012	0.0087 (J)
2/10/2020		0.0087 (J)	0.0062 (J)				
2/11/2020				0.0057 (J)			0.003 (J)
2/12/2020	<0.01				<0.01	0.013	
3/18/2020	<0.01		0.0056 (J)				
3/19/2020		0.0088 (J)		0.0046 (J)	<0.01	0.013	0.0043 (J)
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)		0.012	0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.01			0.0041 (J)		0.014	0.0038 (J)
2/11/2021					<0.01		
2/12/2021		0.008 (J)	0.0056 (J)				
3/1/2021					<0.01		
3/2/2021	<0.01						
3/3/2021		0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013	0.0036 (J)
8/19/2021	<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013	
8/27/2021				0.0048 (J)			0.0099 (J)
2/9/2022		0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013	0.0087 (J)
2/10/2022	<0.01						
2/11/2022					<0.01		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.01	<0.01	0.0011 (J)	<0.01			
6/9/2016					0.0011 (J)	<0.01	<0.01
8/1/2016	<0.01	<0.01	0.0018 (J)	<0.01			
8/2/2016					0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01	<0.01	<0.01	<0.01			
9/21/2016					<0.01	<0.01	<0.01
11/7/2016	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	<0.01	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	<0.01	<0.01				<0.01	
2/22/2017				<0.01	<0.01		<0.01
2/23/2017			<0.01				
5/3/2017		<0.01					
5/5/2017					0.0014 (J)	0.0007 (J)	
5/8/2017	<0.01		0.0011 (J)	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					0.0014 (J)		<0.01
7/7/2017						<0.01	
7/10/2017	<0.01	<0.01					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
6/11/2018							<0.01
6/12/2018				<0.01	<0.01	<0.01	
6/13/2018	<0.01	<0.01	<0.01				
10/2/2018	<0.01	<0.01	<0.01	<0.01			<0.01
10/3/2018					<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	<0.01	<0.01				<0.01	
9/25/2019	<0.01	<0.01					<0.01
9/26/2019			0.0013 (J)	<0.01	0.0013 (J)	<0.01	
2/13/2020	<0.01	<0.01	0.0014 (J)	<0.01	0.0013 (J)	<0.01	<0.01
3/19/2020		<0.01			0.0014 (J)	<0.01	
3/20/2020	<0.01		0.0014 (J)	<0.01			<0.01
9/24/2020	<0.01	<0.01	0.0015 (J)	<0.01	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	<0.01	<0.01	0.0016 (J)	<0.01			
2/11/2021					0.0012 (J)		
2/12/2021						<0.01	0.00083 (J)
3/2/2021		<0.01					
3/3/2021	<0.01		0.0017 (J)	<0.01	0.0011 (J)	0.00083 (J)	<0.01
8/19/2021		<0.01					
8/20/2021	<0.01		0.0042 (J)	<0.01	0.001 (J)	<0.01	<0.01
2/8/2022				<0.01	0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	<0.01	<0.01	0.0018 (J)				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.01	<0.01			
6/7/2016		<0.01			<0.01	<0.01	
7/27/2016		<0.01	<0.01	<0.01	<0.01		
7/28/2016						<0.01	
8/30/2016	<0.01						
9/16/2016		<0.01		<0.01			
9/19/2016			<0.01		<0.01	<0.01	
11/2/2016					<0.01		
11/3/2016		<0.01	<0.01	<0.01		<0.01	
11/14/2016	<0.01						
1/11/2017		<0.01	<0.01	<0.01			
1/13/2017					<0.01	<0.01	
2/24/2017	<0.01						
3/1/2017			<0.01	<0.01			
3/2/2017		<0.01					
3/6/2017					<0.01	0.0007 (J)	
4/26/2017			<0.01	<0.01	<0.01	0.0008 (J)	
5/2/2017		<0.01					
5/8/2017	<0.01						
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01			<0.01	<0.01	
7/11/2017	<0.01						
10/10/2017	<0.01						
10/11/2017							0.0094 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0074 (J)
2/20/2018							<0.01
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					<0.01	<0.01	
4/2/2018	<0.01						
4/3/2018							0.006 (J)
6/28/2018							0.005 (J)
8/7/2018							0.0045 (J)
9/19/2018	<0.01						
9/24/2018							0.0035 (J)
3/5/2019		<0.01		<0.01	<0.01	<0.01	
3/6/2019			<0.01				
8/20/2019	<0.01						
8/21/2019							0.0021 (J)
10/8/2019	<0.01						
10/9/2019							0.0018 (J)
2/11/2020		<0.01	<0.01	<0.01			
2/12/2020					<0.01	<0.01	0.0025 (J)
3/17/2020	<0.01						
3/24/2020		<0.01	<0.01	<0.01	<0.01	<0.01	
3/25/2020							0.002 (J)
8/27/2020	<0.01						
9/22/2020	<0.01						
9/23/2020		<0.01	<0.01	<0.01			
9/24/2020					<0.01	<0.01	0.0016 (J)
2/9/2021			<0.01	<0.01	<0.01	<0.01	
2/10/2021							0.0013 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/1/2021	<0.01						
3/3/2021		<0.01	<0.01	<0.01	<0.01		
3/4/2021						<0.01	0.0014 (J)
8/19/2021	<0.01						
8/26/2021				<0.01			0.0027 (J)
8/27/2021		<0.01	<0.01		<0.01		
9/1/2021						<0.01	
2/8/2022	<0.01						0.0035 (J)
2/9/2022		<0.01	<0.01	<0.01	<0.01	<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.01	0.0035 (J)	<0.01	
7/26/2016		<0.01	0.0042 (J)	<0.01	
8/31/2016					<0.01
9/14/2016		<0.01	0.0041 (J)	<0.01	
11/2/2016		<0.01	0.0039 (J)		
11/4/2016				<0.01	
11/28/2016					<0.01
1/12/2017			0.0041 (J)	<0.01	
1/13/2017		<0.01			
2/22/2017					<0.01
3/6/2017		<0.01			
3/7/2017			0.0047 (J)	<0.01	
5/1/2017		<0.01	0.0045 (J)		
5/2/2017				<0.01	
5/8/2017					<0.01
6/27/2017			0.004 (J)	<0.01	
6/29/2017		<0.01			
7/17/2017					<0.01
10/12/2017	<0.01				
10/16/2017					<0.01
11/20/2017	<0.01				
1/10/2018	<0.01				
2/19/2018	<0.01				<0.01
3/29/2018		<0.01	<0.01	<0.01	
4/3/2018	<0.01				
6/28/2018	<0.01				
8/6/2018					<0.01
8/7/2018	<0.01				
9/24/2018	<0.01				
3/4/2019		<0.01	<0.01	<0.01	
8/19/2019					<0.01
8/21/2019	<0.01				
10/9/2019	<0.01				
2/12/2020	<0.01	<0.01	0.0011 (J)	<0.01	
3/24/2020	<0.01		0.0011 (J)	<0.01	
3/25/2020		<0.01			
8/26/2020					<0.01
9/22/2020		<0.01	0.00099 (J)	<0.01	
9/24/2020	<0.01				
2/8/2021			0.0011 (J)	<0.01	
2/9/2021		<0.01			
2/10/2021	<0.01				
3/2/2021			<0.01	<0.01	
3/3/2021		<0.01			
3/4/2021	<0.01				
8/20/2021					<0.01
8/26/2021		<0.01	0.001 (J)	<0.01	
9/3/2021	<0.01				
2/8/2022	<0.01				<0.01
2/10/2022			0.00096 (J)	<0.01	
2/11/2022		<0.01			

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		7.46	6.33				7.72
6/2/2016	5.46				5.75	7.84	
7/25/2016			6.21		5.82		7.74
7/26/2016	5.45	7.43				7.88	
9/13/2016		7.44	6.16	7.41			
9/14/2016							7.65
9/15/2016	5.45					7.74	
9/19/2016					5.78 (D)		
11/1/2016		7.24			5.62	7.75	7.7
11/2/2016	5.41						
11/4/2016			6.29	7.12			
12/15/2016				7.24			
1/10/2017	5.37						
1/11/2017		7.3				7.66	7.53
1/16/2017			6.29	7.24	5.72		
2/21/2017					5.67		
3/1/2017							7.42
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	7.4
4/27/2017		6.99	6.09				
4/28/2017				7.21			
5/26/2017				7.13			
6/27/2017		6.87	6.21				
6/28/2017				7.06		7.65	7.5
6/30/2017	5.39				5.72		
10/3/2017		6.81	5.98	6.99			
10/4/2017					5.87	7.49	7.45
10/5/2017	5.49						
3/27/2018	5.47		6.25		5.83		
3/28/2018				7.3		7.91	7.74
3/29/2018		7.38					
6/5/2018		7.16					
6/6/2018			6.17				
6/7/2018				7.29		7.69	
6/8/2018	5.45						7.64
6/11/2018					5.69		
10/1/2018	5.39	6.8	5.9	7.07		7.39	7.47
10/2/2018					5.39		
2/26/2019	5.46				5.77		
2/27/2019		6.84	5.8	7.27		7.55	7.54
3/28/2019		6.99	6.15				
3/29/2019	5.34			7.06			
4/1/2019					5.62	7.87	7.74
9/24/2019		7.07	6.23	7.01			
9/25/2019	5.19				5.69	7.64	7.47
2/10/2020		7.2	6.1				
2/11/2020				7.38			7.09
2/12/2020	5.48				5.8	7.83	
3/18/2020	5.38		6.19				
3/19/2020		7.03		7.22	6	7.65	7.31

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		7.15	6.01	7.22		7.57	7.37
9/24/2020					5.67		
9/25/2020	5.44						
2/10/2021	5.35			7.29		7.81	7.58
2/11/2021					5.73		
2/12/2021		7.14	6.21				
3/1/2021					5.78		
3/2/2021	5.49						
3/3/2021		7.2	5.38	7.92		8.39	8.23
8/19/2021	7.32	6.32	6.38			5.34	
8/27/2021				7.14			7.39
2/9/2022		7.12	6.24	5.89		7.97	7.66
2/10/2022	4.5						
2/11/2022					5.59		

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	5.85	5.24	6.32	6.24			
6/9/2016					6.42	6.39	6.19
8/1/2016	5.83	5.17	6.34	6.12			
8/2/2016					6.43	6.35	6.17
9/20/2016	5.89	5.35	6.36	6.3			
9/21/2016					6.45	6.39	6.2
11/7/2016	5.91	5.35	6.3	6.25		6.36	6.1
11/8/2016					6.37		
1/18/2017	5.84	5.2	6.31		6.27	6.23	
1/19/2017				6.2			6.22
2/21/2017	5.79	5.14				6.42	
2/22/2017				6.14	6.35		6.12
2/23/2017			6.18				
5/3/2017		5.28					
5/5/2017					6.36	6.4	
5/8/2017	5.84		6.24	6.11			6.11
6/30/2017			6.21	6.17			
7/5/2017					6.4		6.17
7/7/2017						6.46	
7/10/2017	5.92	5.25					
10/5/2017					6.43		6.17
10/6/2017				6.13			
10/9/2017			6.26			6.37	
10/10/2017	5.84	5.17					
3/29/2018			6.36	6.25			6.09
3/30/2018	6.19	5.19			6.39	6.35	
6/11/2018							6.17
6/12/2018				6.22	6.42	6.47	
6/13/2018	5.82	5.12	6.28				
10/2/2018	5.81	4.95	5.9	5.99			6.17
10/3/2018					6.21	6.01	
2/27/2019	5.79	5	6.31	6.26	6.32	6.38	6.19
4/1/2019			6.43	6.4	6.3		6.03
4/2/2019	5.87	5.13				6.7	
9/25/2019	5.79	5.24					6.21
9/26/2019			6.3	6.22	6.43	6.47	
2/13/2020	5.93	5.29	6.4	6.31	6.49	6.53	6.32
3/19/2020		5.46			7.01	6.98	
3/20/2020	5.94		6.32	6.18			6.17
9/24/2020	5.86	5.46	6.36	6.27	6.41	6.53	6.2
2/10/2021	5.96	5.18	6.29	6.21			
2/11/2021					6.57		
2/12/2021						6.6	6.24
3/2/2021		5.38					
3/3/2021	5.93		6.43	6.35	6.51	6.61	6.27
8/19/2021		5.12					
8/20/2021	5.78		6.17	6.18	6.23	6.38	6.07
2/8/2022				6.22	6.34	6.3	5.88
2/10/2022	5.84	5.31	6.23				

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.17	5.71			
6/7/2016		5.62			5.77	6.1	
7/27/2016		5.59	6.14	5.46	5.79		
7/28/2016						6.12	
8/30/2016	5.75						
9/16/2016		5.58					
9/19/2016			6.04	5.59	5.73	6.12	
11/2/2016					5.67		
11/3/2016		5.59	5.97	5.39		6.07	
11/14/2016	5.59						
1/11/2017		5.59	6.05	5.48			
1/13/2017					5.79	6.41	
2/24/2017	5.49						
3/1/2017			5.94	5.41			
3/2/2017		5.54					
3/6/2017					5.63	6.34	
4/26/2017			5.99	5.4	5.66	6.32	
5/2/2017		5.47					
5/8/2017	5.58						
6/28/2017			6	5.36			
6/29/2017		5.56			5.85	6.47	
7/11/2017	5.58						
10/3/2017						6.56	
10/4/2017		5.57		5.32	5.83		
10/5/2017			6.11				
10/10/2017	5.49						
10/11/2017							6.4
11/20/2017							6.33
1/11/2018							6.29
2/20/2018							7.22
3/28/2018		5.59	6.1	5.34			
3/29/2018					5.93	6.75	
4/2/2018	6.3 (o)						
4/3/2018							6.87
6/5/2018						6.09	
6/6/2018					5.86		
6/7/2018			5.98				
6/11/2018		5.58		5.28			
6/28/2018							6.18
8/7/2018							6.08
9/19/2018	5.48						
9/24/2018							5.81
9/25/2018		5.59	5.81	4.86	5.84	6.67	
3/5/2019		5.48		5.26	6.07	7.22	
3/6/2019			5.99				
3/27/2019	5.83						5.84
4/2/2019		5.74				6.94	
4/3/2019			6.29	5.47	5.71		
8/20/2019	5.58						
8/21/2019							5.96
9/24/2019						6.87	
9/25/2019		5.49			5.86		

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			6.04	5.2			
10/8/2019	5.59						
10/9/2019							5.81
2/11/2020		5.58	6.07	5.3			
2/12/2020					6	7.13	5.97
3/17/2020	5.57						
3/24/2020		5.57	5.98	5.33	5.86	6.35	
3/25/2020							5.78
8/27/2020	4.88						
9/22/2020	5.46						
9/23/2020		5.58	6.01	5.29			
9/24/2020					5.8	6.7	5.7
2/9/2021			6.12	5.43	5.86	6.95	
2/10/2021							5.8
3/1/2021	5.48						
3/3/2021		5.52	5.89	5.31	5.89		
3/4/2021						6.8	5.54
8/19/2021	5.5						
8/26/2021				4.4			6.91
8/27/2021		5.27	5.4		5.57		
9/1/2021						6.65	
2/8/2022	5.4						5.78
2/9/2022		5.53	5.98	5.28	5.91	6.84	

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		6.36	7.67	5.75	
7/26/2016		6.22	7.66	5.72	
9/14/2016		6.23	7.6	5.74	
11/2/2016		6.08	7.35		
11/4/2016				5.61	
11/28/2016					6.23
1/12/2017			7.49	5.71	
1/13/2017		6.19			
2/22/2017					6.21
3/6/2017		6.2			
3/7/2017			7.43	5.66	
5/1/2017		6.21	7.22		
5/2/2017				5.65	
5/8/2017					6.12
6/27/2017			7.32	5.7	
6/29/2017		6.21			
7/17/2017					6.03
10/3/2017			7.48	5.79	
10/5/2017		6.16			
10/12/2017	5.43				
10/16/2017					6.12
11/20/2017	5.1				
1/10/2018	4.97				
2/19/2018	5.6				6.13
3/29/2018		6.09	7.02	5.63	
4/3/2018	5.84				
6/6/2018			7.43		
6/7/2018		6.12		5.63	
6/28/2018	5.24				
8/6/2018					6.01
8/7/2018	5.18				
9/24/2018	5.14				
9/26/2018		5.84	7.13	5.63	
2/25/2019					6.51
3/4/2019		6.18	7.46	5.75	
3/26/2019	5.3				
4/3/2019		6.43	7.11	5.63	
6/12/2019					6.3
8/19/2019					6.23

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	5.26				
9/24/2019			6.93	5.6	
9/25/2019		6.2			
10/8/2019					6.28
10/9/2019	5.22				
2/12/2020	5.3	6.15	7.52	5.83	
3/17/2020					6.14
3/24/2020	5.29		7.34	5.81	
3/25/2020		6.26			
5/6/2020					6.24
8/26/2020					5.67
9/22/2020		5.8	7.19	5.99	5.78
9/24/2020	5.43				
2/8/2021				5.67	
2/9/2021		6.06			
2/10/2021	5.19				
3/2/2021			7.15	5.63	5.42
3/3/2021		6.21			
3/4/2021	5.23				
8/20/2021					5.86
8/26/2021		5.82	7.16	5.51	
9/3/2021	4.75				
2/8/2022	5.26				5.83
2/10/2022			6.99	5.14	
2/11/2022		5.95			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	<0.005				<0.005
6/2/2016	0.0011 (J)				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	0.0016 (J)	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	0.0014 (J)					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	0.0012 (J)						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							<0.005
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	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	<0.005				
3/29/2019	0.0019 (J)			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		<0.005	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		<0.005	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		<0.005				
3/19/2020		<0.005		<0.005	<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<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						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<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 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0016	0.0003 (J)	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)	<0.005	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005	<0.005	<0.005			
9/21/2016					<0.005	0.001 (J)	<0.005
11/7/2016	0.0017 (J)	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	0.002 (J)	0.0012 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	0.0018 (J)	0.0014 (J)				<0.005	
2/22/2017				<0.005	0.0012 (J)		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	0.002 (J)	<0.005					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	0.0017 (J)	<0.005				<0.005	
9/25/2019	0.0019 (J)	<0.005					<0.005
9/26/2019			<0.005	<0.005	<0.005	<0.005	
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/19/2020		<0.005			<0.005	<0.005	
3/20/2020	0.0019 (J)		<0.005	<0.005			<0.005
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.0034 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	0.0026 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	<0.005			
6/7/2016		0.001 (J)			<0.005	0.00048 (J)	
7/27/2016		0.0012 (J)	<0.005	<0.005	<0.005		
7/28/2016						<0.005	
8/30/2016	0.0017 (J)						
9/16/2016		0.0015 (J)		<0.005			
9/19/2016			<0.005		<0.005	0.0014 (J)	
11/2/2016					<0.005		
11/3/2016		0.0015 (J)	<0.005	<0.005		<0.005	
11/14/2016	<0.005						
1/11/2017		0.0014 (J)	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	0.0011 (J)						
3/1/2017			<0.005	<0.005			
3/2/2017		0.0017 (J)					
3/6/2017					<0.005	<0.005	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005					
5/8/2017	<0.005						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	<0.005	
7/11/2017	<0.005						
10/10/2017	<0.005						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						<0.005	
6/6/2018					<0.005		
6/7/2018			<0.005				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	<0.005						
9/24/2018							0.0015 (J)
9/25/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
3/5/2019		<0.005		<0.005	<0.005	<0.005	
3/6/2019			<0.005				
4/2/2019		<0.005				<0.005	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	<0.005						
8/21/2019							<0.005
9/24/2019						<0.005	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/9/2019							<0.005
2/11/2020		<0.005	<0.005	<0.005			
2/12/2020					<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		<0.005	<0.005	<0.005	<0.005	<0.005	
3/25/2020							<0.005
8/27/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	<0.005	<0.005
2/9/2021			<0.005	<0.005	<0.005	<0.005	
2/10/2021							<0.005
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						<0.005	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	<0.005						<0.005
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		0.0009 (J)	<0.005	0.0009 (J)	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
3/6/2017		<0.005			
3/7/2017			<0.005	<0.005	
5/1/2017		<0.005	<0.005		
5/2/2017				<0.005	
5/8/2017					<0.005
6/27/2017			<0.005	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	0.0042 (J)				
1/10/2018	0.0043 (J)				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/6/2018			<0.005		
6/7/2018		<0.005		<0.005	
6/28/2018	0.0032 (J)				
8/6/2018					<0.005
8/7/2018	0.0031 (J)				
9/24/2018	0.0026 (J)				
9/26/2018		<0.005	<0.005	<0.005	
2/25/2019					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					<0.005
8/19/2019					<0.005
8/21/2019	0.0024 (J)				
9/24/2019			<0.005	<0.005	
9/25/2019		<0.005			
10/8/2019					<0.005
10/9/2019	0.0026 (J)				
2/12/2020	0.002 (J)	<0.005	<0.005	<0.005	
3/17/2020					<0.005
3/24/2020	0.002 (J)		<0.005	<0.005	
3/25/2020		<0.005			
8/26/2020					<0.005
9/22/2020		<0.005	<0.005	<0.005	<0.005
9/24/2020	0.0016 (J)				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		0.0019 (J)			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	<0.005	<0.005	
9/3/2021	<0.005				
2/8/2022	0.0014 (J)				<0.005
2/10/2022			<0.005	<0.005	
2/11/2022		<0.005			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		5	4.2				12
6/2/2016	6.6				1.3	5.8	
7/25/2016			3.7		1.2		8.4
7/26/2016	6.1	5.4				6.7	
9/13/2016		2.9	5.2				
9/14/2016				9.4			8.6
9/15/2016	6.1					6	
9/19/2016					1.2		
11/1/2016		3.9			1.3	4.9	8.9
11/2/2016	6.3						
11/4/2016			5	13			
12/15/2016				1.8			
1/10/2017	5.9						
1/11/2017		3.7				4.5	8.6
1/16/2017			7.9	11	<1		
2/21/2017					1.4		
3/1/2017							9.3
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	11
4/27/2017		5.2	7.4				
4/28/2017				10			
5/26/2017				12			
6/27/2017		5.9	6.4				
6/28/2017				11		5.4	12
6/30/2017	6.5				<1		
10/3/2017		6.6	5.9	7.9			
10/4/2017					1.4	6.2	12
10/5/2017	7.9						
6/5/2018		6.4					
6/6/2018			4.4				
6/7/2018				8.8		6.7	
6/8/2018	6.4						9.6
6/11/2018					1.1		
10/1/2018	6.8	5.6	4	9.1		7.1	9.1
10/2/2018					1		
3/28/2019		8	4.3				
3/29/2019	7.3			9			
4/1/2019					0.96 (J)	7.2	8.5
9/24/2019		5.3	4.3	9.1			
9/25/2019	6.6				0.81 (J)	7	13.8
3/18/2020	8.1		5.3				
3/19/2020		10		12.4	1.6	9	12.9
9/23/2020		8.1	3.4	11.8		6.9	16.8
9/24/2020					0.69 (J)		
9/25/2020	6.1						
3/1/2021					0.88 (J)		
3/2/2021	6						
3/3/2021		9	4.4	10.6		7	9.6
8/19/2021	6.7	8.9	4.9		1	7.5	
8/27/2021				16.7			18.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		9.3	5.1	18		7.2	16
2/10/2022	6.2						
2/11/2022					2.8		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	81	110	3.2	26			
6/9/2016					8.7	5.2	33
8/1/2016	75	96	3.6	27			
8/2/2016					7.5	4.5	32
9/20/2016	78	100	5.6	21			
9/21/2016					8	<1 (*)	32
11/7/2016	81	100	5.4	24		4.3	33
11/8/2016					8.3		
1/18/2017	95	100	3.5		8	2.7	
1/19/2017				25			32
2/21/2017	80	96				3	
2/22/2017				24	8.2		31
2/23/2017			4.9				
5/3/2017		100					
5/5/2017					<1 (*)	<1 (*)	
5/8/2017	84		3.9	23			32
6/30/2017			5	23			
7/5/2017					8.1		31
7/7/2017						2.7	
7/10/2017	84	100					
10/5/2017					8.6		31
10/6/2017				23			
10/9/2017			5.1			2.9	
10/10/2017	82	97					
6/11/2018							30.6
6/12/2018				18.1	8.2	2.9	
6/13/2018	76.5	93.3	6.1				
10/2/2018	83.9	99	6.1	20.2			30.8
10/3/2018					8	2.1	
4/1/2019			4.1	18.3	8.2		30.4
4/2/2019	77.6	94.5				2.4	
9/25/2019	80.1	97					30
9/26/2019			4.2	18.2	7.9	1.6	
3/19/2020		99.4			9.1	1.7	
3/20/2020	84.7		5.2	21.1			33
9/24/2020	85.6	92.3	3	16.6	7.2	0.99 (J)	26.2
3/2/2021		92.7					
3/3/2021	89.3		2.6	451	8.6	4.9	26.6
8/19/2021		86.5					
8/20/2021	84		2.9	18	8.9	5.4	24.7
2/8/2022				16.3	8.1	10.5	22.9
2/10/2022	81.8	86.5	2.4				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			1.2	1.8			
6/7/2016		4.4			<1	5.2	
7/27/2016		4.7	1.7	1.9	0.08 (J)		
7/28/2016						5.1	
8/30/2016	160						
9/16/2016		4.8		1.7			
9/19/2016			1.8		0.08 (J)	4.8	
11/2/2016					0.1 (J)		
11/3/2016		5.3	0.69 (J)	1.9		5	
11/14/2016	150						
1/11/2017		5.2	<1	1.7			
1/13/2017					<1	4.3	
2/24/2017	120						
3/1/2017			1.8	<1			
3/2/2017		5					
3/6/2017					<1	4.5	
4/26/2017			1.6	1.9	<1	4.9	
5/2/2017		5					
5/8/2017	120						
6/28/2017			<1	<1			
6/29/2017		5.2			<1	5.5	
7/11/2017	110						
10/3/2017						5.8	
10/4/2017		5.3		1.7	<1		
10/5/2017			1.6				
10/10/2017	93						
10/11/2017							20
11/20/2017							24
1/11/2018							23
2/20/2018							20.6
4/2/2018	88.8						
4/3/2018							24.5
6/5/2018						6.1	
6/6/2018					0.049 (J)		
6/7/2018			0.68 (J)				
6/11/2018		5.2		0.95 (J)			
6/28/2018							22
8/7/2018							20.7
9/19/2018	75						
9/24/2018							21.2
9/25/2018		6.1	1	1.5	0.13 (J)	7	
3/27/2019	65.9						17.7
4/2/2019		5.1				3.8	
4/3/2019			0.82 (J)	1.3	0.12 (J)		
9/24/2019						1	
9/25/2019		5.5			<1		
9/26/2019			0.64 (J)	1			
10/8/2019	52.3						
10/9/2019							15
3/17/2020	71.6						
3/24/2020		5.4	<1	0.99 (J)	<1	3	
3/25/2020							14.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	51.5						
9/23/2020		5.1	0.53 (J)	1.1			
9/24/2020					<1	3.6	11.7
3/1/2021	51.6						
3/3/2021		5.2	<1	1	<1		
3/4/2021						4.5	12
8/19/2021	52.6						
8/26/2021				1.2			19.2
8/27/2021		5.3	0.59 (J)		<1		
9/1/2021						5	
2/8/2022	50.9						14.6
2/9/2022		4.8	0.51 (J)	1.1	<1	3.9	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8	20	1.9	
7/26/2016		7.7	20	1.8	
8/31/2016					29
9/14/2016		7.5	19	1.8	
11/2/2016		8.2	20		
11/4/2016				2	
11/28/2016					36
1/12/2017			19	1.9	
1/13/2017		8.1			
2/22/2017					43
3/6/2017		8			
3/7/2017			20	2.1	
5/1/2017		8.4	20		
5/2/2017				2	
5/8/2017					60
6/27/2017			18	2.1	
6/29/2017		9.2			
7/17/2017					63
10/3/2017			16	2.3	
10/5/2017		9.6			
10/12/2017	17				
10/16/2017					62
11/20/2017	71				
1/10/2018	66				
2/19/2018	57.2				64.6
4/3/2018	49.4				
6/6/2018			8.3		
6/7/2018		8.5		2	
6/28/2018	43.8				
8/6/2018					42.1
8/7/2018	40.5				
9/24/2018	39.7				
9/26/2018		10.2	7.9	2.3	
2/25/2019					42.1
3/26/2019	34.3				
4/3/2019		8.5	7	2.1	
6/12/2019					83.4
9/24/2019			5.5	2.4	
9/25/2019		8.5			
10/8/2019					128
10/9/2019	27.9				
3/17/2020					98.6
3/24/2020	25.2		5.9	2.1	
3/25/2020		8.8			
9/22/2020		8.2	5.5	2.1	145
9/24/2020	22.9				
3/2/2021			2.6	2.3	156
3/3/2021		7.8			
3/4/2021	21.5				
8/20/2021					121
8/26/2021		8.5	6	2.4	
9/3/2021	21.3				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	17.9				107
2/10/2022			4.9	2.4	
2/11/2022		7.7			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.001	<0.001				<0.001
6/2/2016	<0.001				<0.001	<0.001	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		<0.001	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					<0.001	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
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	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		<0.001	5.5E-05 (J)				
2/11/2020				<0.001			<0.001
2/12/2020	8.9E-05 (J)				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/23/2020		<0.001	<0.001	<0.001		<0.001	0.00016 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	<0.001			<0.001		<0.001	<0.001
2/11/2021					<0.001		
2/12/2021		<0.001	<0.001				
2/9/2022		<0.001	<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 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	0.00012 (J)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	0.0001 (J)			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			<0.001
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		<0.001
2/23/2017			<0.001				
5/3/2017		<0.001					
5/5/2017					<0.001	<0.001	
5/8/2017	<0.001		<0.001	0.0001 (J)			<0.001
6/30/2017			<0.001	0.0001 (J)			
7/5/2017					<0.001		<0.001
7/7/2017						<0.001	
7/10/2017	<0.001	<0.001					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	5.7E-05 (J)	<0.001	0.0001 (J)	<0.001	<0.001	<0.001
3/19/2020		5.5E-05 (J)			<0.001	<0.001	
3/20/2020	<0.001		<0.001	0.00011 (J)			<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2021	<0.001	<0.001	<0.001	<0.001			
2/11/2021					<0.001		
2/12/2021						<0.001	<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001			<0.001	<0.001	
7/27/2016		<0.001	<0.001	<0.001	<0.001		
7/28/2016						<0.001	
8/30/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001		<0.001	<0.001	
11/2/2016					<0.001		
11/3/2016		<0.001	<0.001	<0.001		<0.001	
11/14/2016	<0.001						
1/11/2017		<0.001	<0.001	<0.001			
1/13/2017					<0.001	<0.001	
2/24/2017	<0.001						
3/1/2017			<0.001	<0.001			
3/2/2017		<0.001					
3/6/2017					<0.001	<0.001	
4/26/2017			<0.001	<0.001	<0.001	<0.001	
5/2/2017		<0.001					
5/8/2017	<0.001						
6/28/2017			<0.001	<0.001			
6/29/2017		<0.001			<0.001	<0.001	
7/11/2017	<0.001						
10/10/2017	<0.001						
10/11/2017							<0.001
11/20/2017							<0.001
1/11/2018							<0.001
2/20/2018							<0.001
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<0.001	<0.001	
4/2/2018	<0.001						
4/3/2018							<0.001
6/28/2018							<0.001
8/7/2018							<0.001
9/19/2018	<0.001						
9/24/2018							<0.001
9/25/2018						<0.001	
3/5/2019		<0.001		<0.001	<0.001	<0.001	
3/6/2019			<0.001				
4/2/2019		<0.001				<0.001	
4/3/2019			<0.001	<0.001	<0.001		
8/20/2019	5.8E-05 (J)						
8/21/2019							<0.001
9/24/2019						<0.001	
9/25/2019		<0.001			<0.001		
9/26/2019			<0.001	<0.001			
10/8/2019	8.4E-05 (J)						
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020					<0.001	<0.001	<0.001
3/17/2020	<0.001						
3/24/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
3/25/2020							<0.001
8/27/2020	<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/23/2020		<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	
2/10/2021							<0.001
8/19/2021	<0.001						
2/8/2022	<0.001						<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.001	<0.001	<0.001	
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016					<0.001
9/14/2016		<0.001	<0.001	<0.001	
11/2/2016		<0.001	<0.001		
11/4/2016				<0.001	
11/28/2016					<0.001
1/12/2017			<0.001	<0.001	
1/13/2017		<0.001			
2/22/2017					<0.001
3/6/2017		<0.001			
3/7/2017			<0.001	<0.001	
5/1/2017		<0.001	<0.001		
5/2/2017				<0.001	
5/8/2017					6E-05 (J)
6/27/2017			<0.001	<0.001	
6/29/2017		<0.001			
7/17/2017					6E-05 (J)
10/12/2017	<0.001				
10/16/2017					7E-05 (J)
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
6/12/2019					<0.001
8/19/2019					5.5E-05 (J)

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	<0.001				
9/24/2019			<0.001	<0.001	
9/25/2019		<0.001			
10/8/2019					<0.001
2/12/2020	<0.001	<0.001	<0.001	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		<0.001	<0.001	
3/25/2020		<0.001			
8/26/2020					<0.001
9/22/2020		<0.001	<0.001	<0.001	<0.001
9/24/2020	<0.001				
2/8/2021			<0.001	<0.001	
2/9/2021		<0.001			
2/10/2021	<0.001				
3/2/2021					<0.001
8/20/2021					<0.001
2/8/2022	<0.001				<0.001
2/10/2022			<0.001	<0.001	
2/11/2022		<0.001			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		120	54				150
6/2/2016	46				36	130	
7/25/2016			48		50		135
7/26/2016	54	94				141	
9/13/2016		105	67				
9/14/2016				152			127
9/15/2016	54					153	
9/19/2016					35		
11/1/2016		44			<25	92	75
11/2/2016	71						
11/4/2016			60	148			
12/15/2016				191			
1/10/2017	45						
1/11/2017		107				159	148
1/16/2017			65	180	47		
2/21/2017					<25		
3/1/2017							182
3/2/2017		98	61			117	
3/3/2017				156			
3/8/2017	178						
4/26/2017	52				55	181	92
4/27/2017		116	31				
4/28/2017				130			
5/26/2017				223			
6/27/2017		89	42				
6/28/2017				166		169	126
6/30/2017	45				42		
10/3/2017		119	58	153			
10/4/2017					31	141	147
10/5/2017	40						
6/5/2018		127					
6/6/2018			96				
6/7/2018				146		95	
6/8/2018	114						158
6/11/2018					59		
10/1/2018	50	117	60	155		165	138
10/2/2018					57		
3/28/2019		87	87				
3/29/2019	63			150			
4/1/2019					54	149	19 (J)
9/24/2019		124	54	146			
9/25/2019	64				51	157	159
3/18/2020	57		35				
3/19/2020		116		148	47	146	148
9/23/2020		108	15	161		157	155
9/24/2020					51		
9/25/2020	54						
3/1/2021					23		
3/2/2021	67						
3/3/2021		99	39	138		137	111
8/19/2021	54	105	44		50	144	
8/27/2021				150			155

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		105	57	156		154	145
2/10/2022	56						
2/11/2022					66		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	220	200	190	210			
6/9/2016					240	210	150
8/1/2016	211	191	191	209			
8/2/2016					226	202	155
9/20/2016	217	213	205	224			
9/21/2016					214	216	138
11/7/2016	301	284	264	291		399	291
11/8/2016					229		
1/18/2017	265 (D)	158 (D)	167 (D)		243 (D)	215 (D)	
1/19/2017				215 (D)			145 (D)
2/21/2017	158	137				198	
2/22/2017				262	310		185
2/23/2017			253				
5/3/2017		269					
5/5/2017					289	347	
5/8/2017	207		174	187			114
6/30/2017			193	209			
7/5/2017					217		136
7/7/2017						236	
7/10/2017	219	183					
10/5/2017					221		139
10/6/2017				183			
10/9/2017			185			204	
10/10/2017	194	179					
6/11/2018							156
6/12/2018				208	234	243	
6/13/2018	228	196	219				
10/2/2018	227	191	227	206			154
10/3/2018					232	237	
4/1/2019			198	221	238		147
4/2/2019	223	224				<25	
9/25/2019	225	190					162
9/26/2019			198	225	241	239	
3/19/2020		194			212	202	
3/20/2020	211		195	182			137
9/24/2020	212	171	186	185	209	226	133
3/2/2021		154					
3/3/2021	205		173	178	184	217	110
8/19/2021		176					
8/20/2021	224		196	169	194	192	110
2/8/2022				159	206	216	120
2/10/2022	207	168	190				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			120	58			
6/7/2016		28			38	60	
7/27/2016		74	94	35	74		
7/28/2016						81	
8/30/2016	319						
9/16/2016		67		35			
9/19/2016			92		45	68	
11/2/2016					53		
11/3/2016		41	104	48		61	
11/14/2016	280						
1/11/2017		104	133	95			
1/13/2017					46	76	
2/24/2017	162						
3/1/2017			119	79			
3/2/2017		77					
3/6/2017					164	167	
4/26/2017			162	36	34	50	
5/2/2017		142					
5/8/2017	194						
6/28/2017			98	45			
6/29/2017		53			68	94	
7/11/2017	193						
10/3/2017						149	
10/4/2017		61		45	54		
10/5/2017			104				
10/10/2017	175						
10/11/2017							68
11/20/2017							139
1/11/2018							153
2/20/2018							87
4/2/2018	192						
4/3/2018							85
6/5/2018						109	
6/6/2018					79		
6/7/2018			68				
6/11/2018		70		74			
6/28/2018							88
8/7/2018							89
9/19/2018	186						
9/24/2018							82
9/25/2018		86	109	63	73	122	
3/27/2019	170						75
4/2/2019		72				134	
4/3/2019			89	63	57		
9/24/2019						157	
9/25/2019		81			75		
9/26/2019			126	72			
10/8/2019	172						
10/9/2019							119
3/17/2020	165						
3/24/2020		71	91	59	76	117	
3/25/2020							158

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	141						
9/23/2020		99	103	81			
9/24/2020					69	113	170
3/1/2021	145						
3/3/2021		57	95	37	53		
3/4/2021						110	168
8/19/2021	134						
8/26/2021				31			249
8/27/2021		93	112		67		
9/1/2021						137	
2/8/2022	151						248
2/9/2022		81	103	60	72	131	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		96	160	66	
7/26/2016		92	177	78	
8/31/2016					209
9/14/2016		102	187	73	
11/2/2016		115	181		
11/4/2016				75	
11/28/2016					102
1/12/2017			202	86	
1/13/2017		67			
2/22/2017					164
3/6/2017		159			
3/7/2017			257	108	
5/1/2017		107	165		
5/2/2017				103	
5/8/2017					145
6/27/2017			189	73	
6/29/2017		79			
7/17/2017					185
10/3/2017			170	89	
10/5/2017		95			
10/12/2017	74				
10/16/2017					218
11/20/2017	179				
1/10/2018	140				
2/19/2018	119				173
4/3/2018	106				
6/6/2018			151		
6/7/2018		90		142	
6/28/2018	112				
8/6/2018					158
8/7/2018	103				
9/24/2018	107				
9/26/2018		116	144	86	
2/25/2019					92
3/26/2019	90				
4/3/2019		111	142	83	
6/12/2019					226
9/24/2019			129	79	
9/25/2019		117			
10/8/2019					276
10/9/2019	98				
3/17/2020					185
3/24/2020	84		139	68	
3/25/2020		146			
9/22/2020		83	104	75	281
9/24/2020	77				
3/2/2021			52	67	296
3/3/2021		80			
3/4/2021	57				
8/20/2021					254
8/26/2021		93	123	86	
9/3/2021	88				

Time Series

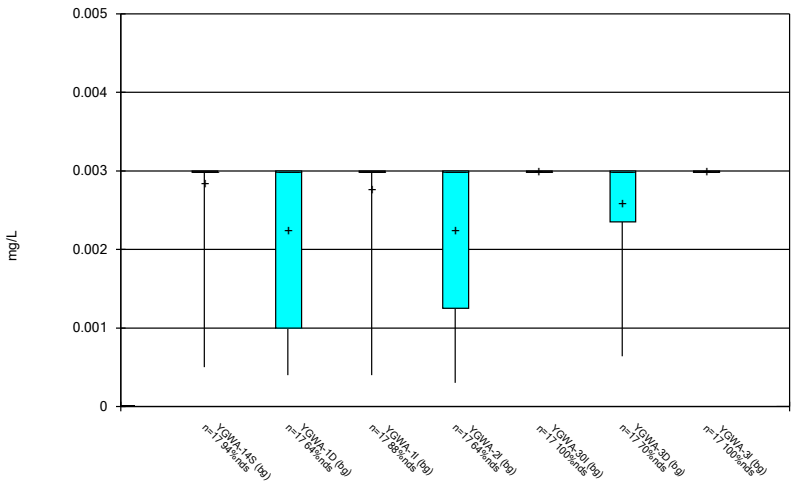
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	93				283
2/10/2022			127	77	
2/11/2022		102			

FIGURE B.

Box & Whiskers Plot

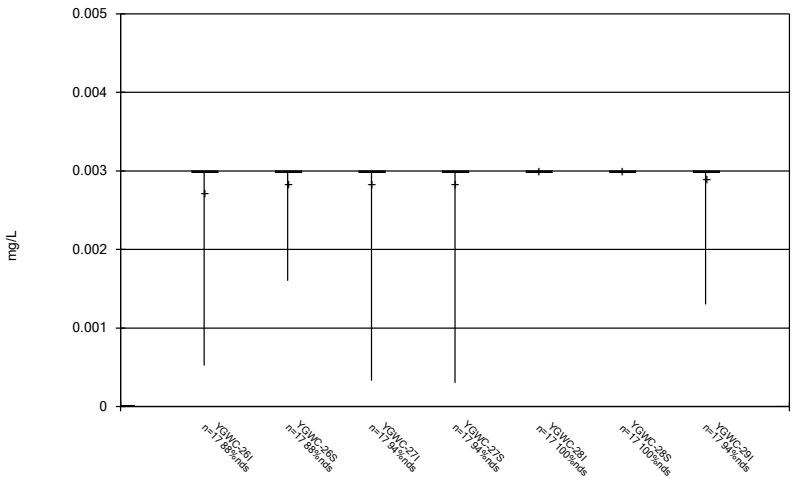


Constituent: Antimony Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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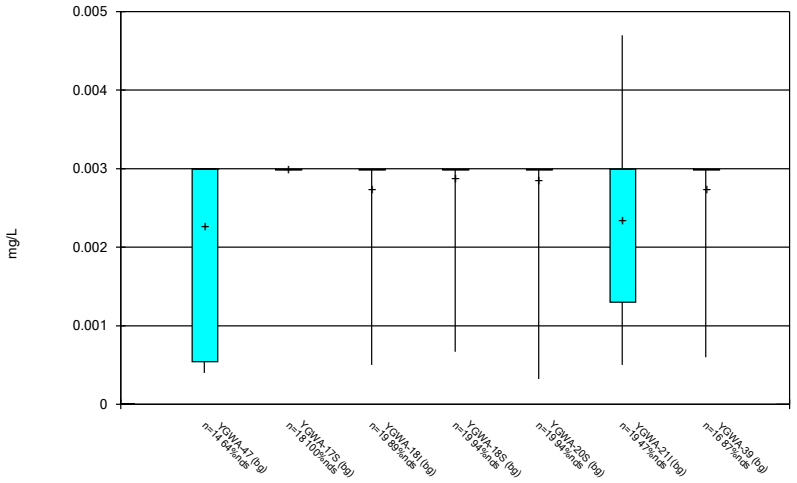
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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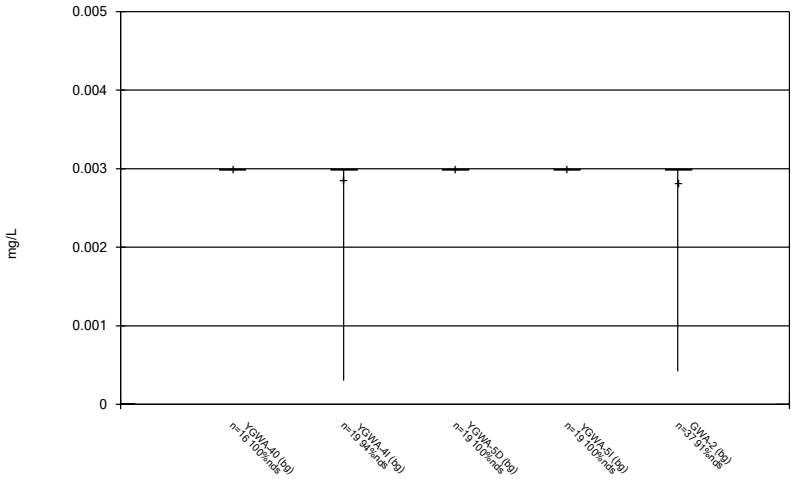
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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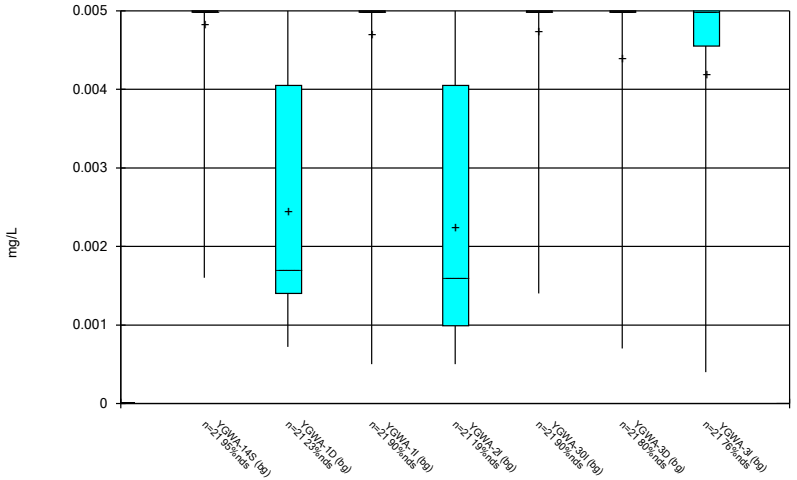
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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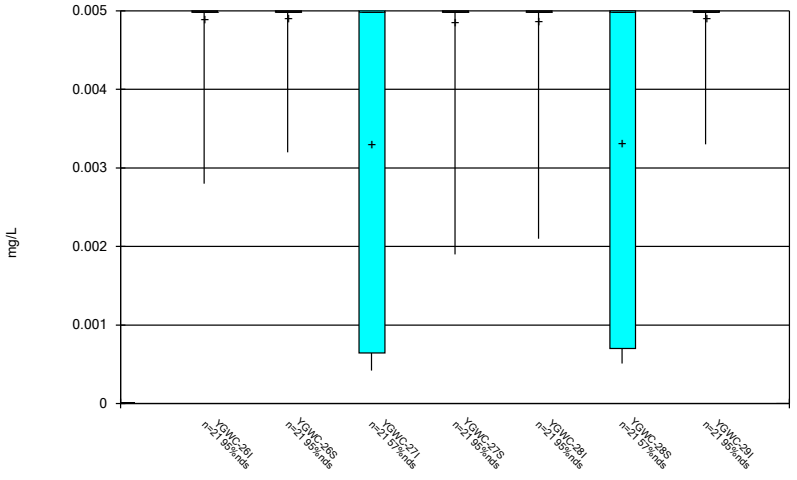
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

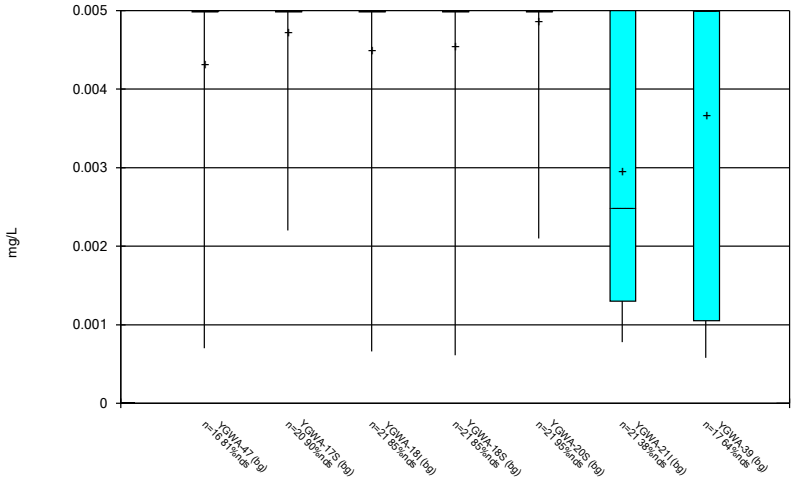


Constituent: Arsenic Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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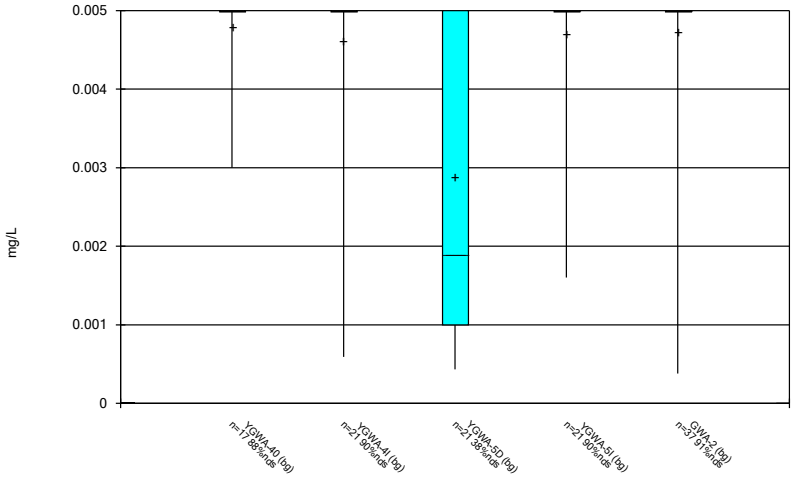
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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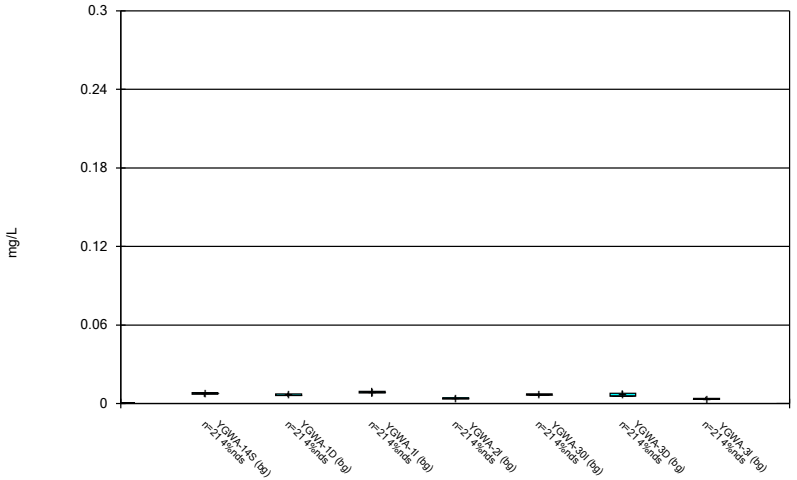
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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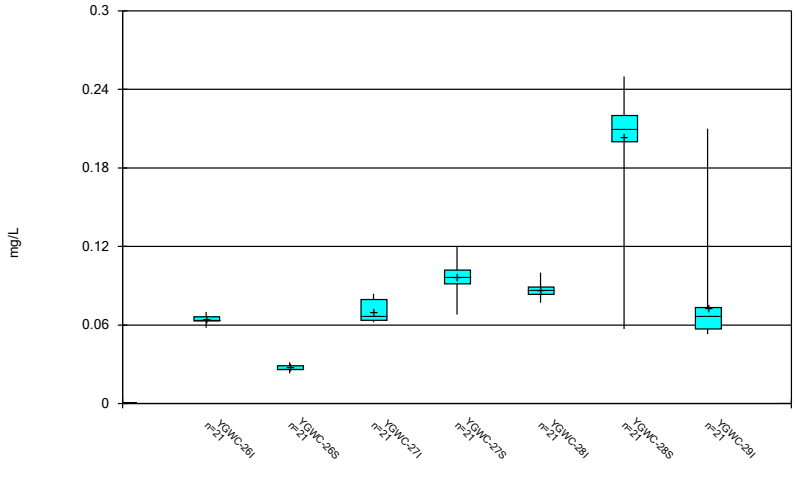
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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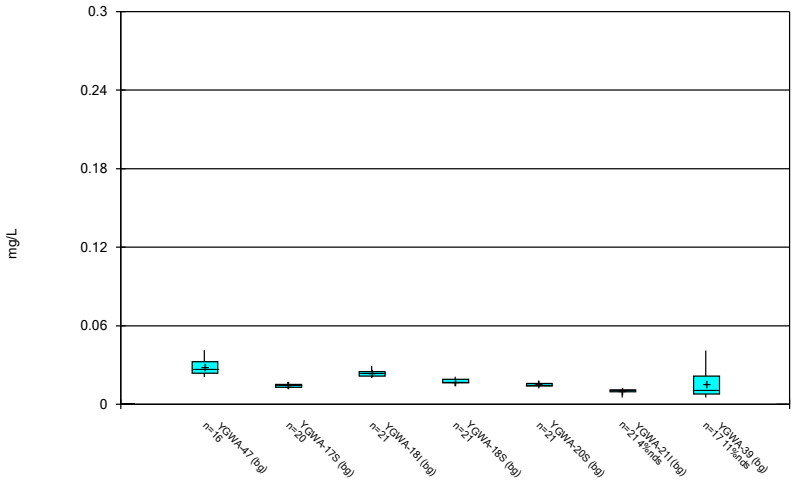
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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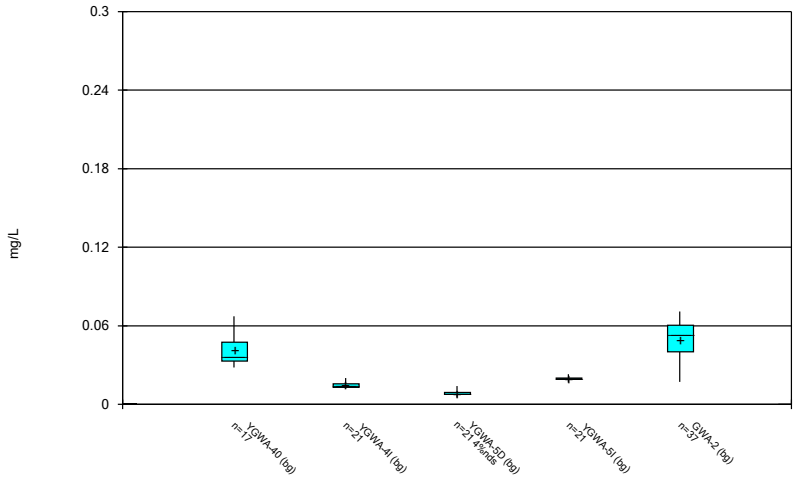
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

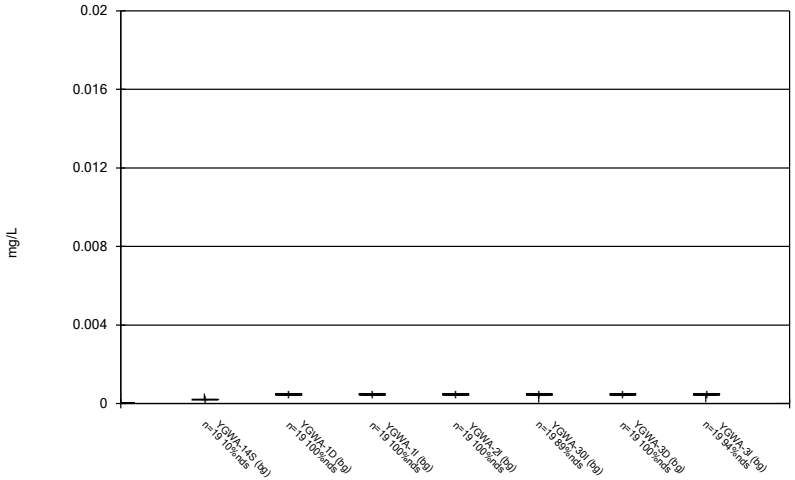
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

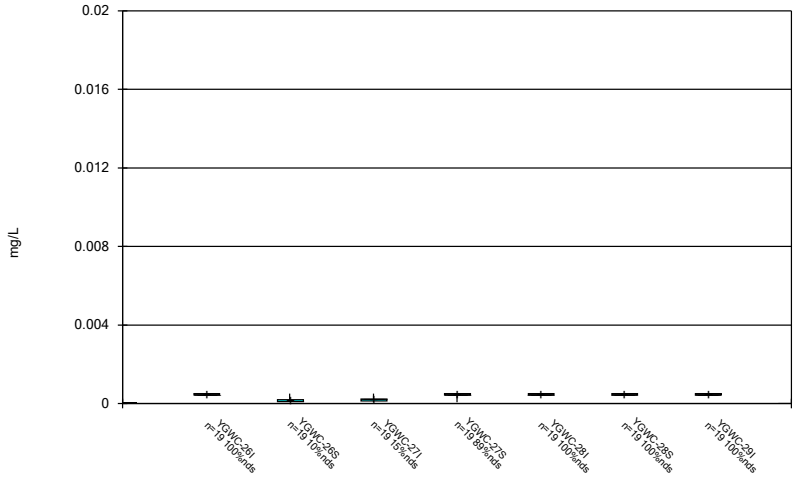


Constituent: Beryllium Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

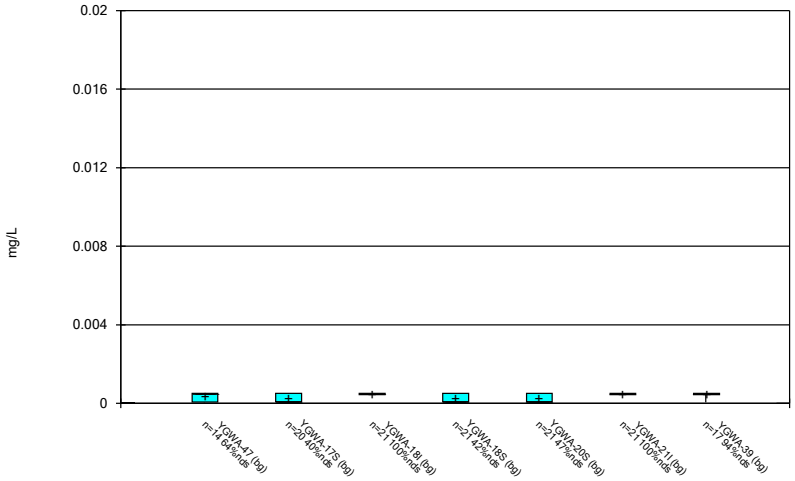


Constituent: Beryllium Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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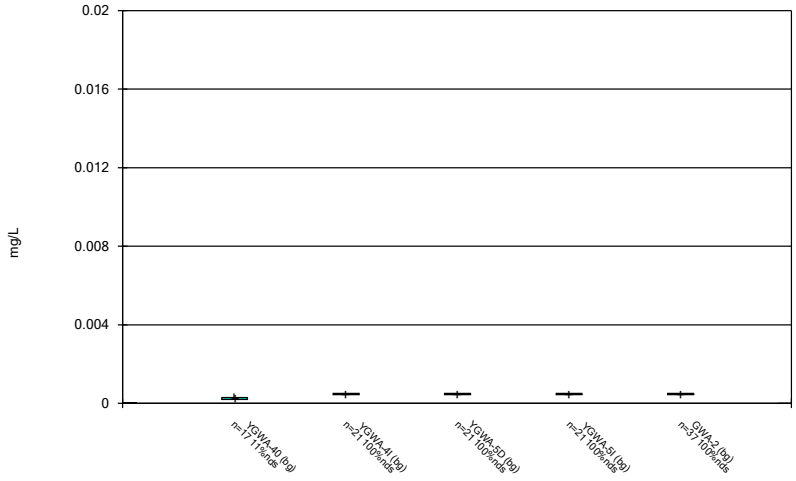
Box & Whiskers Plot



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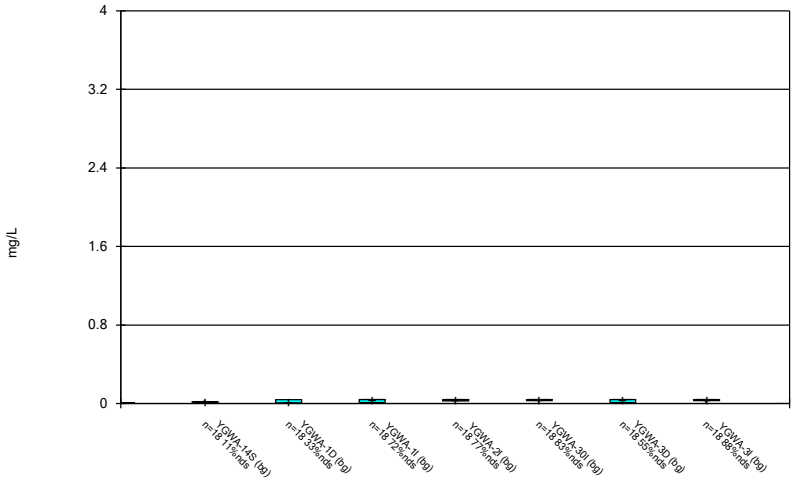
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

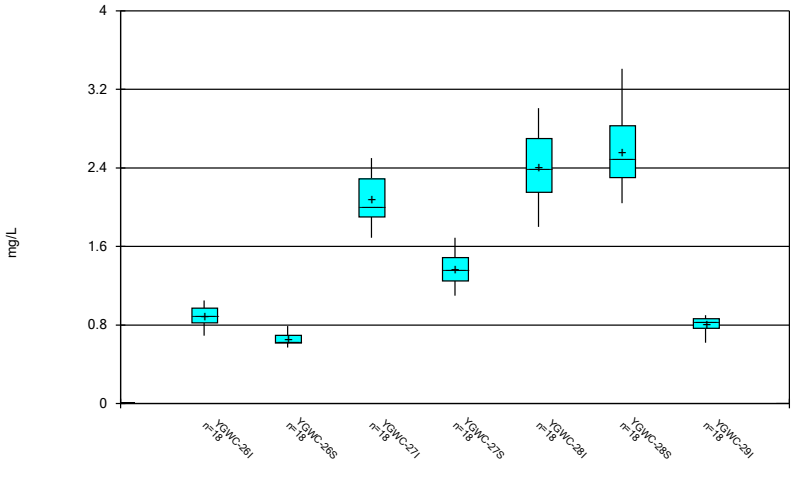


Constituent: Boron Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

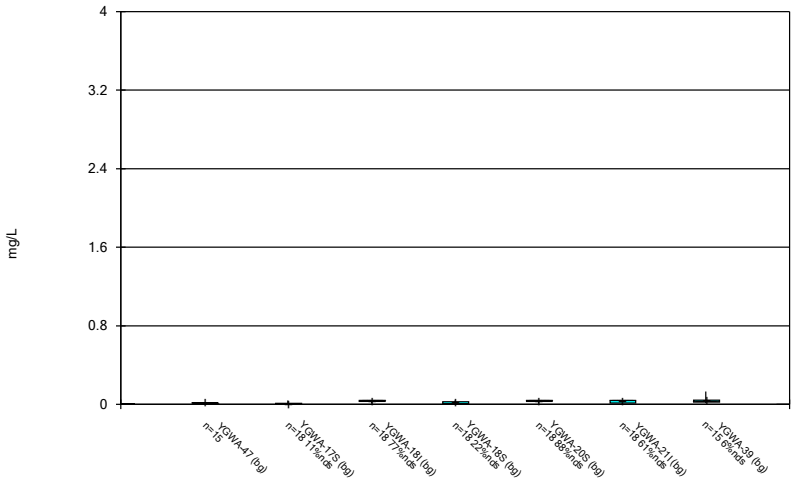


Constituent: Boron Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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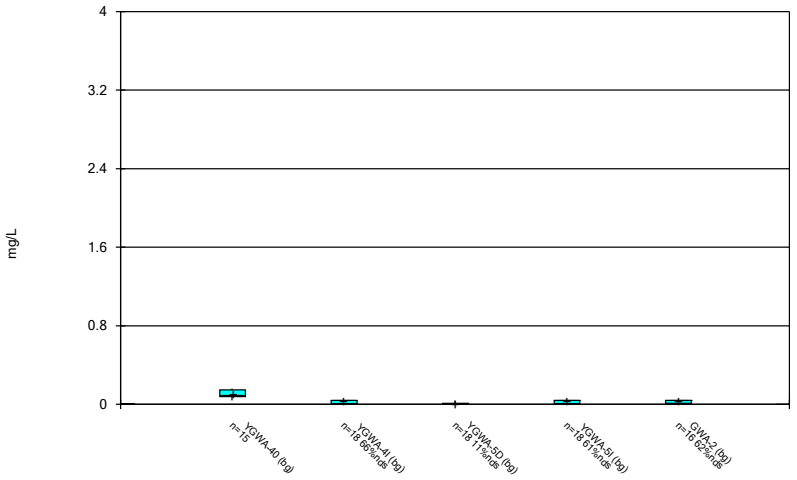
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

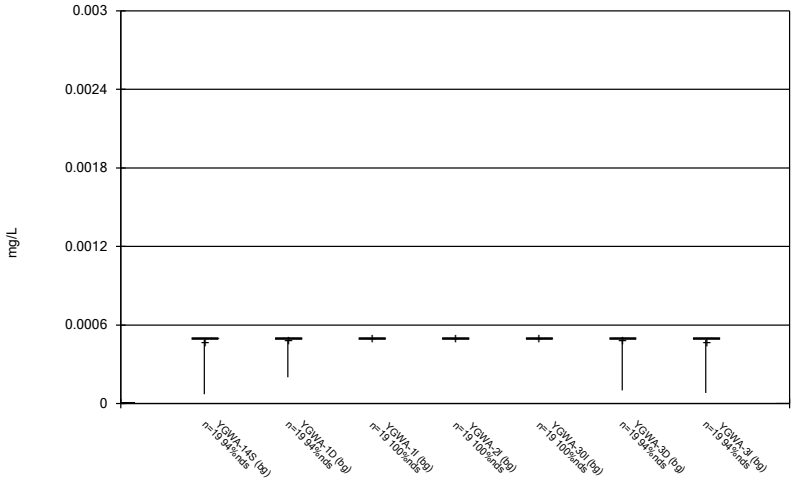
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

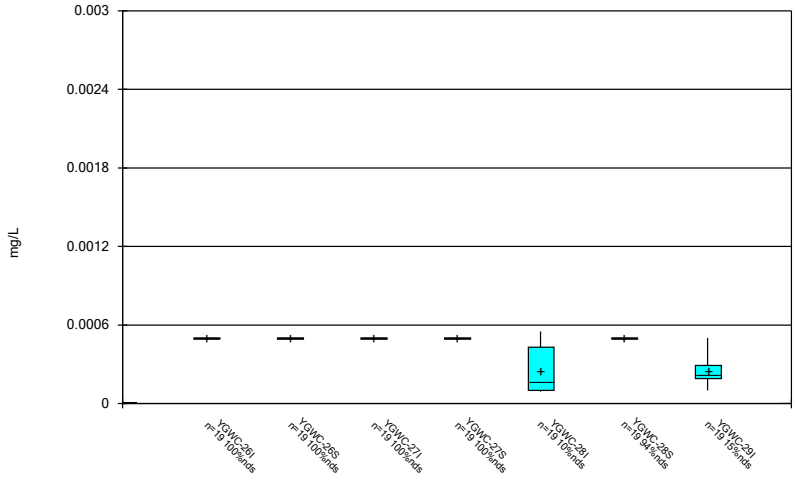


Constituent: Cadmium Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

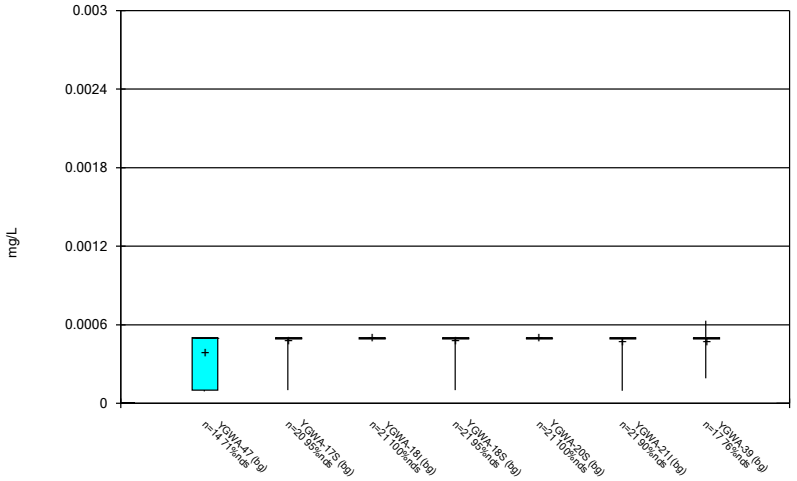


Constituent: Cadmium Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

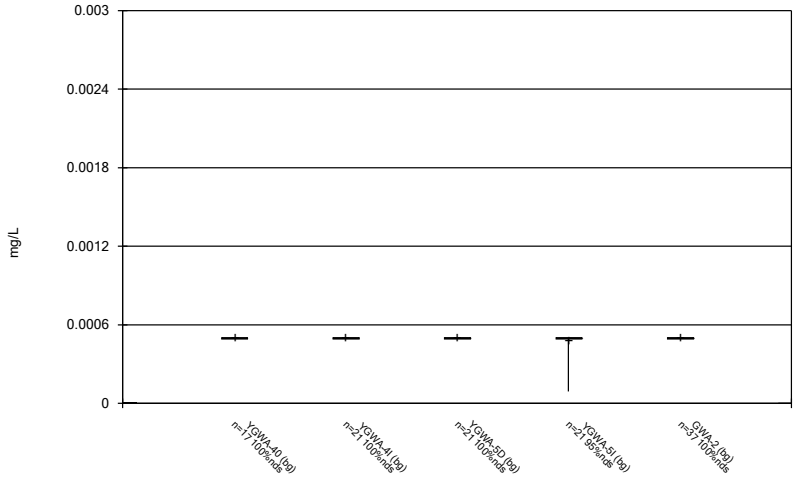


Constituent: Cadmium Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

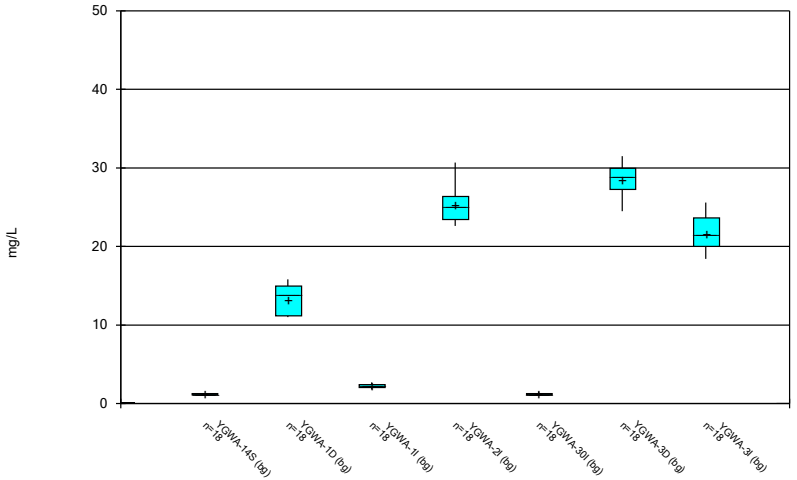
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

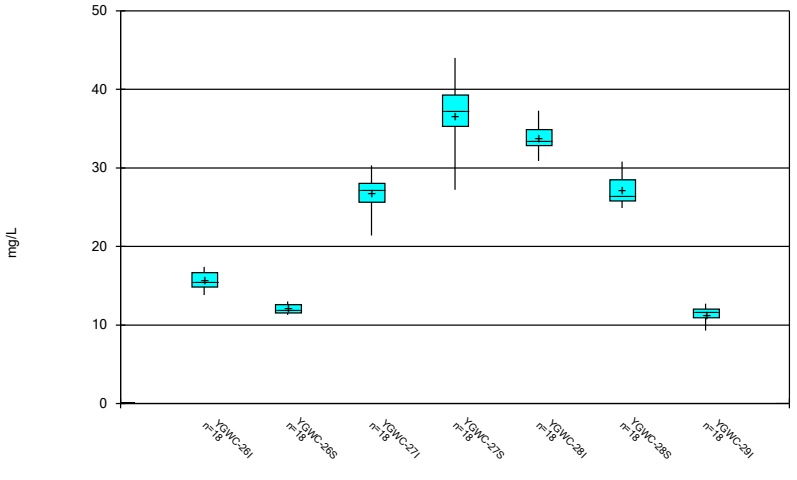


Constituent: Calcium Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

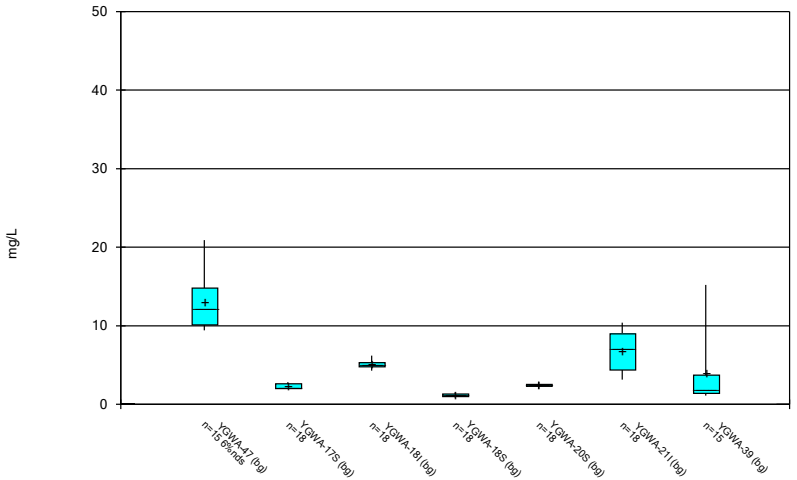


Constituent: Calcium Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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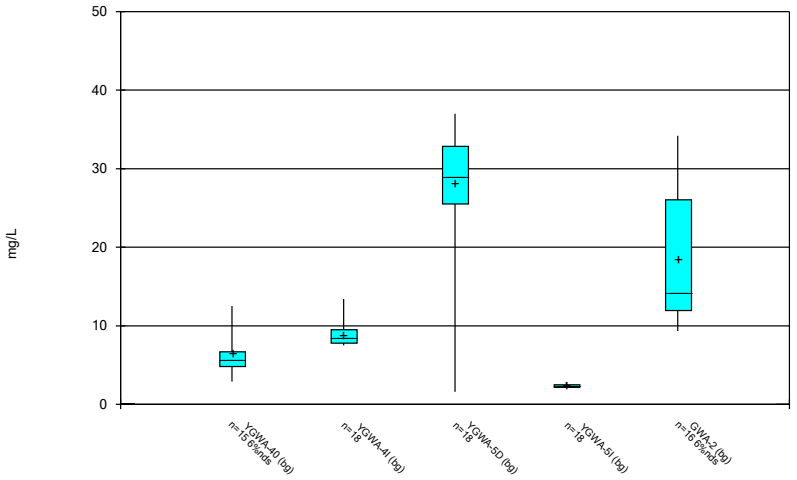
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

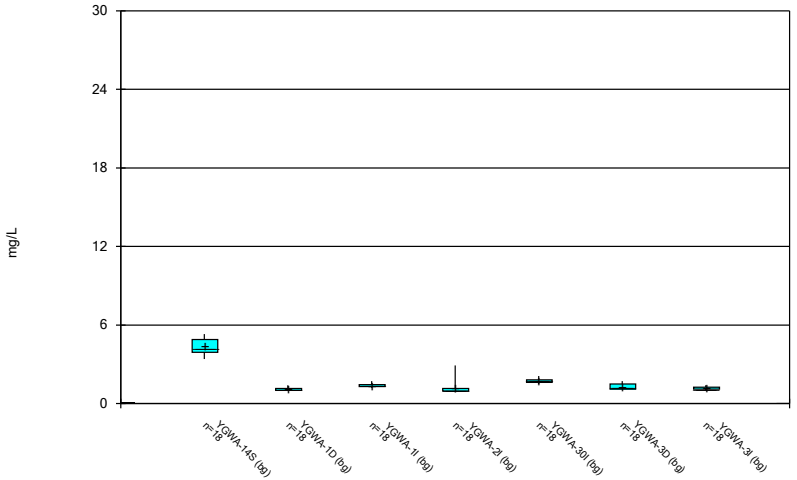
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

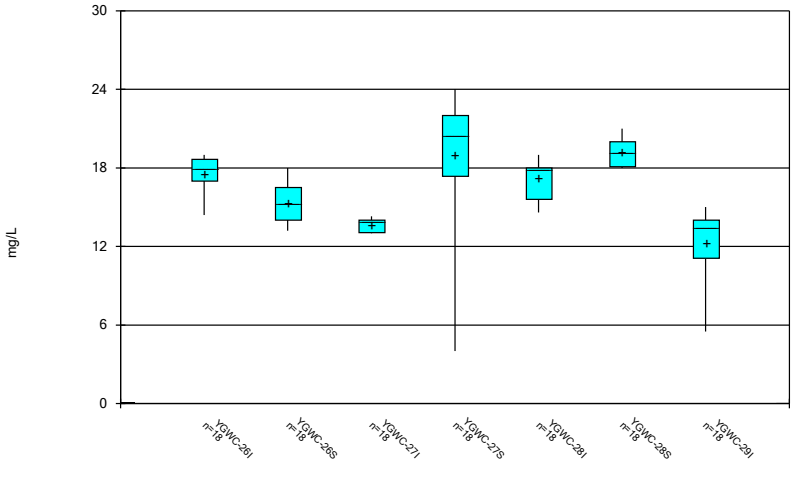


Constituent: Chloride Analysis Run 4/27/2022 1:24 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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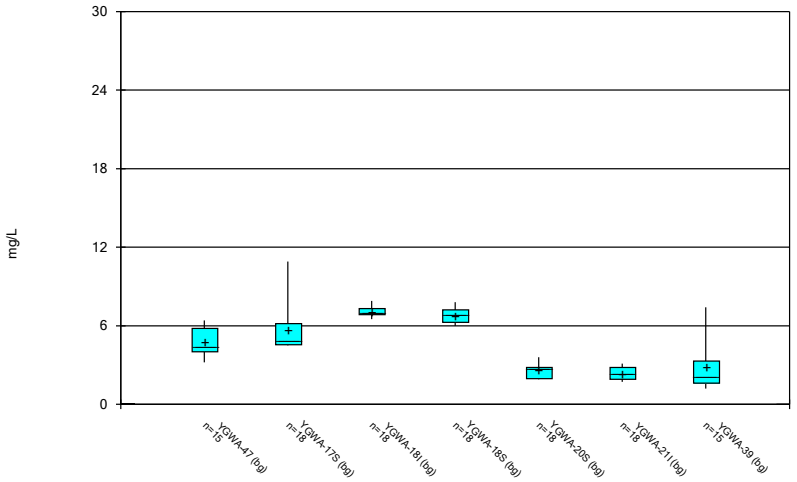
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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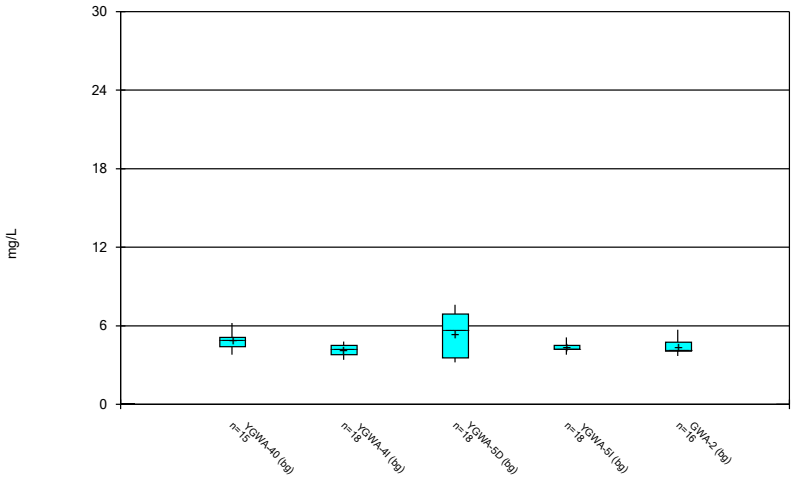
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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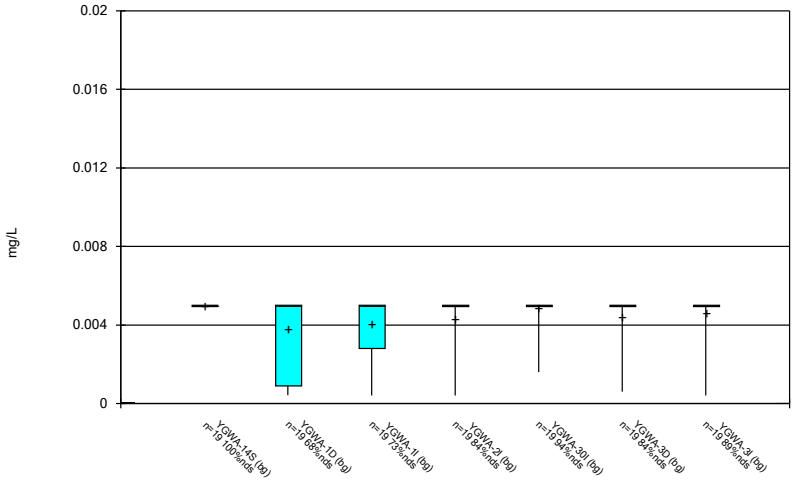
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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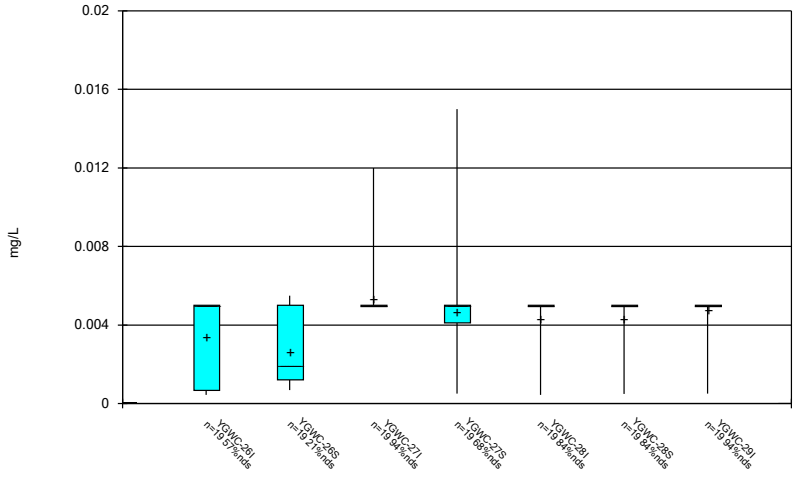
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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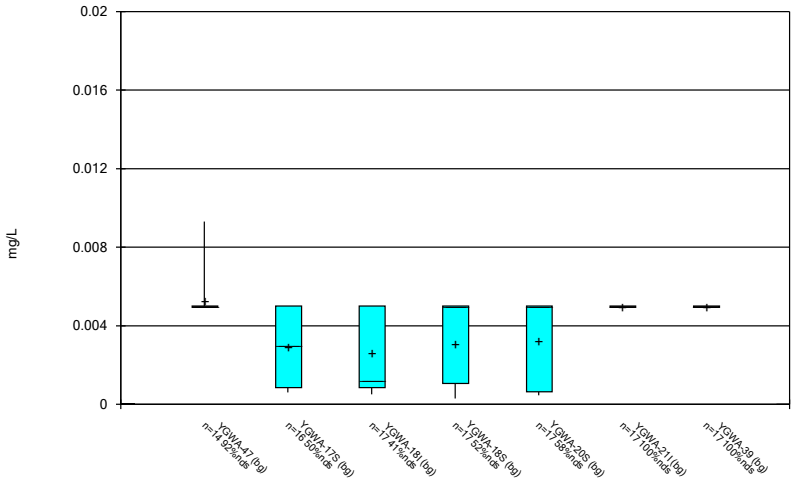
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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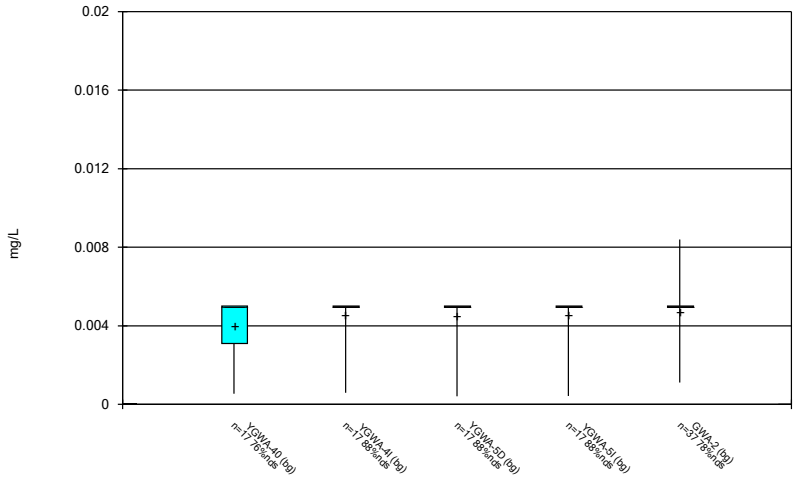
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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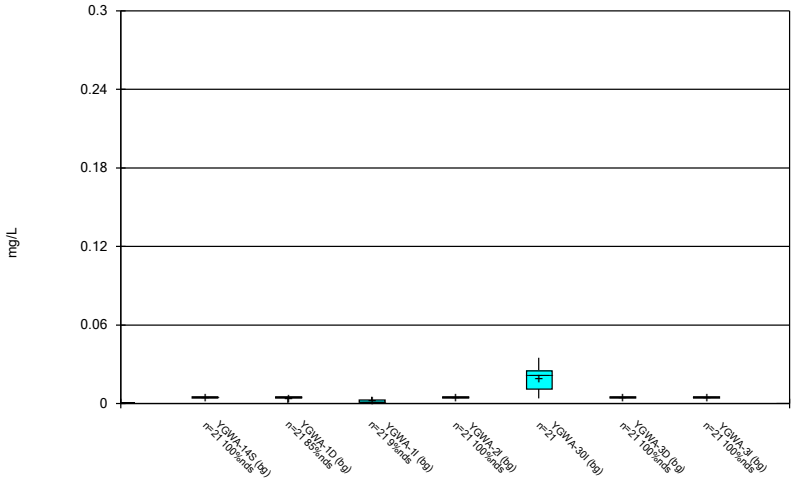
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

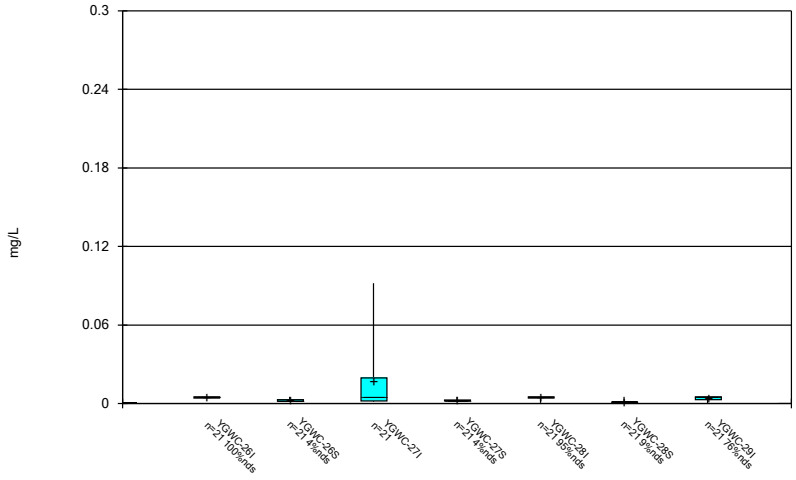


Constituent: Cobalt Analysis Run 4/27/2022 1:25 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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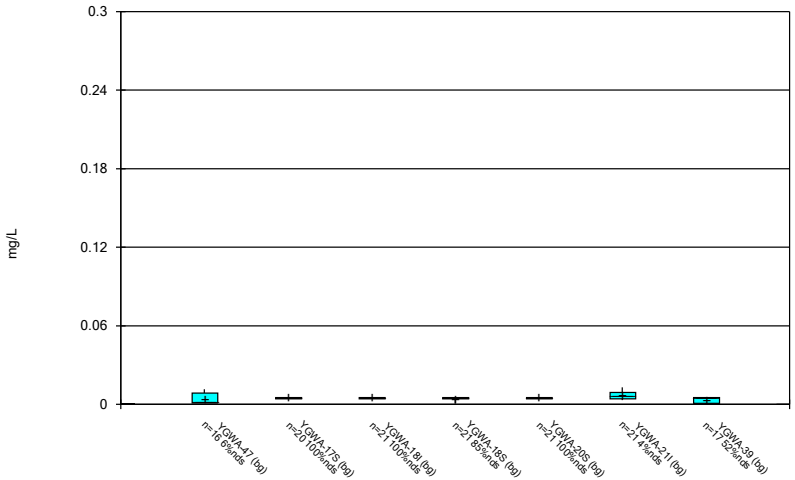
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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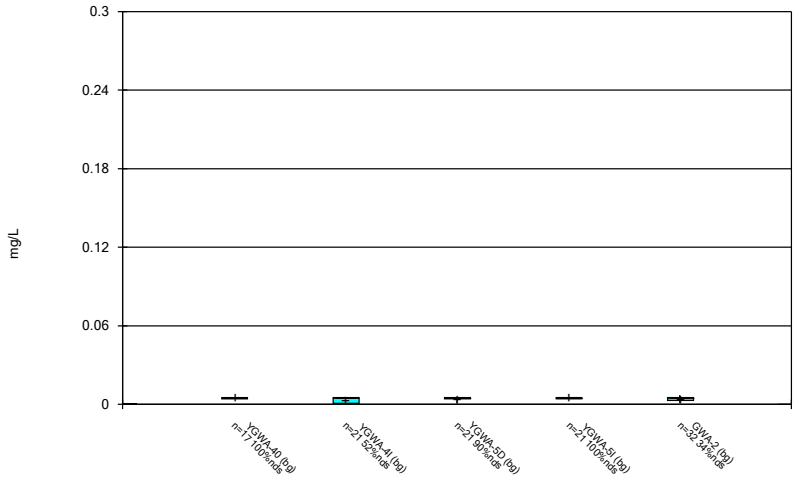
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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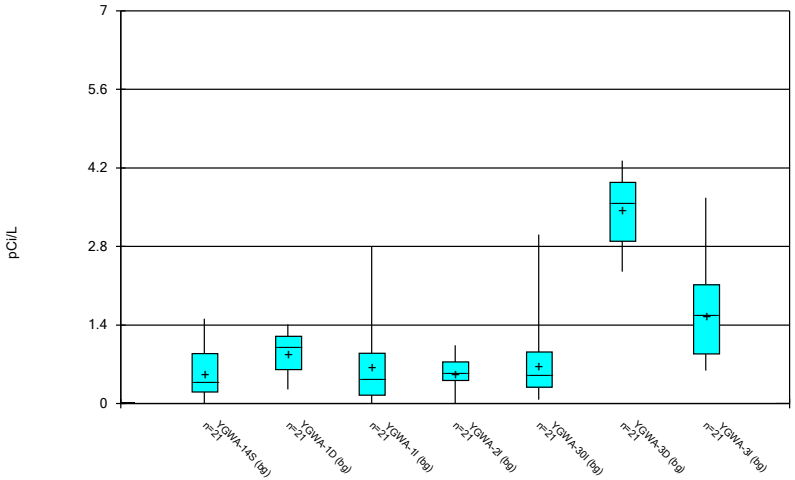
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

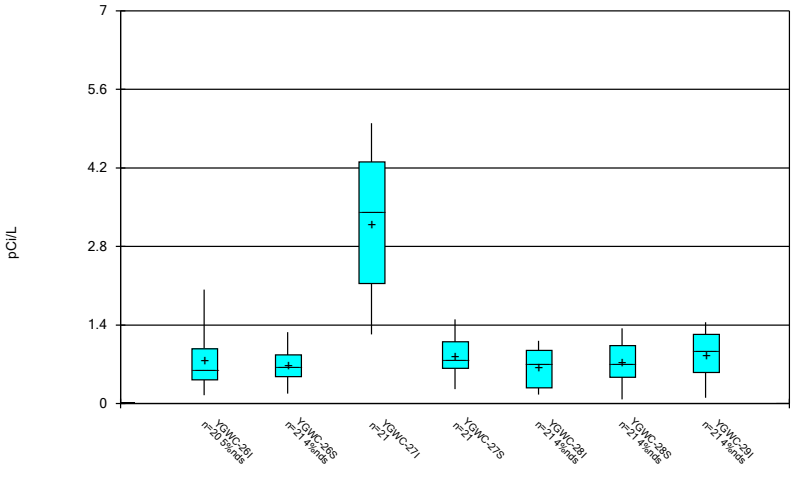
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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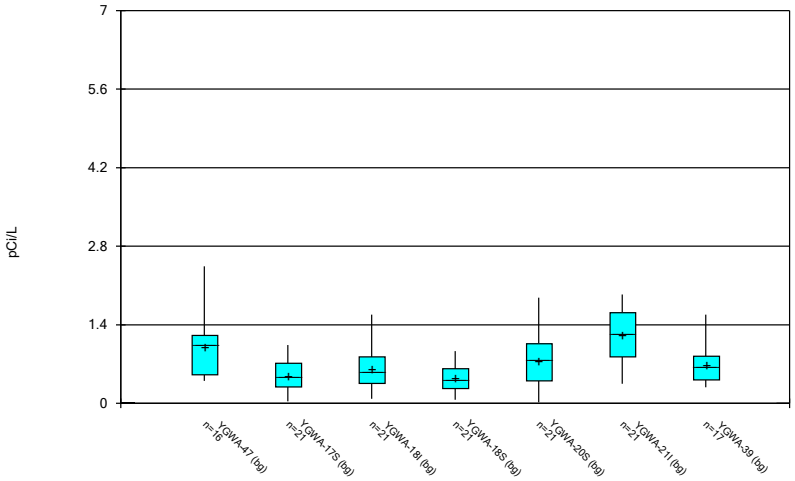
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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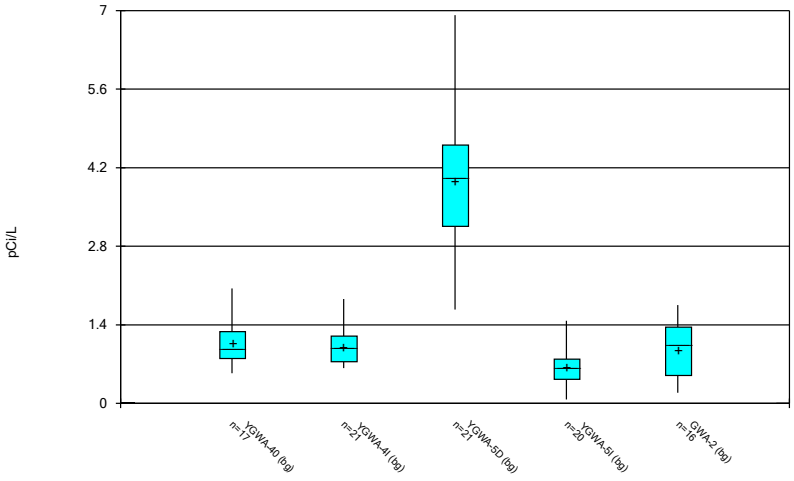
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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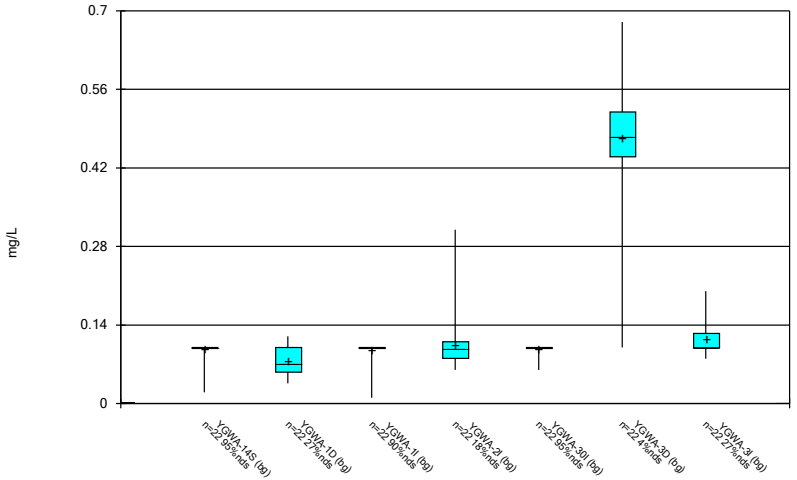
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

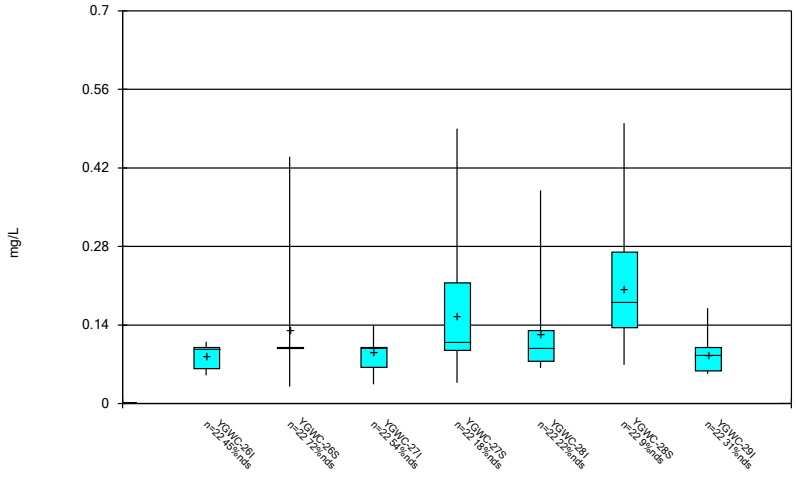


Constituent: Fluoride Analysis Run 4/27/2022 1:25 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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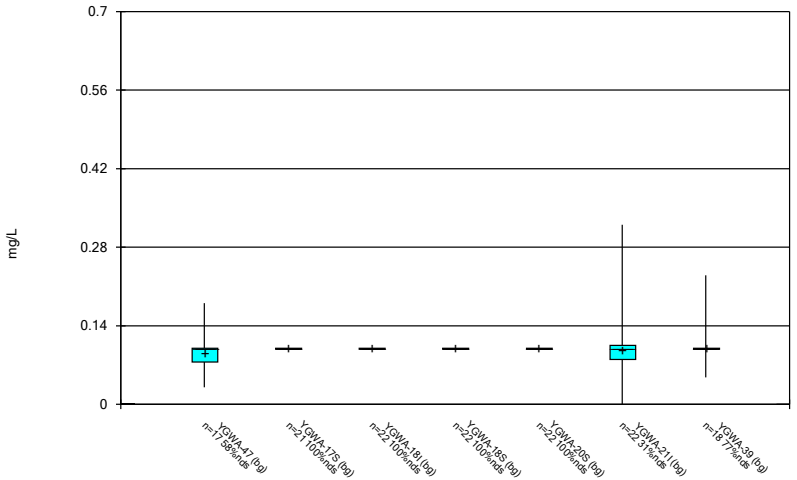
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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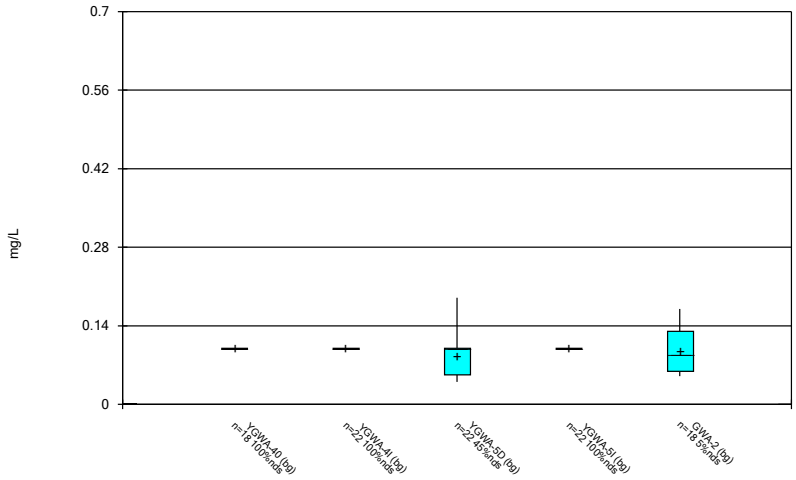
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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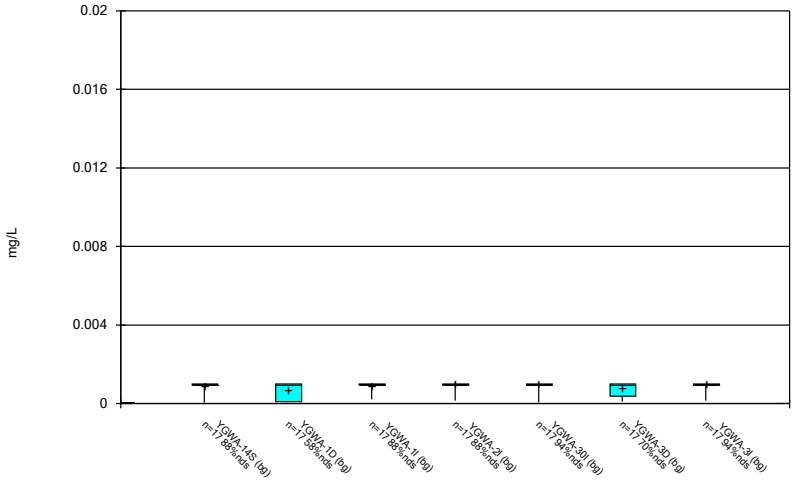
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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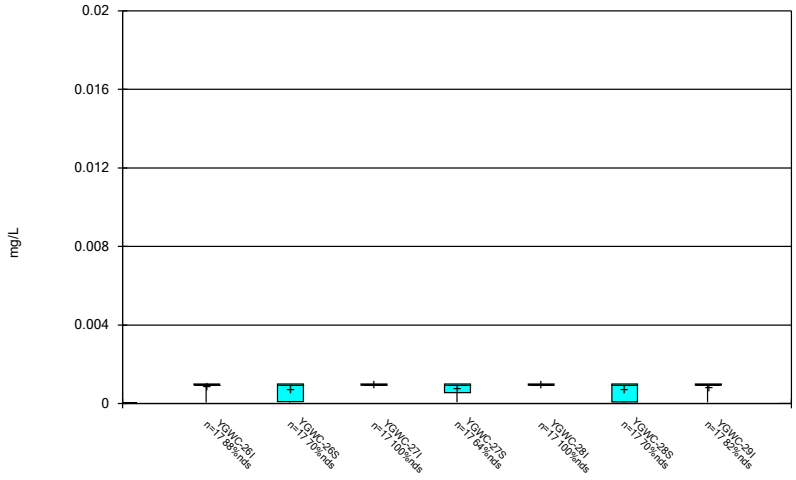
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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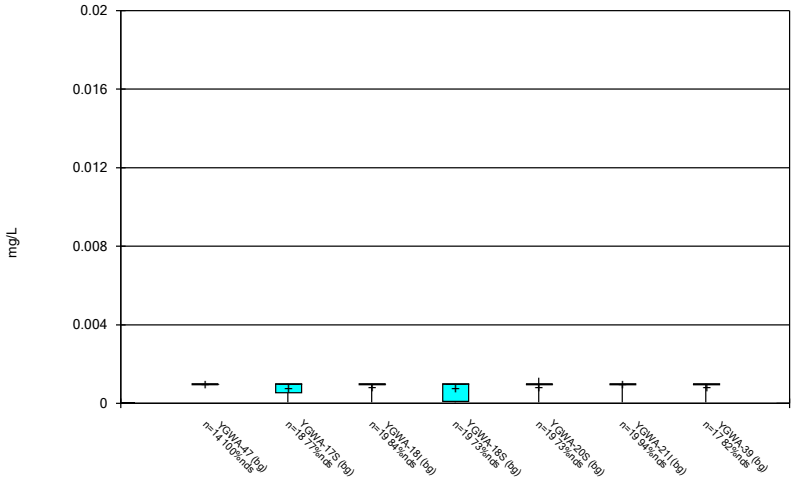
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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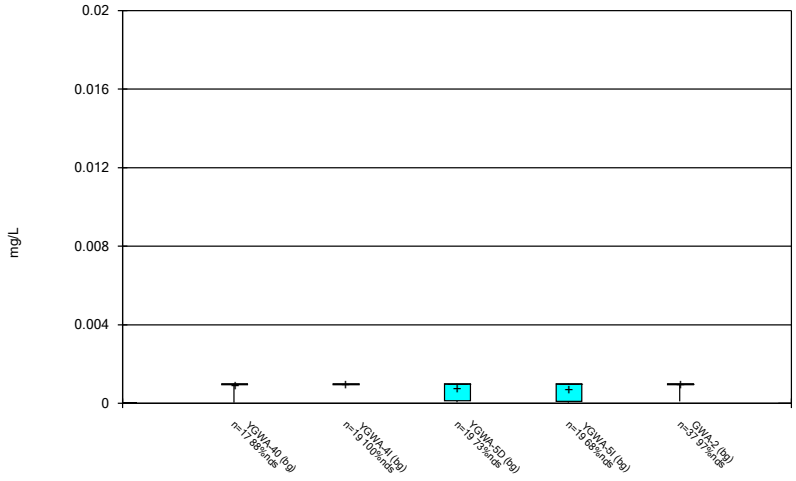
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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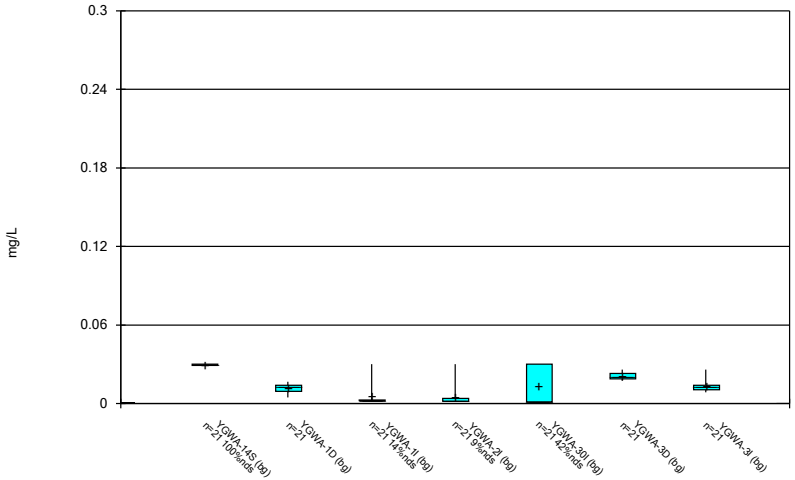
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

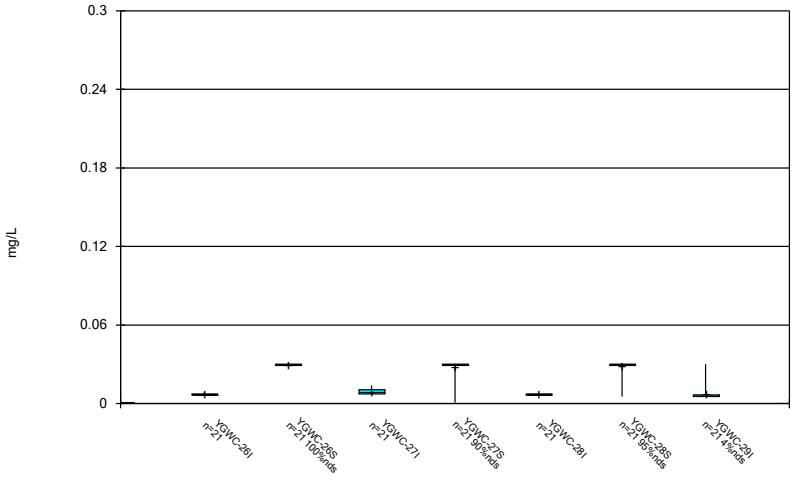


Constituent: Lithium Analysis Run 4/27/2022 1:25 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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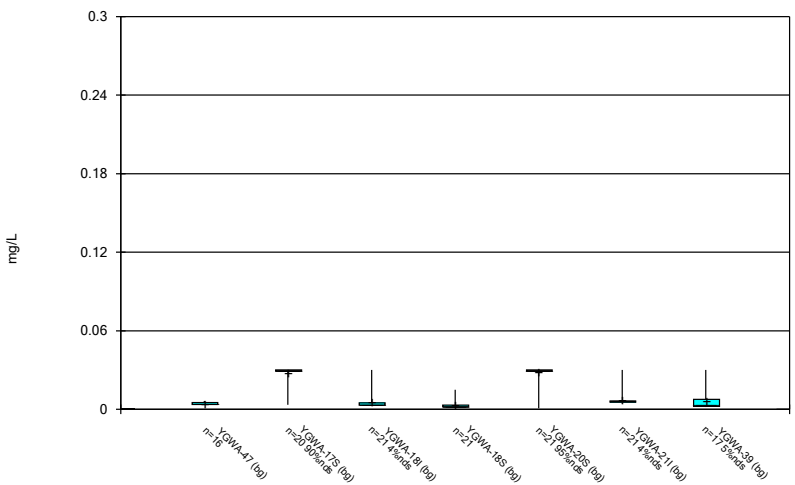
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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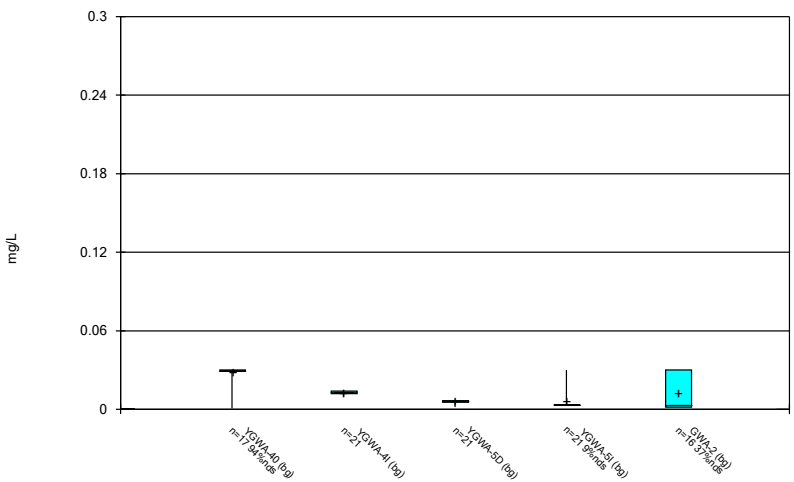
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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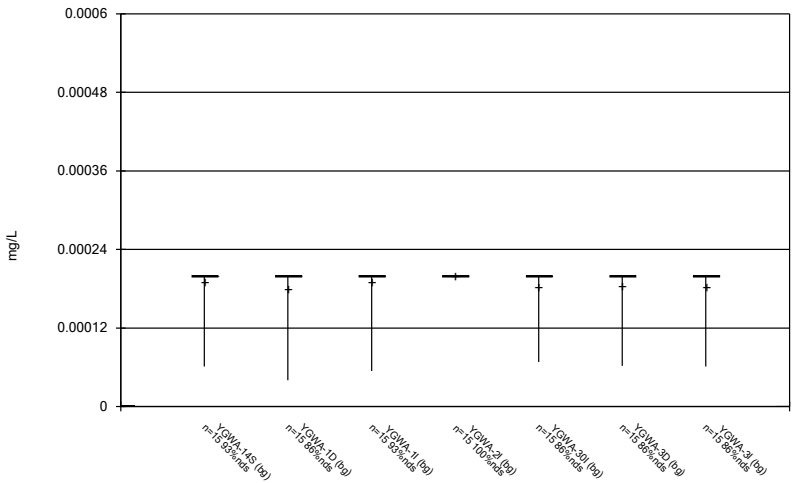
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

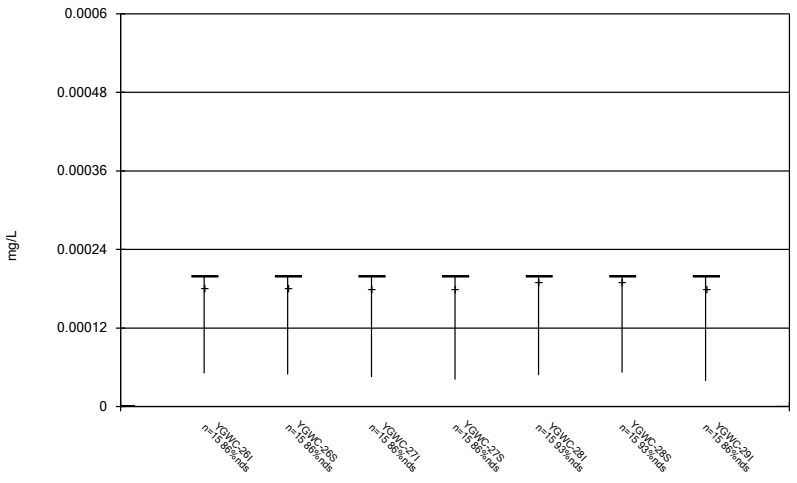


Constituent: Mercury Analysis Run 4/27/2022 1:25 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/27/2022 1:25 PM

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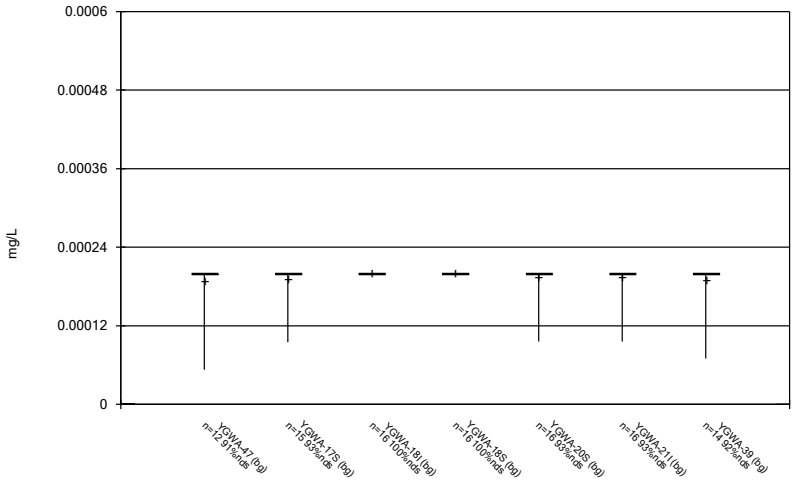
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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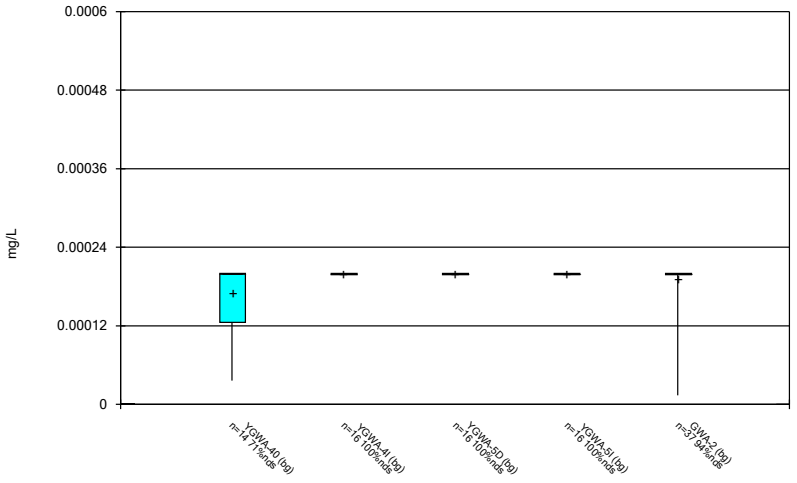
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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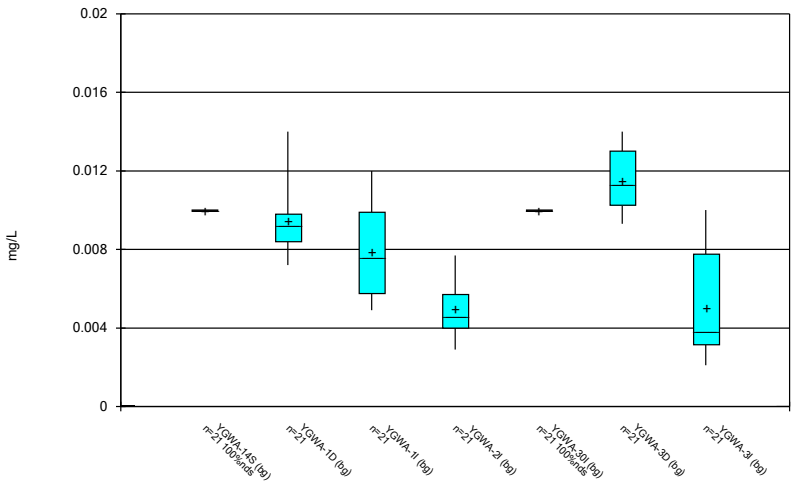
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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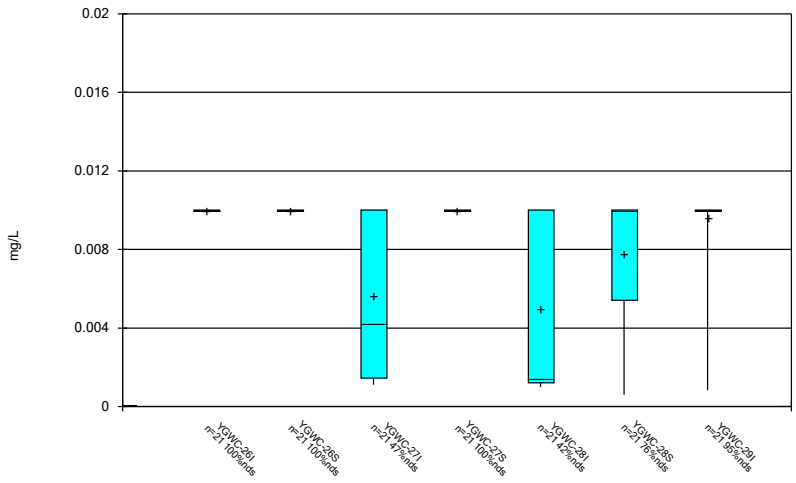
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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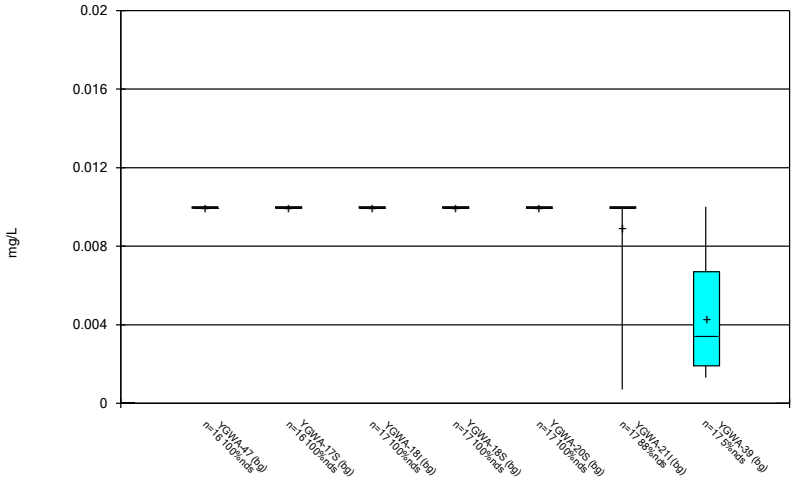
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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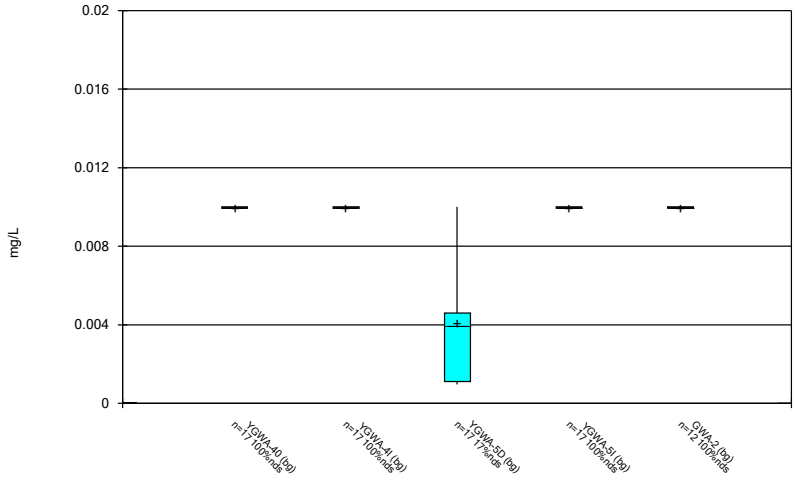
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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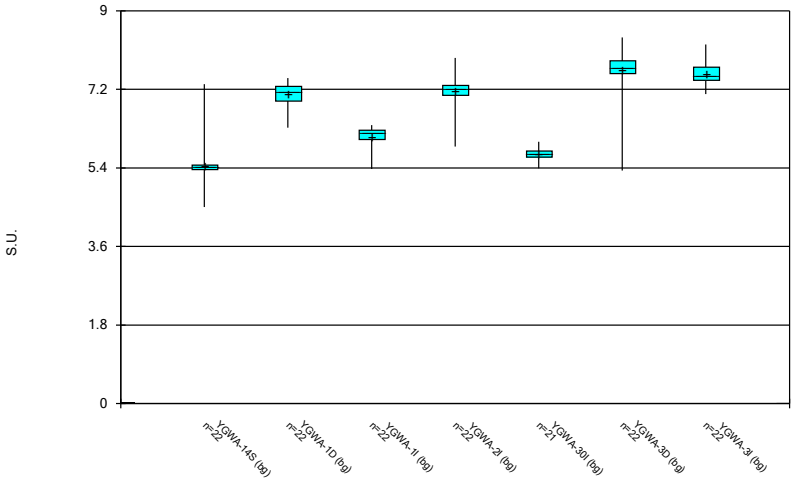
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

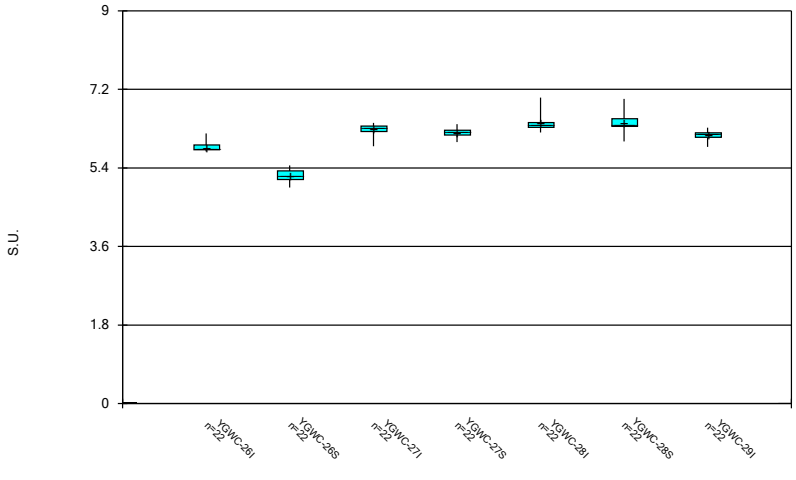


Constituent: pH Analysis Run 4/27/2022 1:25 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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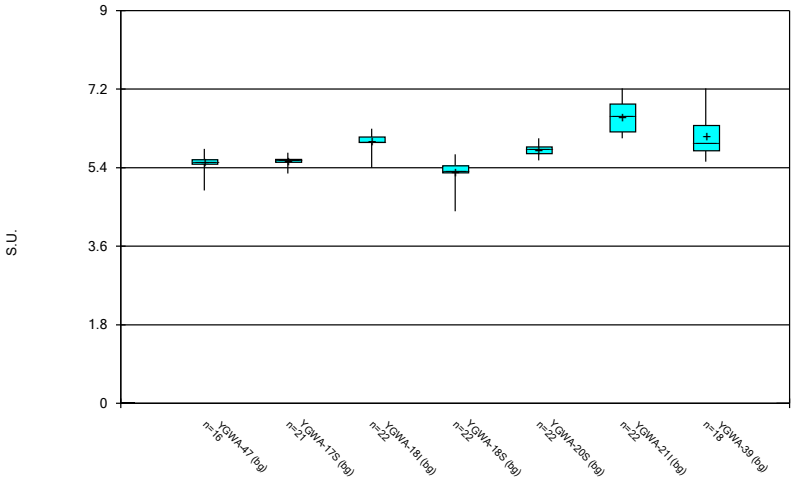
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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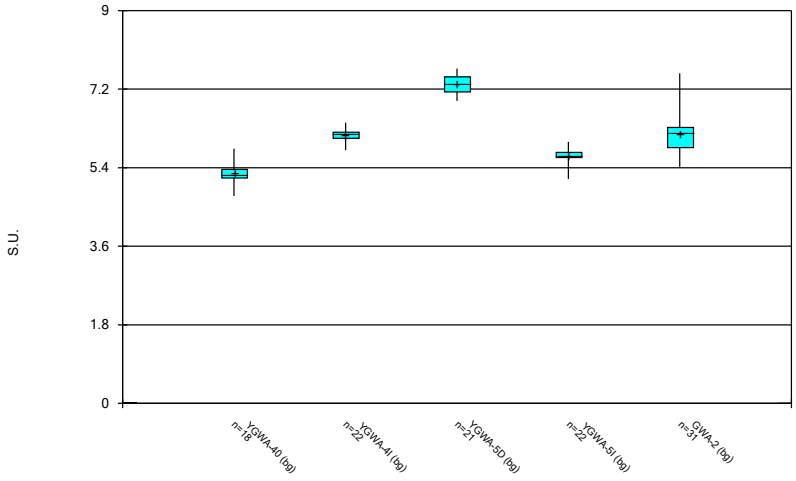
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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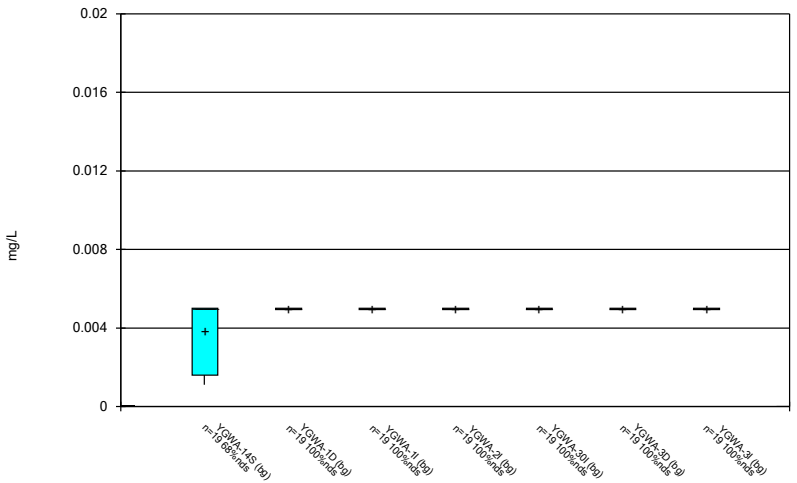
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

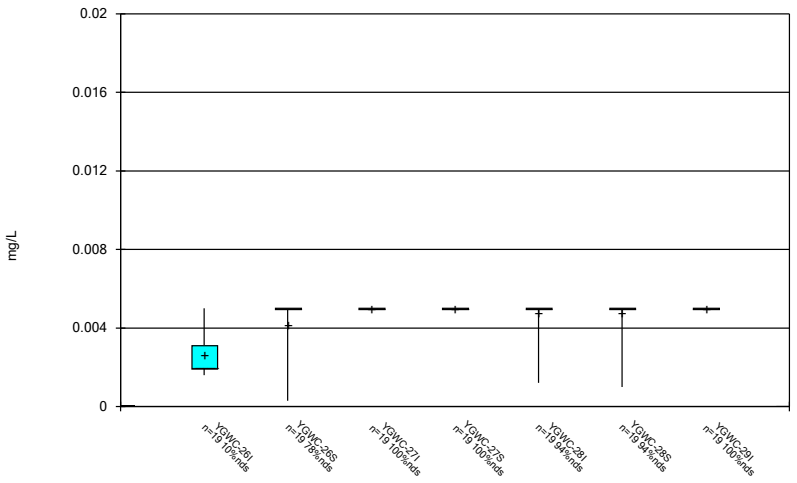


Constituent: Selenium Analysis Run 4/27/2022 1:25 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot

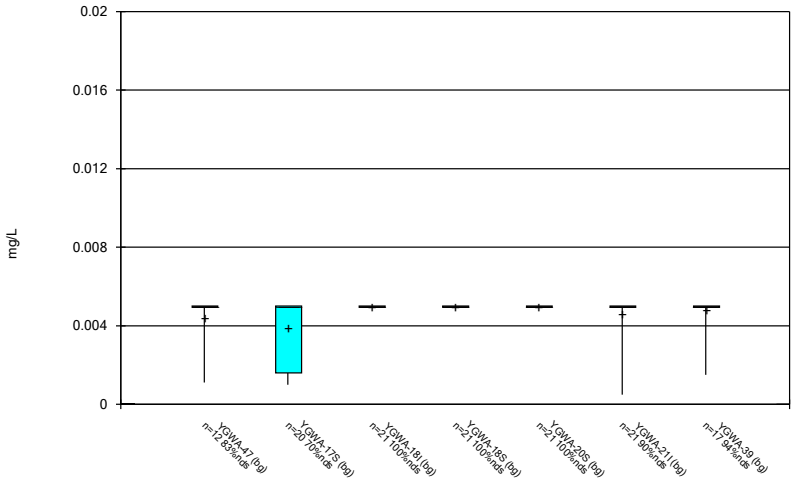


Constituent: Selenium Analysis Run 4/27/2022 1:25 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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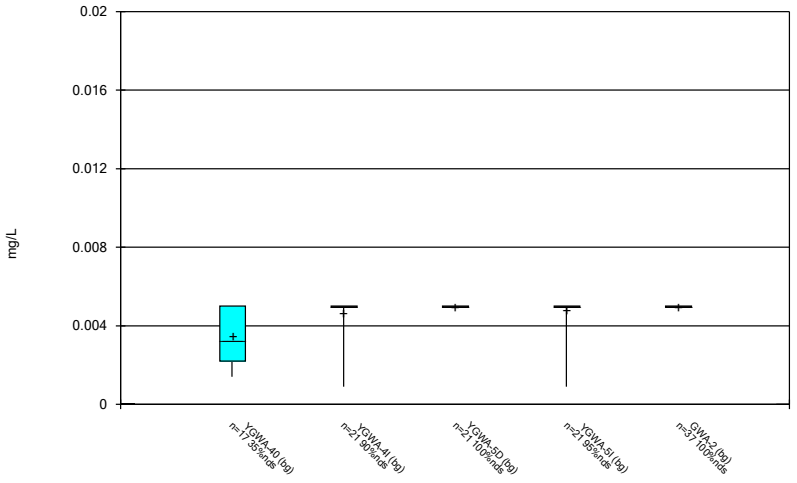
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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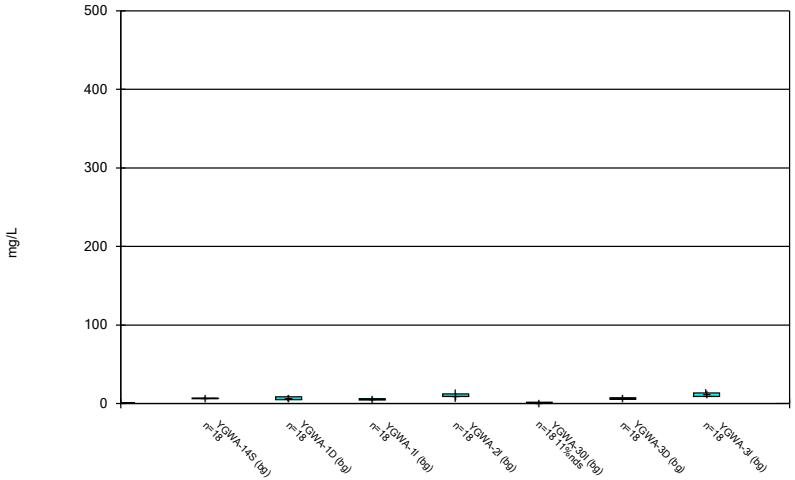
Box & Whiskers Plot



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Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

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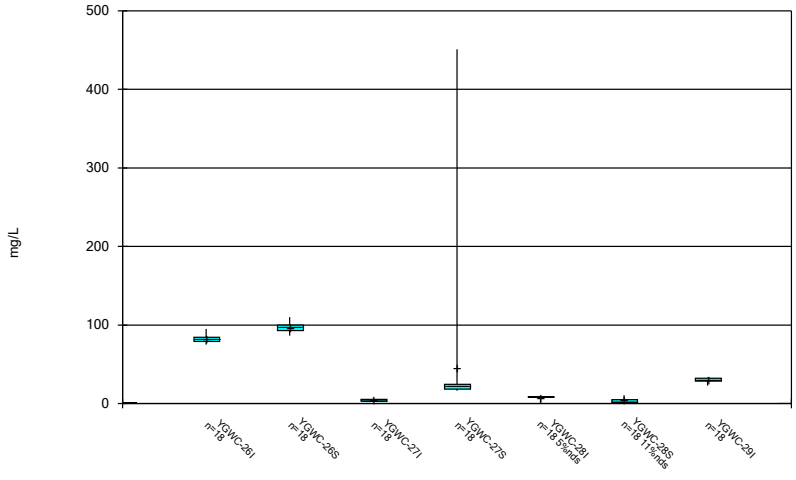

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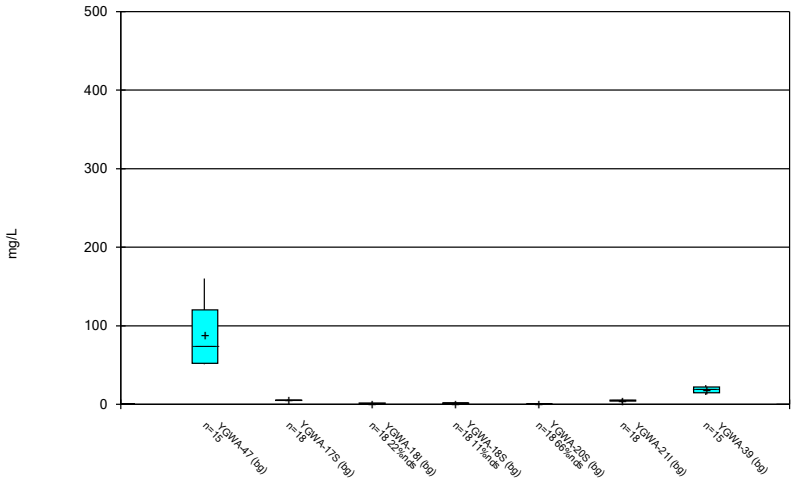

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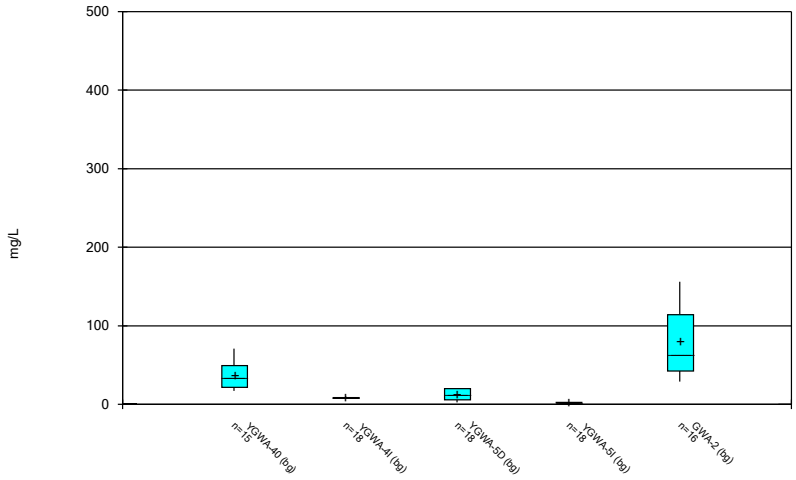

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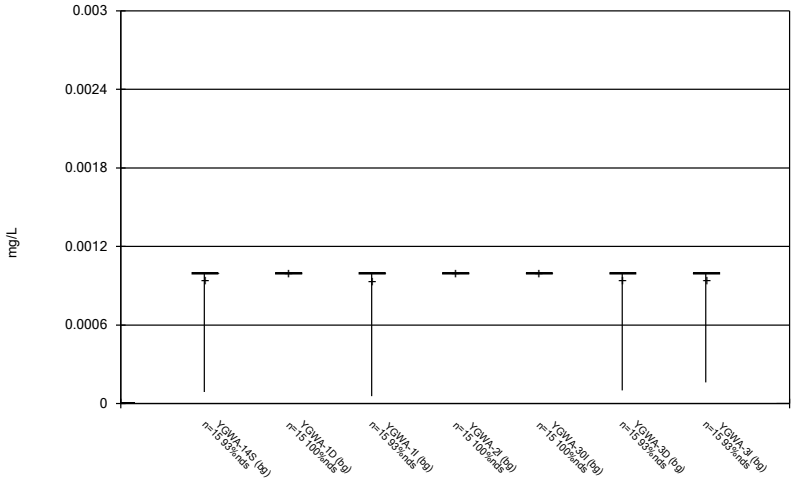

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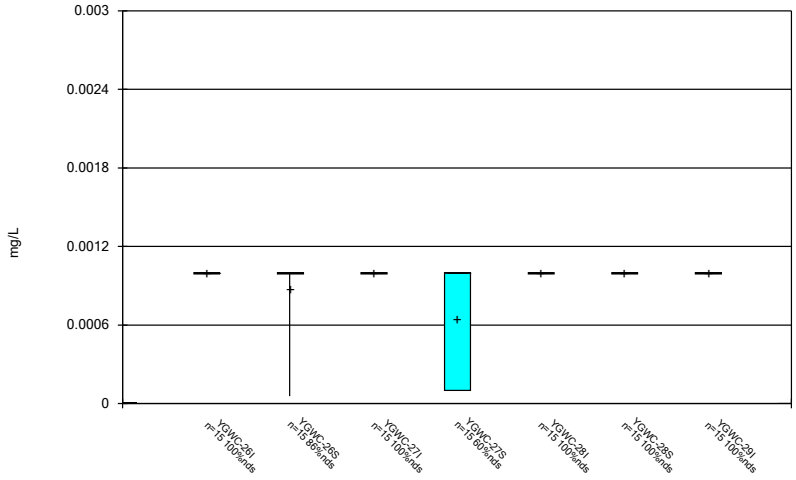
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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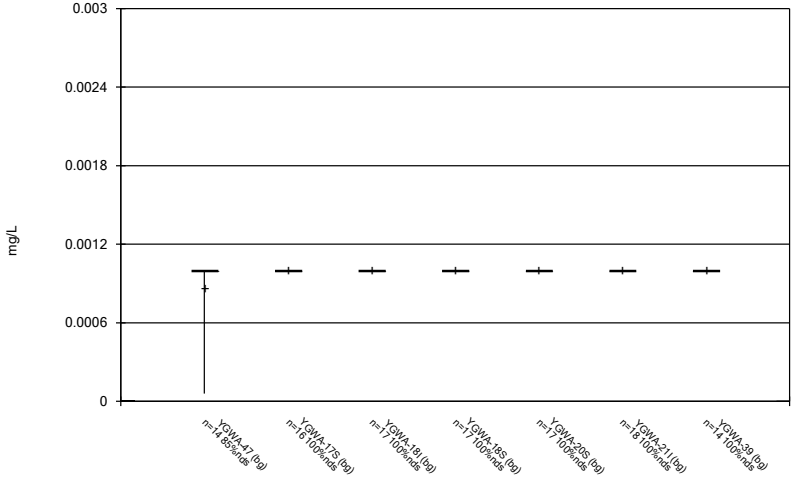
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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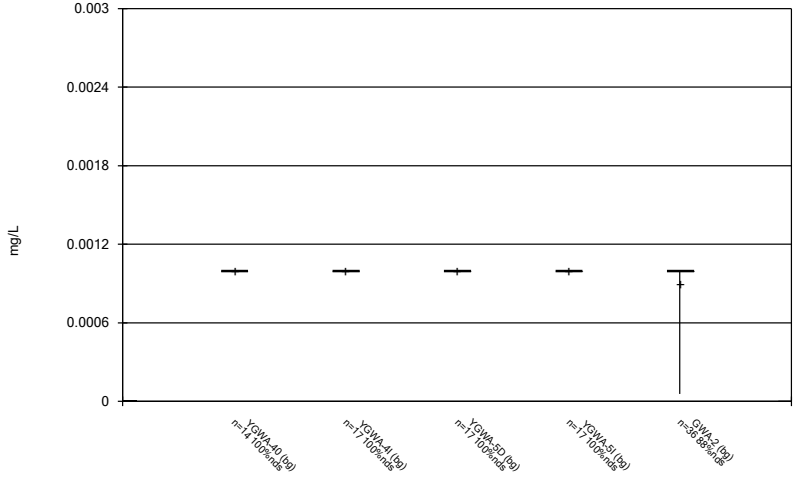
Box & Whiskers Plot



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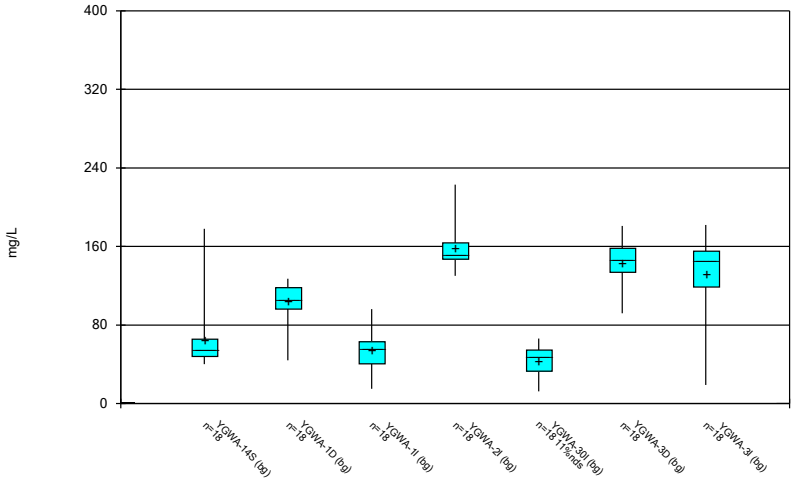
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

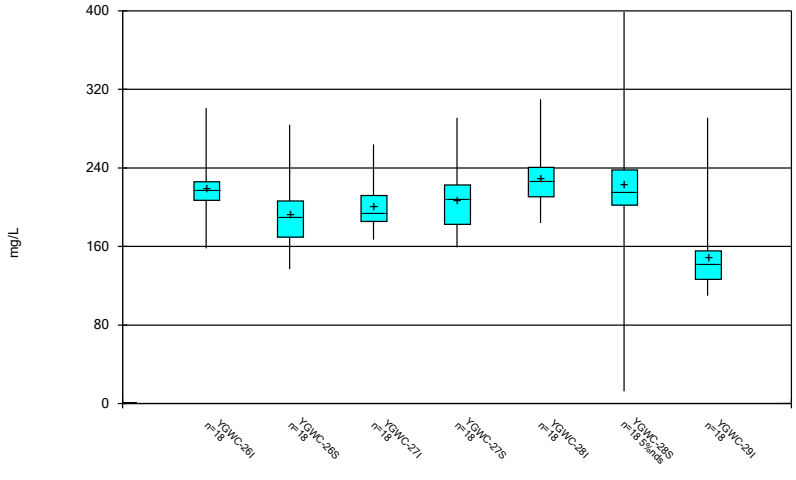
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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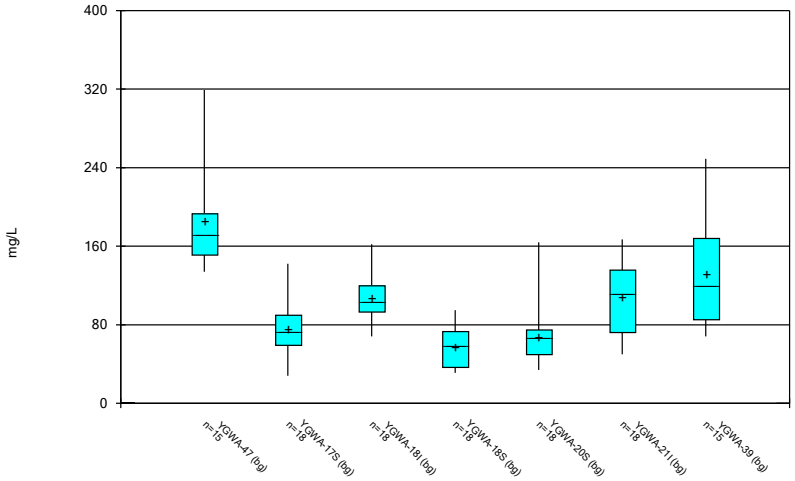
Box & Whiskers Plot



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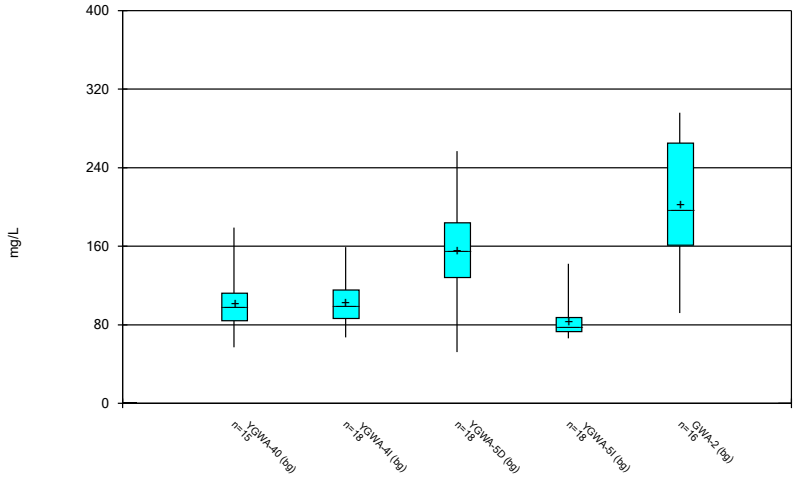


Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:28 PM

	GWA-2 Cobalt (mg/L)	YGWC-26I Combined Radium 226 + 228 (pCi/L)	YGWA-47 pH (S.U.)
6/8/2016		6.68 (o)	
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: Yates Ash Pond 2 Printed 3/21/2022, 12:48 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-26I	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/10/2022	2.5	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/8/2022	1.1	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	2/8/2022	0.71	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	10.9	n/a	2/10/2022	15.4	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	10.9	n/a	2/10/2022	14	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	10.9	n/a	2/10/2022	13.1	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	10.9	n/a	2/8/2022	13	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	10.9	n/a	2/8/2022	15.2	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	10.9	n/a	2/8/2022	18.3	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

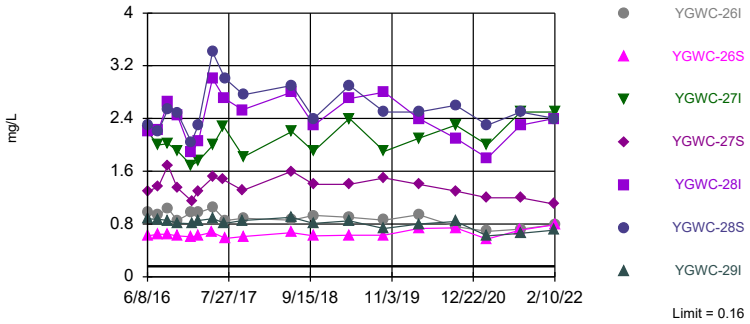
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 PM

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-26I**	**0.16**	**n/a**	**2/10/2022**	**0.79**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**2/10/2022**	**0.79**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**2/10/2022**	**2.5**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**2/8/2022**	**1.1**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**2/8/2022**	**2.4**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**2/8/2022**	**2.4**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-29I**	**0.16**	**n/a**	**2/8/2022**	**0.71**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	2/10/2022	16.4	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/10/2022	11.6	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/10/2022	27.4	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/8/2022	27.2	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/8/2022	31.8	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/8/2022	26.7	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	2/8/2022	9.3	No	331	n/a	n/a	0.9063	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**10.9**	**n/a**	**2/10/2022**	**15.4**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**10.9**	**n/a**	**2/10/2022**	**14**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**10.9**	**n/a**	**2/10/2022**	**13.1**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27S**	**10.9**	**n/a**	**2/8/2022**	**13**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28I**	**10.9**	**n/a**	**2/8/2022**	**15.2**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**10.9**	**n/a**	**2/8/2022**	**18.3**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29I	10.9	n/a	2/8/2022	5.5	No	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	2/10/2022	0.059J	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	2/8/2022	0.087J	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	2/8/2022	0.063J	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	2/8/2022	0.14	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	2/8/2022	0.053J	No	400	n/a	n/a	67.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	2/10/2022	5.84	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	2/10/2022	5.31	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	2/10/2022	6.23	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	2/8/2022	6.22	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	2/8/2022	6.34	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	2/8/2022	6.3	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.4	2/8/2022	5.88	No	410	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/10/2022	81.8	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/10/2022	86.5	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/10/2022	2.4	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/8/2022	16.3	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/8/2022	8.1	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/8/2022	10.5	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	2/8/2022	22.9	No	331	n/a	n/a	6.042	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	221.1	n/a	2/10/2022	207	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	221.1	n/a	2/10/2022	168	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	221.1	n/a	2/10/2022	190	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	221.1	n/a	2/8/2022	159	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	221.1	n/a	2/8/2022	206	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	221.1	n/a	2/8/2022	216	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	221.1	n/a	2/8/2022	120	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

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 = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

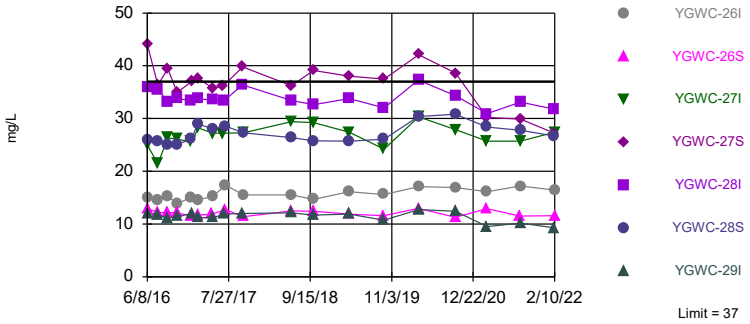
Constituent: Boron Analysis Run 3/21/2022 12:47 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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. 0.9063% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

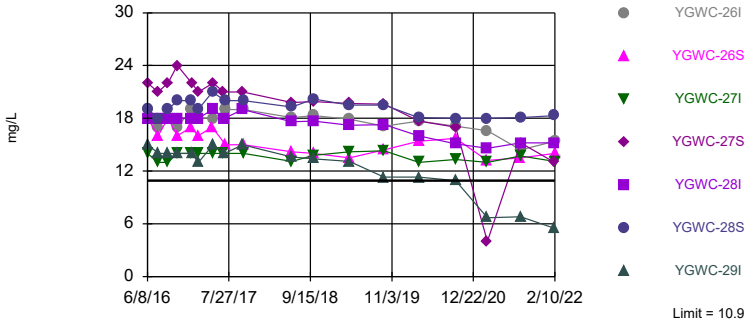
Constituent: Calcium Analysis Run 3/21/2022 12:47 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S

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 = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 3/21/2022 12:47 PM View: Appendix III

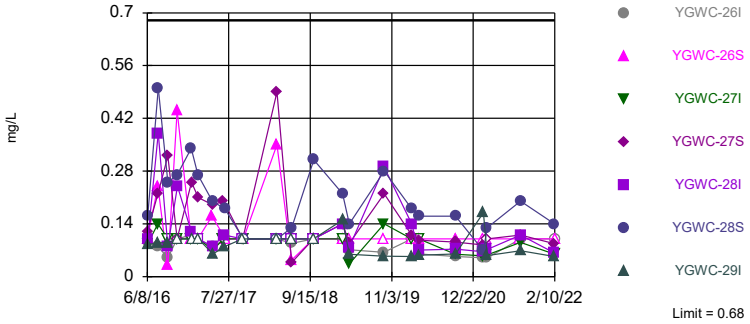
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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 = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 3/21/2022 12:47 PM View: Appendix III

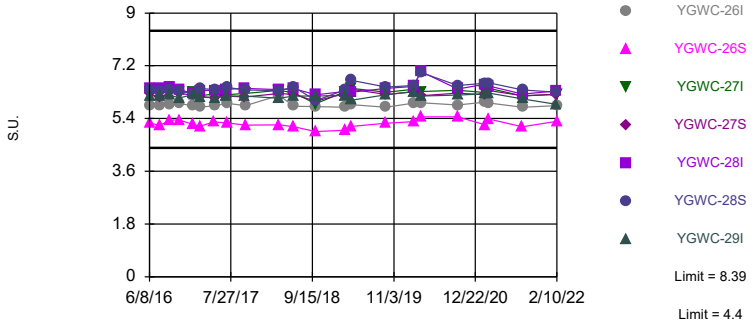
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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 = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 3/21/2022 12:47 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

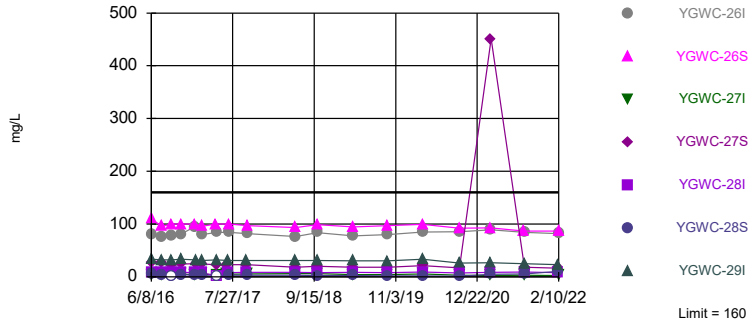
Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because 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 = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 3/21/2022 12:47 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

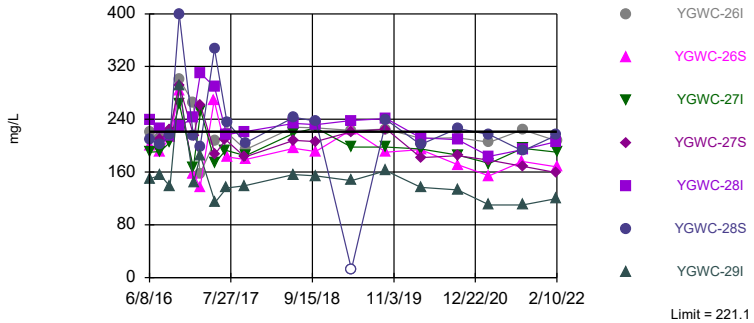
Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

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 = 1.859 (c=7, w=7, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 3/21/2022 12:47 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (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									
6/9/2016									
7/25/2016	<0.04	<0.04							<0.04
7/26/2016			0.0055 (J)	0.0177 (J)	0.0047 (J)	0.0052 (J)	0.0097 (J)	<0.04	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04				<0.04	0.0071 (J)		0.01 (J)	
9/15/2016				0.0214 (J)			0.0102 (J)		
9/16/2016									
9/19/2016									<0.04
9/20/2016									
9/21/2016									
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	
11/7/2016									
11/8/2016									
11/14/2016									
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
1/18/2017									
1/19/2017									
2/21/2017									<0.04
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	<0.04								
3/2/2017		<0.04	0.008 (J)				0.0084 (J)		
3/3/2017									
3/6/2017					<0.04				
3/7/2017						0.0089 (J)		<0.04	
3/8/2017				0.0189 (J)					
4/26/2017	<0.04			0.0161 (J)			<0.04		<0.04
4/27/2017		<0.04	0.0066 (J)						
4/28/2017									
5/1/2017					<0.04	0.0061 (J)			
5/2/2017								<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
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				0.0173 (J)					<0.04
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		0.0071 (J)	0.0072 (J)			0.0094 (J)		<0.04	
10/4/2017	<0.04						<0.04		<0.04
10/5/2017				0.0173 (J)	<0.04				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			0.0052 (J)						
6/6/2018		<0.04				0.0098 (J)			
6/7/2018					0.0045 (J)		0.004 (J)	<0.04	
6/8/2018	<0.04			0.013 (J)					
6/11/2018									0.014 (J)
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.005 (J)	0.01 (J)		0.0057 (J)	
10/1/2018	<0.04	0.0049 (J)	0.021 (J)	0.015 (J)			<0.04		
10/2/2018									<0.04
10/3/2018									
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

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					0.0055 (J)	0.0076 (J)		0.0044 (J)	
6/12/2019									
9/24/2019		0.0055 (J)	0.0064 (J)			0.01 (J)		0.0049 (J)	
9/25/2019	<0.04			0.018 (J)	<0.04		0.0054 (J)		<0.04
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		0.0087 (J)		0.02 (J)					
3/19/2020	0.0053 (J)		0.0085 (J)				0.0073 (J)		0.0052 (J)
3/20/2020									
3/24/2020						0.011 (J)		0.0068 (J)	
3/25/2020					0.011 (J)				
9/22/2020					<0.04	0.0079 (J)		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)					
3/1/2021									<0.04
3/2/2021				0.017 (J)		0.0068 (J)		0.011 (J)	
3/3/2021	<0.04	<0.04	<0.04		0.0056 (J)		<0.04		
3/4/2021									
8/19/2021		<0.04	<0.04	0.018 (J)			<0.04		<0.04
8/20/2021									
8/26/2021					<0.04	0.009 (J)		<0.04	
8/27/2021	<0.04								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04				0.01 (J)		
2/10/2022				0.02 (J)		0.011 (J)		<0.04	
2/11/2022					<0.04				<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
6/8/2016						1.3	0.97	0.62	2.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04	0.008 (J)		<0.04				
7/28/2016				<0.04					
8/1/2016						1.36	0.932	0.643	2
8/2/2016									
8/30/2016									
8/31/2016									
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						1.69	1.04	0.644	2.02
9/21/2016									
11/1/2016									
11/2/2016					<0.04				
11/3/2016	0.0082 (J)	<0.04	0.0077 (J)	<0.04					
11/4/2016									
11/7/2016						1.35	0.852	0.621	1.91
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.04	0.0092 (J)						
1/12/2017									
1/13/2017				<0.04	<0.04				
1/16/2017									
1/18/2017							0.972	0.607	1.69
1/19/2017						1.15			
2/21/2017							0.972	0.624	
2/22/2017						1.3			
2/23/2017									1.76
2/24/2017									
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									
4/26/2017	0.0091 (J)	<0.04		<0.04	<0.04				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.04						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								0.676	
5/5/2017									
5/8/2017						1.51	1.05		2
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017						1.47			2.28
7/5/2017									
7/7/2017									
7/10/2017							0.855	0.58	
7/11/2017									
7/17/2017									
10/3/2017				<0.04					
10/4/2017	0.009 (J)		0.0077 (J)		<0.04				
10/5/2017		<0.04							
10/6/2017						1.31			
10/9/2017									1.82
10/10/2017							0.887	0.612	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
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						1.6			
6/13/2018							0.86	0.67	2.2
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	0.0096 (J)	0.0054 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018						1.4	0.93	0.62	1.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						1.4			2.4

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019			0.0066 (J)	0.011 (J)			0.9	0.63	
4/3/2019	0.0053 (J)	<0.04			<0.04				
6/12/2019									
9/24/2019				0.018 (J)					
9/25/2019			0.0081 (J)		<0.04		0.86	0.63	
9/26/2019	0.0072 (J)	0.0062 (J)				1.5			1.9
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								0.73	
3/20/2020						1.4	0.94		2.1
3/24/2020	0.01 (J)	0.0054 (J)	0.0092 (J)	0.016 (J)	<0.04				
3/25/2020									
9/22/2020									
9/23/2020	0.006 (J)	0.021 (J)	0.0066 (J)						
9/24/2020				0.013 (J)	0.0094 (J)	1.3	0.76	0.74	2.3
9/25/2020									
3/1/2021									
3/2/2021								0.57	
3/3/2021	0.0094 (J)	<0.04	0.01 (J)		<0.04	1.2	0.69		2
3/4/2021				0.0079 (J)					
8/19/2021								0.71	
8/20/2021						1.2	0.72		2.5
8/26/2021	<0.04								
8/27/2021		<0.04	0.011 (J)		<0.04				
9/1/2021				<0.04					
9/3/2021									
2/8/2022						1.1			
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04				
2/10/2022							0.79	0.79	2.5
2/11/2022									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	2.3	0.88	2.2					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	2.21	0.872	2.22					
8/30/2016				0.0166 (J)				
8/31/2016					0.0315 (J)			
9/13/2016								
9/14/2016						<0.04		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	2.54	0.853	2.65					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.04		
11/7/2016	2.49	0.815						
11/8/2016			2.44					
11/14/2016				0.0166 (J)				
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		
1/18/2017	2.04		1.88					
1/19/2017		0.803						
2/21/2017	2.29							
2/22/2017		0.855	2.05		<0.04			
2/23/2017								
2/24/2017				0.0145 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.04		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						<0.04		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	3.41		3.01					
5/8/2017		0.884		0.0141 (J)	0.0084 (J)			
5/26/2017						<0.04		
6/27/2017								
6/28/2017						<0.04		
6/29/2017								
6/30/2017								
7/5/2017		0.811	2.7					
7/7/2017	3.01							
7/10/2017								
7/11/2017				0.0131 (J)				
7/17/2017					0.0092 (J)			
10/3/2017						<0.04		
10/4/2017								
10/5/2017		0.851	2.53					
10/6/2017								
10/9/2017	2.76							
10/10/2017				0.0124 (J)				
10/11/2017							0.0135 (J)	
10/12/2017								0.0401
10/16/2017					<0.04			
11/20/2017							0.0251 (J)	0.156
1/10/2018								0.15
1/11/2018							0.0255 (J)	
2/19/2018					<0.04			0.146
2/20/2018							<0.04	
4/2/2018				0.013 (J)				
4/3/2018							0.033 (J)	0.12
6/5/2018								
6/6/2018								
6/7/2018						<0.04		
6/8/2018								
6/11/2018		0.9						
6/12/2018	2.9		2.8					
6/13/2018								
6/28/2018							0.053	0.16
8/6/2018					<0.04			
8/7/2018							0.024 (J)	0.12
9/19/2018				0.012 (J)				
9/24/2018							0.028 (J)	0.099
9/25/2018								
9/26/2018								
10/1/2018						<0.04		
10/2/2018		0.81						
10/3/2018	2.4		2.3					
2/25/2019					<0.04			
3/26/2019								0.096
3/27/2019				0.013 (J)			0.017 (J)	
3/28/2019								
3/29/2019						0.0065 (J)		
4/1/2019		0.85	2.7					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	2.9							
4/3/2019								
6/12/2019					<0.04			
9/24/2019						0.0076 (J)		
9/25/2019		0.73						
9/26/2019	2.5		2.8					
10/8/2019				0.012 (J)	<0.04			
10/9/2019							0.017 (J)	0.079
3/17/2020				0.023 (J)	0.0051 (J)			
3/18/2020								
3/19/2020	2.5		2.4			0.0073 (J)		
3/20/2020		0.8						
3/24/2020								0.088 (J)
3/25/2020							0.043 (J)	
9/22/2020				0.0076 (J)	0.0079 (J)			
9/23/2020						<0.04		
9/24/2020	2.6	0.84	2.1				0.037 (J)	0.087 (J)
9/25/2020								
3/1/2021				0.013 (J)				
3/2/2021					<0.04			
3/3/2021	2.3	0.62	1.8			<0.04		
3/4/2021							0.033 (J)	0.078
8/19/2021				0.011 (J)				
8/20/2021	2.5	0.66	2.3		<0.04			
8/26/2021							0.095	
8/27/2021						<0.04		
9/1/2021								
9/3/2021								0.077
2/8/2022	2.4	0.71	2.4	0.015 (J)	<0.04		0.13	0.074
2/9/2022						<0.04		
2/10/2022								
2/11/2022								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
6/1/2016	21	2.5	12						
6/2/2016				1.3	8.8	33	28	2.4	1.3
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	20.3	2.16							1.17
7/26/2016			11	1.24	7.69	32.3	24.5	2.12	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		2.21	11.8						
9/14/2016	19.7				8.49	31		2.18	
9/15/2016				1.17			27		
9/16/2016									
9/19/2016									1.05
9/20/2016									
9/21/2016									
11/1/2016	18.4		11				25.6		1.14
11/2/2016				1.23	7.83	30.9			
11/3/2016									
11/4/2016		2.67						2.17 (J)	
11/7/2016									
11/8/2016									
11/14/2016									
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
1/18/2017									
1/19/2017									
2/21/2017									1.25
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	18.6								
3/2/2017		2.57	11				27.5		
3/3/2017									
3/6/2017					8.64				
3/7/2017						32.7		2.34	
3/8/2017				1.21					
4/26/2017	25.6			1.14			30.4		1.03
4/27/2017		2.38	11.1						
4/28/2017									
5/1/2017					13.4	37			
5/2/2017								2.17	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
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				1.24					1.13
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		2.21	14			30.9		2.15	
10/4/2017	22.1						29.7		1.09
10/5/2017				1.11	9.29				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			15.2 (J)						
6/6/2018		2.3				26.2			
6/7/2018					8.2		29.1	2.3	
6/8/2018	21.9 (J)			1.1					
6/11/2018									1.1
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					9.5 (J)	25.8		2.3	
10/1/2018	19.7	1.8	15.1	0.99			26.9		
10/2/2018									1.1
10/3/2018									
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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					8.4	24.7 (J)		2.8	
6/12/2019									
9/24/2019		2.3	15.8			25.8		2.5	
9/25/2019	22.4			1.1	9.5		29.5		1.1
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		2.1		1.1					
3/19/2020	21.9		15				31.5		1.2
3/20/2020									
3/24/2020						26.1		2.5	
3/25/2020					10.5				
9/22/2020					9.6	27.2		2.6	
9/23/2020	23.6	1.8	14.1				28.6		
9/24/2020									1.1
9/25/2020				1.3					
3/1/2021									1.2
3/2/2021				1.2		1.6		2.6	
3/3/2021	20.6	1.8	14.1		7.7		29.8		
3/4/2021									
8/19/2021		2	14.2	1.2			28.1		1.2
8/20/2021									
8/26/2021					7.6	25.2		2.5	
8/27/2021	24.7								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	23.7	2.1	14.9				30.3		
2/10/2022				1.3		24.8		2.5	
2/11/2022					7.5				1.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			2.2	3.7	2.3				
6/8/2016						44	15	13	25
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2		2.08				
7/28/2016				3.15					
8/1/2016						36.3	14.5	12.2	21.4
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.5		1.97						
9/19/2016		4.76		3.17	1.97				
9/20/2016						39.5	15.3	12.2	26.3
9/21/2016									
11/1/2016									
11/2/2016					2.13				
11/3/2016	1.31	5.25	1.99	3.4					
11/4/2016									
11/7/2016						34.9	13.8	12.1	26.1
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.25	4.74	2.28						
1/12/2017									
1/13/2017				4.98	2.45				
1/16/2017									
1/18/2017							15.1	11.5	25.6
1/19/2017						37			
2/21/2017							14.6	11.7	
2/22/2017						37.6			
2/23/2017									28.2
2/24/2017									
3/1/2017	1.26	5.37							
3/2/2017			2.15						
3/3/2017									
3/6/2017				6.28	2.48				
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28		6.65	2.3				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			1.95						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								11.9	
5/5/2017									
5/8/2017						35.7	15.2		27.2
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							
6/29/2017			2.02	6.04	2.54				
6/30/2017						36.2			27.2
7/5/2017									
7/7/2017									
7/10/2017							17.4	12.7	
7/11/2017									
7/17/2017									
10/3/2017				8.28					
10/4/2017	1.1		2.03		2.25				
10/5/2017		5.28							
10/6/2017						39.8			
10/9/2017									27.3
10/10/2017							15.5	11.4	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
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						36.2			
6/13/2018							15.5	12.5	29.4
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1	4.6	2.1	10.4 (J)	2.3				
9/26/2018									
10/1/2018									
10/2/2018						39.1	14.7	12.4 (J)	29.2
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						38			27.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019			2.5	8.8			16.1 (J)	11.9 (J)	
4/3/2019	1.2	5.3			2.9				
6/12/2019									
9/24/2019				7.7					
9/25/2019			2.6		2.4		15.6	11.6	
9/26/2019	1.1	4.9				37.5			24.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								13	
3/20/2020						42.1	17.1		30.3
3/24/2020	1	5.3	2.7	6	2.6				
3/25/2020									
9/22/2020									
9/23/2020	0.91 (J)	5.2	2.6						
9/24/2020				7.8	2.6	38.6	16.9	11.3	27.9
9/25/2020									
3/1/2021									
3/2/2021								12.9	
3/3/2021	0.96 (J)	5.2	2.5		2.4	30.2	16.1		25.7
3/4/2021				8.7					
8/19/2021								11.5	
8/20/2021						29.9	17.2		25.7
8/26/2021	0.98 (J)								
8/27/2021		5.1	2.7		2.4				
9/1/2021				9.5					
9/3/2021									
2/8/2022						27.2			
2/9/2022	0.87 (J)	5.1	2.8	9.8	2.3				
2/10/2022							16.4	11.6	27.4
2/11/2022									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	26	12	36					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	25.8	11.7	35.5					
8/30/2016				20.9				
8/31/2016					9.31			
9/13/2016								
9/14/2016						23.5		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	24.9	11.1	33.2					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						23.7		
11/7/2016	25.1	11.4						
11/8/2016			33.8					
11/14/2016				18.6				
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		
1/18/2017	26.1		33.4					
1/19/2017		12						
2/21/2017	29							
2/22/2017		11.2	33.8		10.4			
2/23/2017								
2/24/2017				16.1				
3/1/2017								
3/2/2017								
3/3/2017						25.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						30.7		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	28.1		33.5					
5/8/2017		11.2		14.6	14.2			
5/26/2017						26.2		
6/27/2017								
6/28/2017						26.1		
6/29/2017								
6/30/2017								
7/5/2017		11.9	33.4					
7/7/2017	28.6							
7/10/2017								
7/11/2017				14.3				
7/17/2017					14.1			
10/3/2017						26.7		
10/4/2017								
10/5/2017		12	36.4					
10/6/2017								
10/9/2017	27.3							
10/10/2017				12.1				
10/11/2017							2.74	
10/12/2017								2.9
10/16/2017					13.6			
11/20/2017							1.81	10.4
1/10/2018								10.2
1/11/2018							1.54	
2/19/2018					<25			<25
2/20/2018							1.71	
4/2/2018				<25				
4/3/2018							1.4	6.3
6/5/2018								
6/6/2018								
6/7/2018						25		
6/8/2018								
6/11/2018		12.1						
6/12/2018	26.4		33.4					
6/13/2018								
6/28/2018							1.4	6.7
8/6/2018					11.4 (J)			
8/7/2018							1.2	6.3
9/19/2018				11.1 (J)				
9/24/2018							1.1	5.7
9/25/2018								
9/26/2018								
10/1/2018						25		
10/2/2018		11.7 (J)						
10/3/2018	25.8		32.6					
2/25/2019					12.7 (J)			
3/26/2019								5.6
3/27/2019				10.8 (J)			1.5	
3/28/2019								
3/29/2019						23.5 (J)		
4/1/2019		11.9 (J)	33.8					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	25.7							
4/3/2019								
6/12/2019					18.9			
9/24/2019						26.4		
9/25/2019		10.7						
9/26/2019	26.1		32					
10/8/2019				9.7	28.3			
10/9/2019							2.4	4.9
3/17/2020				14.8	24.3			
3/18/2020								
3/19/2020	30.4		37.3			27.4		
3/20/2020		12.7						
3/24/2020								4.8
3/25/2020							2.7	
9/22/2020				10.1	31			
9/23/2020						26.3		
9/24/2020	30.8	12.4	34.3				3.7	4.4
9/25/2020								
3/1/2021				10.3				
3/2/2021					34.2			
3/3/2021	28.4	9.5	30.9			25.6		
3/4/2021							8.2	4.6
8/19/2021				9.6				
8/20/2021	27.8	10.2	33.1		26.5			
8/26/2021							14.1	
8/27/2021						22.6		
9/1/2021								
9/3/2021								5.6
2/8/2022	26.7	9.3	31.8	9.4	25.6		15.2	6
2/9/2022						23.4		
2/10/2022								
2/11/2022								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				4.1	3.7	7.2	1.4	4.3	1.9
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	1.3	1.4							1.7
7/26/2016			1.2	4	3.6	6.6	1.6	4.4	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		1.3	1.1						
9/14/2016	1.3				3.4	6.6		3.8	
9/15/2016				4.2			1.5		
9/16/2016									
9/19/2016									1.6
9/20/2016									
9/21/2016									
11/1/2016	1.4		1.3				1.7		1.8
11/2/2016				4.9	4.5	7.6			
11/3/2016									
11/4/2016		1.6						4.8	
11/7/2016									
11/8/2016									
11/14/2016									
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
1/18/2017									
1/19/2017									
2/21/2017									1.7
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	1.1								
3/2/2017		1.3	1				1.2		
3/3/2017									
3/6/2017					3.6				
3/7/2017						6.8		4.5	
3/8/2017				4.2					
4/26/2017	1.1			4.1			1.2		1.7
4/27/2017		1.3	1						
4/28/2017									
5/1/2017					4.3	7.2			
5/2/2017								4.6	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
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				3.7					1.8
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		1.7	1.1			6.5		4.2	
10/4/2017	1.2						1.5		1.8
10/5/2017				3.8	4.7				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			1.1						
6/6/2018		1.4				4.7			
6/7/2018					4.4		1.2	4.5	
6/8/2018	1.2			3.4					
6/11/2018									2
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					4.8	4.8		5.1	
10/1/2018	1.2	1.4	1.1	3.8			1.5		
10/2/2018									1.8
10/3/2018									
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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					4.3	4		4.2	
6/12/2019									
9/24/2019		1.3	1.1			3.7		4.5	
9/25/2019	1.1			4.8	4.5		1.1		1.6
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		1.4		5.2					
3/19/2020	1.1		1.1				1.2		1.8
3/20/2020									
3/24/2020						3.5		4.3	
3/25/2020					3.9				
9/22/2020					4.5	3.6		4.2	
9/23/2020	1	1.2	0.99 (J)				1.1		
9/24/2020									1.5
9/25/2020				5.3					
3/1/2021									1.6
3/2/2021				4.9		3.2		4.3	
3/3/2021	0.99 (J)	1.2	0.96 (J)		4.1		1.1		
3/4/2021									
8/19/2021		1.3	1.1	5			1.1		1.6
8/20/2021									
8/26/2021					4.4	3.4		4.3	
8/27/2021	1.1								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1.1	1.3	1				1.1		
2/10/2022				4.7		3.2		4.4	
2/11/2022					4.1				2.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			4.5	2.8	1.9				
6/8/2016						22	19	18	14
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	4.5		1.9				
7/28/2016				2.6					
8/1/2016						21	17	16	13
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1		4.5						
9/19/2016		7		2.4	1.9				
9/20/2016						22	18	18	13
9/21/2016									
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.4	7.5	5.4	2.9					
11/4/2016									
11/7/2016						24	17	16	14
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5	4.7						
1/12/2017									
1/13/2017				2.5	2.3				
1/16/2017									
1/18/2017							19	17	14
1/19/2017						22			
2/21/2017							18	16	
2/22/2017						21			
2/23/2017									14
2/24/2017									
3/1/2017	6	6.9							
3/2/2017			4.8						
3/3/2017									
3/6/2017				2.1	1.9				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7		2.1	2				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			4.6						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								17	
5/5/2017									
5/8/2017						22	18		14
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							
6/29/2017			4.5	2.8	2.6				
6/30/2017						21			14
7/5/2017									
7/7/2017									
7/10/2017							19	15	
7/11/2017									
7/17/2017									
10/3/2017				2.2					
10/4/2017	6.8		4.7		2.6				
10/5/2017		7							
10/6/2017						21			
10/9/2017									14
10/10/2017							19	15	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
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						19.8			
6/13/2018							18.1	14.2	13.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	7.8	7.9	5.6	2.2	3.6				
9/26/2018									
10/1/2018									
10/2/2018						19.9	18.3	14	13.8
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						19.7			14.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019			4.8	2.5			17.9	13.5	
4/3/2019	6.3	6.9			3.1				
6/12/2019									
9/24/2019				3.1					
9/25/2019			5.7		2.8		17.1	14.4	
9/26/2019	7.1	7				19.6			14.3
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								15.4	
3/20/2020						17.7	17.7		13
3/24/2020	6.8	7	5	2.8	2.7				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2	6.6						
9/24/2020				2	2.7	17	17.1	15.7	13.3
9/25/2020									
3/1/2021									
3/2/2021								13.2	
3/3/2021	7.2	7	7.1		2.7	4	16.6		13
3/4/2021				1.8					
8/19/2021								13.5	
8/20/2021						15.2	14.4		13.7
8/26/2021	7.3								
8/27/2021		7.4	8.5		2.8				
9/1/2021				1.8					
9/3/2021									
2/8/2022						13			
2/9/2022	7	7.5	10.9	1.7	2.8				
2/10/2022							15.4	14	13.1
2/11/2022									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	19	15	18					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	18	14	18					
8/30/2016				5.2				
8/31/2016					4			
9/13/2016								
9/14/2016						1.1		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	19	14	18					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						1.4		
11/7/2016	20	14						
11/8/2016			18					
11/14/2016				6.4				
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		
1/18/2017	20		18					
1/19/2017		14						
2/21/2017	19							
2/22/2017		13	18		3.7			
2/23/2017								
2/24/2017				5.5				
3/1/2017								
3/2/2017								
3/3/2017						1.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						0.91		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	21		19					
5/8/2017		15		5.8	4.2			
5/26/2017						0.93		
6/27/2017								
6/28/2017						1		
6/29/2017								
6/30/2017								
7/5/2017		14	18					
7/7/2017	20							
7/10/2017								
7/11/2017				5.8				
7/17/2017					3.8			
10/3/2017						1.2		
10/4/2017								
10/5/2017		15	19					
10/6/2017								
10/9/2017	20							
10/10/2017				5.9				
10/11/2017							2.4	
10/12/2017								3.8
10/16/2017					4.2			
11/20/2017							1.8	4.4
1/10/2018								4.6
1/11/2018							1.6	
2/19/2018					4.3			4.6
2/20/2018							2	
4/2/2018				4.8				
4/3/2018							3.3	5.9
6/5/2018								
6/6/2018								
6/7/2018						1		
6/8/2018								
6/11/2018		13.6						
6/12/2018	19.3		17.6					
6/13/2018								
6/28/2018							2.1	5
8/6/2018					3.8			
8/7/2018							1.2	4.3
9/19/2018				4				
9/24/2018							1.3	4.9
9/25/2018								
9/26/2018								
10/1/2018						1.1		
10/2/2018		13.4						
10/3/2018	20.2		17.7					
2/25/2019					4.1			
3/26/2019								4.4
3/27/2019				4.3			1.4	
3/28/2019								
3/29/2019						1.2		
4/1/2019		13.1	17.2					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	19.5							
4/3/2019								
6/12/2019					4.7			
9/24/2019						0.95 (J)		
9/25/2019		11.3						
9/26/2019	19.5		17.3					
10/8/2019				4.4	5.1			
10/9/2019							2.1	5.1
3/17/2020				4.1	4.8			
3/18/2020								
3/19/2020	18.1		16			0.97 (J)		
3/20/2020		11.3						
3/24/2020								4.7
3/25/2020							1.9	
9/22/2020				4.2	4.2			
9/23/2020						0.88 (J)		
9/24/2020	18	10.9	15.1				2.7	5
9/25/2020								
3/1/2021				3.7				
3/2/2021					4.1			
3/3/2021	18	6.7	14.6			0.86 (J)		
3/4/2021							4.9	4.9
8/19/2021				3.5				
8/20/2021	18.1	6.8	15.2		5.2			
8/26/2021							7.2	
8/27/2021						0.99 (J)		
9/1/2021								
9/3/2021								5.5
2/8/2022	18.3	5.5	15.2	3.2	5.7		7.4	6.2
2/9/2022						1 (J)		
2/10/2022								
2/11/2022								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
6/1/2016	<0.1	0.15 (J)	0.12 (J)						
6/2/2016				<0.1	0.11 (J)	<0.1	<0.1	0.62	<0.1
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	0.06 (J)	0.14 (J)				0.06 (J)			
7/26/2016			0.08 (J)	<0.1	0.05 (J)		<0.1	0.49	0.02 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
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									
9/21/2016									
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					
11/7/2016									
11/8/2016									
11/14/2016									
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				<0.1	0.04 (J)				
1/13/2017							<0.1		
1/16/2017	<0.1					<0.1			
1/18/2017									
1/19/2017									
2/21/2017						<0.1			
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		<0.1							
3/2/2017	<0.1		<0.1					0.48	
3/3/2017									
3/6/2017							<0.1		
3/7/2017				<0.1	<0.1				
3/8/2017									<0.1
4/26/2017		0.08 (J)				<0.1		0.48	<0.1
4/27/2017	0.01 (J)		0.04 (J)						
4/28/2017									
5/1/2017					<0.1		<0.1		
5/2/2017				<0.1					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
5/3/2017									
5/5/2017									
5/8/2017									
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
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	<0.1		<0.1	<0.1	<0.1				
10/4/2017		<0.1				<0.1		<0.1	
10/5/2017							<0.1		<0.1
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018	<0.1					<0.1			<0.1
3/28/2018		<0.1						0.56	
3/29/2018			<0.1	<0.1	<0.1		<0.1		
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			0.055 (J)						
6/6/2018	<0.1				0.15 (J)				
6/7/2018				<0.1			<0.1	0.48	
6/8/2018		0.2 (J)							<0.1
6/11/2018						<0.1			
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				<0.1	<0.1		<0.1		
10/1/2018	<0.1	<0.1	<0.1					0.44	<0.1
10/2/2018						<0.1			
10/3/2018									
2/25/2019									
2/26/2019						<0.1			<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
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		
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	<0.1		0.063 (J)	<0.1	0.05 (J)				
9/25/2019		0.1 (J)				<0.1	<0.1	0.46	<0.1
9/26/2019									
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	<0.1	<0.1	0.4	<0.1
2/13/2020									
3/17/2020									
3/18/2020	<0.1								<0.1
3/19/2020		0.11 (J)	0.064 (J)			<0.1		0.51	
3/20/2020									
3/24/2020				<0.1	<0.1				
3/25/2020							<0.1		
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
2/8/2021				<0.1	0.055 (J)				
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			
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									
8/26/2021				<0.1	0.061 (J)		<0.1		
8/27/2021		0.12							
9/1/2021									
9/3/2021									
2/8/2022									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
2/9/2022	<0.1	0.097 (J)	0.057 (J)					0.43	
2/10/2022				<0.1	0.055 (J)				<0.1
2/11/2022						<0.1	<0.1		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
6/8/2016						<0.1	0.12 (J)	0.094 (J)	0.086 (J)
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1	<0.1					
7/28/2016					0.02 (J)				
8/1/2016						0.24 (J)	0.22 (J)	0.08 (J)	0.14 (J)
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	<0.1		<0.1						
9/19/2016		<0.1		<0.1	0.02 (J)				
9/20/2016						0.03 (J)	0.32	0.05 (J)	<0.1
9/21/2016									
11/1/2016									
11/2/2016				<0.1					
11/3/2016	<0.1	<0.1	<0.1		<0.1				
11/4/2016									
11/7/2016						0.44	<0.1 (*)	<0.1 (*)	<0.1 (*)
11/8/2016									
11/14/2016									
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									
1/18/2017						<0.1 (*)		0.11 (J)	<0.1 (*)
1/19/2017							0.25 (J)		
2/21/2017						<0.1 (*)		<0.1 (*)	
2/22/2017							0.21 (J)		
2/23/2017									<0.1 (*)
2/24/2017									
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									
4/26/2017	<0.1	<0.1		<0.1	0.04 (J)				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.1						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
5/3/2017						0.16 (J)			
5/5/2017									
5/8/2017							0.19 (J)	0.08 (J)	0.07 (J)
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							0.2 (J)		<0.1 (*)
7/5/2017									
7/7/2017									
7/10/2017						<0.1 (*)		<0.1 (*)	
7/11/2017									
7/17/2017									
10/3/2017					<0.1				
10/4/2017	<0.1		<0.1	<0.1					
10/5/2017		<0.1							
10/6/2017							<0.1 (*)		
10/9/2017									<0.1 (*)
10/10/2017						<0.1		<0.1	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1	<0.1						
3/29/2018				<0.1	<0.1		0.49		<0.1
3/30/2018						0.35		<0.1	
4/2/2018									
4/3/2018									
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							0.037 (J)		
6/13/2018						0.044 (J)		0.088 (J)	<0.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	<0.1	<0.1	<0.1	<0.1	0 (J)				
9/26/2018									
10/1/2018									
10/2/2018						<0.1	<0.1	<0.1	<0.1
10/3/2018									
2/25/2019									
2/26/2019									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
2/27/2019						<0.1	0.14 (J)	<0.1	<0.1
3/4/2019									
3/5/2019	<0.1		<0.1	<0.1	0.32				
3/6/2019		<0.1							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							0.088 (J)		0.034 (J)
4/2/2019			<0.1		0.12 (J)	<0.1		0.071 (J)	
4/3/2019	<0.1	<0.1		<0.1					
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019					0.15 (J)				
9/25/2019			<0.1	<0.1		<0.1		0.064 (J)	
9/26/2019	<0.1	<0.1					0.22 (J)		0.14 (J)
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020	<0.1	<0.1	<0.1						
2/12/2020				<0.1	0.1 (J)				
2/13/2020						<0.1	0.11 (J)	<0.1	<0.1
3/17/2020									
3/18/2020									
3/19/2020						<0.1			
3/20/2020							0.097 (J)	0.06 (J)	<0.1
3/24/2020	<0.1	<0.1	<0.1	<0.1	0.081 (J)				
3/25/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	<0.1	<0.1	<0.1						
9/24/2020				<0.1	0.079 (J)	<0.1	0.092 (J)	0.053 (J)	0.059 (J)
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1		<0.1	0.092 (J)				
2/10/2021						<0.1	0.084 (J)	0.05 (J)	0.055 (J)
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021						<0.1			
3/3/2021	<0.1	<0.1	<0.1	<0.1			<0.1	0.05 (J)	0.058 (J)
3/4/2021					0.091 (J)				
8/19/2021						<0.1			
8/20/2021							0.11	<0.1	0.091 (J)
8/26/2021	<0.1								
8/27/2021		<0.1	<0.1	<0.1					
9/1/2021					0.11				
9/3/2021									
2/8/2022							0.087 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
2/9/2022	<0.1	<0.1	<0.1	<0.1	0.1				
2/10/2022						<0.1		<0.1	0.059 (J)
2/11/2022									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	0.098 (J)	0.085 (J)	0.16 (J)					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	0.38	0.09 (J)	0.5					
8/30/2016				0.09 (J)				
8/31/2016					0.14 (J)			
9/13/2016								
9/14/2016						0.08 (J)		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	0.08 (J)	0.09 (J)	0.25 (J)					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.1		
11/7/2016		<0.1 (*)	0.27 (J)					
11/8/2016	0.24 (J)							
11/14/2016				0.18 (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)		
1/18/2017	0.12 (J)		0.34					
1/19/2017		<0.1 (*)						
2/21/2017			0.27 (J)					
2/22/2017	<0.1 (*)	<0.1 (*)			0.09 (J)			
2/23/2017								
2/24/2017				0.05 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						0.06 (J)		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	0.08 (J)		0.2 (J)					
5/8/2017		0.06 (J)		0.03 (J)	0.05 (J)			
5/26/2017						0.09 (J)		
6/27/2017								
6/28/2017						0.11 (J)		
6/29/2017								
6/30/2017								
7/5/2017	0.11 (J)	0.08 (J)						
7/7/2017			0.18 (J)					
7/10/2017								
7/11/2017				0.07 (J)				
7/17/2017					0.14 (J)			
10/3/2017						<0.1		
10/4/2017								
10/5/2017	<0.1 (*)	<0.1 (*)						
10/6/2017								
10/9/2017			<0.1 (*)					
10/10/2017				<0.1				
10/11/2017							<0.1	
10/12/2017								<0.1
10/16/2017					0.12 (J)			
11/20/2017							<0.1	<0.1
1/10/2018								<0.1
1/11/2018							<0.1	
2/19/2018					0.17			<0.1
2/20/2018							0.23	
3/27/2018								
3/28/2018						0.31		
3/29/2018		<0.1						
3/30/2018	<0.1		<0.1					
4/2/2018				<0.1				
4/3/2018							<0.1	<0.1
6/5/2018								
6/6/2018								
6/7/2018						0.11 (J)		
6/8/2018								
6/11/2018		<0.1						
6/12/2018	<0.1		0.13 (J)					
6/13/2018								
6/28/2018							<0.1	<0.1
8/6/2018					0.087 (J)			
8/7/2018							0.048 (J)	<0.1
9/19/2018				<0.1				
9/24/2018							<0.1	<0.1
9/25/2018								
9/26/2018								
10/1/2018						<0.1		
10/2/2018		<0.1						
10/3/2018	<0.1		0.31					
2/25/2019					0.14 (J)			
2/26/2019								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.14 (J)	0.15 (J)	0.22 (J)			0.12 (J)		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								<0.1
3/27/2019				0.081 (J)			<0.1	
3/28/2019								
3/29/2019						0.13 (J)		
4/1/2019	0.078 (J)	0.059 (J)						
4/2/2019			0.14 (J)					
4/3/2019								
6/12/2019					0.12 (J)			
8/19/2019					<0.1			
8/20/2019				<0.1				
8/21/2019							<0.1	<0.1
9/24/2019						0.081 (J)		
9/25/2019		0.054 (J)						
9/26/2019	0.29 (J)		0.28 (J)					
10/8/2019				0.034 (J)	0.052 (J)			
10/9/2019							<0.1	<0.1
2/10/2020								
2/11/2020						0.075 (J)		
2/12/2020							<0.1	<0.1
2/13/2020	0.14 (J)	0.053 (J)	0.18 (J)					
3/17/2020				<0.1	0.053 (J)			
3/18/2020								
3/19/2020	0.07 (J)		0.16 (J)			0.093 (J)		
3/20/2020		0.057 (J)						
3/24/2020								<0.1
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						0.08 (J)		
9/24/2020	0.073 (J)	0.06 (J)	0.16				<0.1	<0.1
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021						0.094 (J)	<0.1	<0.1
2/11/2021	0.066 (J)							
2/12/2021		0.17	0.069 (J)					
3/1/2021				<0.1				
3/2/2021					0.073 (J)			
3/3/2021	0.072 (J)	0.056 (J)	0.13			0.085 (J)		
3/4/2021							<0.1	<0.1
8/19/2021				<0.1				
8/20/2021	0.11	0.069 (J)	0.2		0.06 (J)			
8/26/2021							0.063 (J)	
8/27/2021						0.12		
9/1/2021								
9/3/2021								<0.1
2/8/2022	0.063 (J)	0.053 (J)	0.14	<0.1	0.064 (J)		0.052 (J)	<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/9/2022						0.094 (J)		
2/10/2022								
2/11/2022								

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64								
6/1/2016		7.72	7.46	6.33					
6/2/2016					7.84	5.46	5.75	7.67	6.36
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		7.74		6.21					
7/26/2016			7.43		7.88	5.45	5.72	7.66	6.22
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
9/13/2016			7.44	6.16					
9/14/2016		7.65					5.74	7.6	6.23
9/15/2016					7.74	5.45			
9/16/2016									
9/19/2016									
9/20/2016									
9/21/2016									
11/1/2016		7.7	7.24		7.75				
11/2/2016						5.41		7.35	6.08
11/3/2016									
11/4/2016				6.29			5.61		
11/7/2016									
11/8/2016									
11/14/2016									
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							5.71	7.49	
1/13/2017									6.19
1/16/2017				6.29					
1/18/2017									
1/19/2017									
2/21/2017									
2/22/2017	6.21								
2/23/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
2/24/2017									
3/1/2017		7.42							
3/2/2017			7.23	6.28	7.68				
3/3/2017									
3/6/2017									6.2
3/7/2017							5.66	7.43	
3/8/2017						5.41			
4/26/2017		7.4			7.45	5.02			
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017								7.22	6.21
5/2/2017							5.65		
5/3/2017									
5/5/2017									
5/8/2017	6.12								
5/26/2017									
6/27/2017			6.87	6.21			5.7	7.32	
6/28/2017		7.5			7.65				
6/29/2017									6.21
6/30/2017						5.39			
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017	6.03								
10/3/2017			6.81	5.98			5.79	7.48	
10/4/2017		7.45			7.49				
10/5/2017						5.49			6.16
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25		5.47			
3/28/2018		7.74			7.91				
3/29/2018			7.38				5.63	7.02	6.09
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			7.16						
6/6/2018				6.17				7.43	
6/7/2018					7.69		5.63		6.12
6/8/2018		7.64				5.45			
6/11/2018									
6/12/2018									
6/13/2018									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018							5.63	7.13	5.84
10/1/2018		7.47	6.8	5.9	7.39	5.39			
10/2/2018									
10/3/2018									
2/25/2019	6.51								
2/26/2019						5.46			
2/27/2019		7.54	6.84	5.8	7.55				
3/4/2019							5.75	7.46	6.18
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019			6.99	6.15					
3/29/2019						5.34			
4/1/2019		7.74			7.87				
4/2/2019									
4/3/2019							5.63	7.11	6.43
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
9/24/2019			7.07	6.23			5.6	6.93	
9/25/2019		7.47			7.64	5.19			6.2
9/26/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020			7.2	6.1					
2/11/2020		7.09							
2/12/2020					7.83	5.48	5.83	7.52	6.15
2/13/2020									
3/17/2020	6.14								
3/18/2020				6.19		5.38			
3/19/2020		7.31	7.03		7.65				
3/20/2020									
3/24/2020							5.81	7.34	
3/25/2020									6.26
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78						5.99	7.19	5.8
9/23/2020		7.37	7.15	6.01	7.57				
9/24/2020									
9/25/2020						5.44			
2/8/2021							5.67		
2/9/2021									6.06
2/10/2021		7.58			7.81	5.35			

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
2/11/2021									
2/12/2021			7.14	6.21					
3/1/2021									
3/2/2021	5.42					5.49	5.63	7.15	
3/3/2021		8.23	7.2	5.38	8.39				6.21
3/4/2021									
8/19/2021			6.32	6.38	5.34	7.32			
8/20/2021	5.86								
8/26/2021							5.51	7.16	5.82
8/27/2021		7.39							
9/1/2021									
9/3/2021									
2/8/2022	5.83								
2/9/2022		7.66	7.12	6.24	7.97				
2/10/2022						4.5	5.14	6.99	
2/11/2022									5.95

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
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		6.17	5.71						
6/7/2016				5.62	5.77	6.1			
6/8/2016							6.32	6.24	5.85
6/9/2016									
7/25/2016	5.82								
7/26/2016									
7/27/2016		6.14	5.46	5.59	5.79				
7/28/2016						6.12			
8/1/2016							6.34	6.12	5.83
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016				5.58					
9/19/2016	5.78 (D)	6.04	5.59		5.73	6.12			
9/20/2016							6.36	6.3	5.89
9/21/2016									
11/1/2016	5.62								
11/2/2016					5.67				
11/3/2016		5.97	5.39	5.59		6.07			
11/4/2016									
11/7/2016							6.3	6.25	5.91
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		6.05	5.48	5.59					
1/12/2017									
1/13/2017					5.79	6.41			
1/16/2017	5.72								
1/18/2017							6.31		5.84
1/19/2017								6.2	
2/21/2017	5.67								5.79
2/22/2017								6.14	
2/23/2017							6.18		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
2/24/2017									
3/1/2017		5.94	5.41						
3/2/2017				5.54					
3/3/2017									
3/6/2017					5.63	6.34			
3/7/2017									
3/8/2017									
4/26/2017	5.56	5.99	5.4		5.66	6.32			
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5.47					
5/3/2017									
5/5/2017									
5/8/2017							6.24	6.11	5.84
5/26/2017									
6/27/2017									
6/28/2017		6	5.36						
6/29/2017				5.56	5.85	6.47			
6/30/2017	5.72						6.21	6.17	
7/5/2017									
7/7/2017									
7/10/2017									5.92
7/11/2017									
7/17/2017									
10/3/2017						6.56			
10/4/2017	5.87		5.32	5.57	5.83				
10/5/2017		6.11							
10/6/2017								6.13	
10/9/2017							6.26		
10/10/2017									5.84
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018	5.83								
3/28/2018		6.1	5.34	5.59					
3/29/2018					5.93	6.75	6.36	6.25	
3/30/2018									6.19
4/2/2018									
4/3/2018									
6/5/2018						6.09			
6/6/2018					5.86				
6/7/2018		5.98							
6/8/2018									
6/11/2018	5.69		5.28	5.58					
6/12/2018								6.22	
6/13/2018							6.28		5.82

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018		5.81	4.86	5.59	5.84	6.67			
9/26/2018									
10/1/2018									
10/2/2018	5.39						5.9	5.99	5.81
10/3/2018									
2/25/2019									
2/26/2019	5.77								
2/27/2019							6.31	6.26	5.79
3/4/2019									
3/5/2019			5.26	5.48	6.07	7.22			
3/6/2019		5.99							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019	5.62						6.43	6.4	
4/2/2019				5.74		6.94			5.87
4/3/2019		6.29	5.47		5.71				
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019						6.87			
9/25/2019	5.69			5.49	5.86				5.79
9/26/2019		6.04	5.2				6.3	6.22	
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		6.07	5.3	5.58					
2/12/2020	5.8				6	7.13			
2/13/2020							6.4	6.31	5.93
3/17/2020									
3/18/2020									
3/19/2020	6								
3/20/2020							6.32	6.18	5.94
3/24/2020		5.98	5.33	5.57	5.86	6.35			
3/25/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020		6.01	5.29	5.58					
9/24/2020	5.67				5.8	6.7	6.36	6.27	5.86
9/25/2020									
2/8/2021									
2/9/2021		6.12	5.43		5.86	6.95			
2/10/2021							6.29	6.21	5.96

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
2/11/2021	5.73								
2/12/2021									
3/1/2021	5.78								
3/2/2021									
3/3/2021		5.89	5.31	5.52	5.89		6.43	6.35	5.93
3/4/2021						6.8			
8/19/2021									
8/20/2021							6.17	6.18	5.78
8/26/2021			4.4						
8/27/2021		5.4		5.27	5.57				
9/1/2021						6.65			
9/3/2021									
2/8/2022								6.22	
2/9/2022		5.98	5.28	5.53	5.91	6.84			
2/10/2022							6.23		5.84
2/11/2022	5.59								

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	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	5.24							
6/9/2016		6.39	6.19	6.42				
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016	5.17							
8/2/2016		6.35	6.17	6.43				
8/30/2016					5.75			
9/13/2016						7.41		
9/14/2016								
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016	5.35							
9/21/2016		6.39	6.2	6.45				
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						7.12		
11/7/2016	5.35	6.36	6.1					
11/8/2016				6.37				
11/14/2016					5.59			
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		
1/18/2017	5.2	6.23		6.27				
1/19/2017			6.22					
2/21/2017	5.14	6.42						
2/22/2017			6.12	6.35				
2/23/2017								

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/24/2017					5.49			
3/1/2017								
3/2/2017								
3/3/2017						7.22		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						7.21		
5/1/2017								
5/2/2017								
5/3/2017	5.28							
5/5/2017		6.4		6.36				
5/8/2017			6.11		5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017								
7/5/2017			6.17	6.4				
7/7/2017		6.46						
7/10/2017	5.25							
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017			6.17	6.43				
10/6/2017								
10/9/2017		6.37						
10/10/2017	5.17				5.49			
10/11/2017							6.4	
10/12/2017								5.43
10/16/2017								
11/20/2017							6.33	5.1
1/10/2018								4.97
1/11/2018							6.29	
2/19/2018								5.6
2/20/2018							7.22	
3/27/2018								
3/28/2018						7.3		
3/29/2018			6.09					
3/30/2018	5.19	6.35		6.39				
4/2/2018					6.3 (o)			
4/3/2018							6.87	5.84
6/5/2018								
6/6/2018								
6/7/2018						7.29		
6/8/2018								
6/11/2018			6.17					
6/12/2018		6.47		6.42				
6/13/2018	5.12							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/28/2018							6.18	5.24
8/6/2018								
8/7/2018							6.08	5.18
9/19/2018					5.48			
9/24/2018							5.81	5.14
9/25/2018								
9/26/2018								
10/1/2018						7.07		
10/2/2018	4.95		6.17					
10/3/2018		6.01		6.21				
2/25/2019								
2/26/2019								
2/27/2019	5	6.38	6.19	6.32		7.27		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								5.3
3/27/2019					5.83		5.84	
3/28/2019								
3/29/2019						7.06		
4/1/2019			6.03	6.3				
4/2/2019	5.13	6.7						
4/3/2019								
6/12/2019								
8/19/2019								
8/20/2019					5.58			
8/21/2019							5.96	5.26
9/24/2019						7.01		
9/25/2019	5.24		6.21					
9/26/2019		6.47		6.43				
10/8/2019					5.59			
10/9/2019							5.81	5.22
2/10/2020								
2/11/2020						7.38		
2/12/2020							5.97	5.3
2/13/2020	5.29	6.53	6.32	6.49				
3/17/2020					5.57			
3/18/2020								
3/19/2020	5.46	6.98		7.01		7.22		
3/20/2020			6.17					
3/24/2020								5.29
3/25/2020							5.78	
5/6/2020								
8/26/2020								
8/27/2020					4.88			
9/22/2020					5.46			
9/23/2020						7.22		
9/24/2020	5.46	6.53	6.2	6.41			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	5.18					7.29	5.8	5.19

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/2021				6.57				
2/12/2021		6.6	6.24					
3/1/2021					5.48			
3/2/2021	5.38							
3/3/2021		6.61	6.27	6.51		7.92		
3/4/2021							5.54	5.23
8/19/2021	5.12				5.5			
8/20/2021		6.38	6.07	6.23				
8/26/2021							6.91	
8/27/2021						7.14		
9/1/2021								
9/3/2021								4.75
2/8/2022		6.3	5.88	6.34	5.4		5.78	5.26
2/9/2022						5.89		
2/10/2022	5.31							
2/11/2022								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
6/1/2016	12	4.2	5						
6/2/2016				6.6	8	20	5.8	1.9	1.3
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	8.4	3.7							1.2
7/26/2016			5.4	6.1	7.7	20	6.7	1.8	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		5.2	2.9						
9/14/2016	8.6				7.5	19		1.8	
9/15/2016				6.1			6		
9/16/2016									
9/19/2016									1.2
9/20/2016									
9/21/2016									
11/1/2016	8.9		3.9				4.9		1.3
11/2/2016				6.3	8.2	20			
11/3/2016									
11/4/2016		5						2	
11/7/2016									
11/8/2016									
11/14/2016									
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
1/18/2017									
1/19/2017									
2/21/2017									1.4
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	9.3								
3/2/2017		7.4	4.6				4.4		
3/3/2017									
3/6/2017					8				
3/7/2017						20		2.1	
3/8/2017				7					
4/26/2017	11			7			5.1		1.4
4/27/2017		7.4	5.2						
4/28/2017									
5/1/2017					8.4	20			
5/2/2017								2	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
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				6.5					<1
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		5.9	6.6			16		2.3	
10/4/2017	12						6.2		1.4
10/5/2017				7.9	9.6				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			6.4						
6/6/2018		4.4				8.3			
6/7/2018					8.5		6.7	2	
6/8/2018	9.6			6.4					
6/11/2018									1.1
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					10.2	7.9		2.3	
10/1/2018	9.1	4	5.6	6.8			7.1		
10/2/2018									1
10/3/2018									
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)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					8.5	7		2.1	
6/12/2019									
9/24/2019		4.3	5.3			5.5		2.4	
9/25/2019	13.8			6.6	8.5		7		0.81 (J)
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		5.3		8.1					
3/19/2020	12.9		10				9		1.6
3/20/2020									
3/24/2020						5.9		2.1	
3/25/2020					8.8				
9/22/2020					8.2	5.5		2.1	
9/23/2020	16.8	3.4	8.1				6.9		
9/24/2020									0.69 (J)
9/25/2020				6.1					
3/1/2021									0.88 (J)
3/2/2021				6		2.6		2.3	
3/3/2021	9.6	4.4	9		7.8		7		
3/4/2021									
8/19/2021		4.9	8.9	6.7			7.5		1
8/20/2021									
8/26/2021					8.5	6		2.4	
8/27/2021	18.2								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	16	5.1	9.3				7.2		
2/10/2022				6.2		4.9		2.4	
2/11/2022					7.7				2.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			4.4	5.2	<1				
6/8/2016						26	81	110	3.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	4.7		0.08 (J)				
7/28/2016				5.1					
8/1/2016						27	75	96	3.6
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.7		4.8						
9/19/2016		1.8		4.8	0.08 (J)				
9/20/2016						21	78	100	5.6
9/21/2016									
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	1.9	0.69 (J)	5.3	5					
11/4/2016									
11/7/2016						24	81	100	5.4
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1	5.2						
1/12/2017									
1/13/2017				4.3	<1				
1/16/2017									
1/18/2017							95	100	3.5
1/19/2017						25			
2/21/2017							80	96	
2/22/2017						24			
2/23/2017									4.9
2/24/2017									
3/1/2017	<1	1.8							
3/2/2017			5						
3/3/2017									
3/6/2017				4.5	<1				
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6		4.9	<1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			5						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								100	
5/5/2017									
5/8/2017						23	84		3.9
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	5.5	<1				
6/30/2017						23			5
7/5/2017									
7/7/2017									
7/10/2017							84	100	
7/11/2017									
7/17/2017									
10/3/2017				5.8					
10/4/2017	1.7		5.3		<1				
10/5/2017		1.6							
10/6/2017						23			
10/9/2017									5.1
10/10/2017							82	97	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
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						18.1			
6/13/2018							76.5	93.3	6.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1.5	1	6.1	7	0.13 (J)				
9/26/2018									
10/1/2018									
10/2/2018						20.2	83.9	99	6.1
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						18.3			4.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019			5.1	3.8			77.6	94.5	
4/3/2019	1.3	0.82 (J)			0.12 (J)				
6/12/2019									
9/24/2019				1					
9/25/2019			5.5		<1		80.1	97	
9/26/2019	1	0.64 (J)				18.2			4.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								99.4	
3/20/2020						21.1	84.7		5.2
3/24/2020	0.99 (J)	<1	5.4	3	<1				
3/25/2020									
9/22/2020									
9/23/2020	1.1	0.53 (J)	5.1						
9/24/2020				3.6	<1	16.6	85.6	92.3	3
9/25/2020									
3/1/2021									
3/2/2021								92.7	
3/3/2021	1	<1	5.2		<1	451	89.3		2.6
3/4/2021				4.5					
8/19/2021								86.5	
8/20/2021						18	84		2.9
8/26/2021	1.2								
8/27/2021		0.59 (J)	5.3		<1				
9/1/2021				5					
9/3/2021									
2/8/2022						16.3			
2/9/2022	1.1	0.51 (J)	4.8	3.9	<1				
2/10/2022							81.8	86.5	2.4
2/11/2022									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	5.2	33	8.7					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	4.5	32	7.5					
8/30/2016				160				
8/31/2016					29			
9/13/2016								
9/14/2016						9.4		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	<1 (*)	32	8					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						13		
11/7/2016	4.3	33						
11/8/2016			8.3					
11/14/2016				150				
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		
1/18/2017	2.7		8					
1/19/2017		32						
2/21/2017	3							
2/22/2017		31	8.2		43			
2/23/2017								
2/24/2017				120				
3/1/2017								
3/2/2017								
3/3/2017						8.8		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						10		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	<1 (*)		<1 (*)					
5/8/2017		32		120	60			
5/26/2017						12		
6/27/2017								
6/28/2017						11		
6/29/2017								
6/30/2017								
7/5/2017		31	8.1					
7/7/2017	2.7							
7/10/2017								
7/11/2017				110				
7/17/2017					63			
10/3/2017						7.9		
10/4/2017								
10/5/2017		31	8.6					
10/6/2017								
10/9/2017	2.9							
10/10/2017				93				
10/11/2017							20	
10/12/2017								17
10/16/2017					62			
11/20/2017							24	71
1/10/2018								66
1/11/2018							23	
2/19/2018					64.6			57.2
2/20/2018							20.6	
4/2/2018				88.8				
4/3/2018							24.5	49.4
6/5/2018								
6/6/2018								
6/7/2018						8.8		
6/8/2018								
6/11/2018		30.6						
6/12/2018	2.9		8.2					
6/13/2018								
6/28/2018							22	43.8
8/6/2018					42.1			
8/7/2018							20.7	40.5
9/19/2018				75				
9/24/2018							21.2	39.7
9/25/2018								
9/26/2018								
10/1/2018						9.1		
10/2/2018		30.8						
10/3/2018	2.1		8					
2/25/2019					42.1			
3/26/2019								34.3
3/27/2019				65.9			17.7	
3/28/2019								
3/29/2019						9		
4/1/2019		30.4	8.2					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	2.4							
4/3/2019								
6/12/2019					83.4			
9/24/2019						9.1		
9/25/2019		30						
9/26/2019	1.6		7.9					
10/8/2019				52.3	128			
10/9/2019							15	27.9
3/17/2020				71.6	98.6			
3/18/2020								
3/19/2020	1.7		9.1			12.4		
3/20/2020		33						
3/24/2020								25.2
3/25/2020							14.3	
9/22/2020				51.5	145			
9/23/2020						11.8		
9/24/2020	0.99 (J)	26.2	7.2				11.7	22.9
9/25/2020								
3/1/2021				51.6				
3/2/2021					156			
3/3/2021	4.9	26.6	8.6			10.6		
3/4/2021							12	21.5
8/19/2021				52.6				
8/20/2021	5.4	24.7	8.9		121			
8/26/2021							19.2	
8/27/2021						16.7		
9/1/2021								
9/3/2021								21.3
2/8/2022	10.5	22.9	8.1	50.9	107		14.6	17.9
2/9/2022						18		
2/10/2022								
2/11/2022								

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
6/1/2016	150	54	120						
6/2/2016				46	96	160	130	66	36
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	135	48							50
7/26/2016			94	54	92	177	141	78	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		67	105						
9/14/2016	127				102	187		73	
9/15/2016				54			153		
9/16/2016									
9/19/2016									35
9/20/2016									
9/21/2016									
11/1/2016	75		44				92		<25
11/2/2016				71	115	181			
11/3/2016									
11/4/2016		60						75	
11/7/2016									
11/8/2016									
11/14/2016									
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
1/18/2017									
1/19/2017									
2/21/2017									<25
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	182								
3/2/2017		61	98				117		
3/3/2017									
3/6/2017					159				
3/7/2017						257		108	
3/8/2017				178					
4/26/2017	92			52			181		55
4/27/2017		31	116						
4/28/2017									
5/1/2017					107	165			
5/2/2017								103	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		42	89			189		73	
6/28/2017	126						169		
6/29/2017					79				
6/30/2017				45					42
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		58	119			170		89	
10/4/2017	147						141		31
10/5/2017				40	95				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			127						
6/6/2018		96				151			
6/7/2018					90		95	142	
6/8/2018	158			114					
6/11/2018									59
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					116	144		86	
10/1/2018	138	60	117	50			165		
10/2/2018									57
10/3/2018									
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

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					111	142		83	
6/12/2019									
9/24/2019		54	124			129		79	
9/25/2019	159			64	117		157		51
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		35		57					
3/19/2020	148		116				146		47
3/20/2020									
3/24/2020						139		68	
3/25/2020					146				
9/22/2020					83	104		75	
9/23/2020	155	15	108				157		
9/24/2020									51
9/25/2020				54					
3/1/2021									23
3/2/2021				67		52		67	
3/3/2021	111	39	99		80		137		
3/4/2021									
8/19/2021		44	105	54			144		50
8/20/2021									
8/26/2021					93	123		86	
8/27/2021	155								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	145	57	105				154		
2/10/2022				56		127		77	
2/11/2022					102				66

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			28	60	38				
6/8/2016						210	220	200	190
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	35	94	74		74				
7/28/2016				81					
8/1/2016						209	211	191	191
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35		67						
9/19/2016		92		68	45				
9/20/2016						224	217	213	205
9/21/2016									
11/1/2016									
11/2/2016					53				
11/3/2016	48	104	41	61					
11/4/2016									
11/7/2016						291	301	284	264
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133	104						
1/12/2017									
1/13/2017				76	46				
1/16/2017									
1/18/2017							265 (D)	158 (D)	167 (D)
1/19/2017						215 (D)			
2/21/2017							158	137	
2/22/2017						262			
2/23/2017									253
2/24/2017									
3/1/2017	79	119							
3/2/2017			77						
3/3/2017									
3/6/2017				167	164				
3/7/2017									
3/8/2017									
4/26/2017	36	162		50	34				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			142						

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								269	
5/5/2017									
5/8/2017						187	207		174
5/26/2017									
6/27/2017									
6/28/2017	45	98							
6/29/2017			53	94	68				
6/30/2017						209			193
7/5/2017									
7/7/2017									
7/10/2017							219	183	
7/11/2017									
7/17/2017									
10/3/2017				149					
10/4/2017	45		61		54				
10/5/2017		104							
10/6/2017						183			
10/9/2017									185
10/10/2017							194	179	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				109					
6/6/2018					79				
6/7/2018		68							
6/8/2018									
6/11/2018	74		70						
6/12/2018						208			
6/13/2018							228	196	219
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	63	109	86	122	73				
9/26/2018									
10/1/2018									
10/2/2018						206	227	191	227
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						221			198

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019			72	134			223	224	
4/3/2019	63	89			57				
6/12/2019									
9/24/2019				157					
9/25/2019			81		75		225	190	
9/26/2019	72	126				225			198
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								194	
3/20/2020						182	211		195
3/24/2020	59	91	71	117	76				
3/25/2020									
9/22/2020									
9/23/2020	81	103	99						
9/24/2020				113	69	185	212	171	186
9/25/2020									
3/1/2021									
3/2/2021								154	
3/3/2021	37	95	57		53	178	205		173
3/4/2021				110					
8/19/2021								176	
8/20/2021						169	224		196
8/26/2021	31								
8/27/2021		112	93		67				
9/1/2021				137					
9/3/2021									
2/8/2022						159			
2/9/2022	60	103	81	131	72				
2/10/2022							207	168	190
2/11/2022									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	210	150	240					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	202	155	226					
8/30/2016				319				
8/31/2016					209			
9/13/2016								
9/14/2016						152		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	216	138	214					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						148		
11/7/2016	399	291						
11/8/2016			229					
11/14/2016				280				
11/28/2016					102			
12/15/2016						191		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						180		
1/18/2017	215 (D)		243 (D)					
1/19/2017		145 (D)						
2/21/2017	198							
2/22/2017		185	310		164			
2/23/2017								
2/24/2017				162				
3/1/2017								
3/2/2017								
3/3/2017						156		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						130		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	347		289					
5/8/2017		114		194	145			
5/26/2017						223		
6/27/2017								
6/28/2017						166		
6/29/2017								
6/30/2017								
7/5/2017		136	217					
7/7/2017	236							
7/10/2017								
7/11/2017				193				
7/17/2017					185			
10/3/2017						153		
10/4/2017								
10/5/2017		139	221					
10/6/2017								
10/9/2017	204							
10/10/2017				175				
10/11/2017							68	
10/12/2017								74
10/16/2017					218			
11/20/2017							139	179
1/10/2018								140
1/11/2018							153	
2/19/2018					173			119
2/20/2018							87	
4/2/2018				192				
4/3/2018							85	106
6/5/2018								
6/6/2018								
6/7/2018						146		
6/8/2018								
6/11/2018		156						
6/12/2018	243		234					
6/13/2018								
6/28/2018							88	112
8/6/2018					158			
8/7/2018							89	103
9/19/2018				186				
9/24/2018							82	107
9/25/2018								
9/26/2018								
10/1/2018						155		
10/2/2018		154						
10/3/2018	237		232					
2/25/2019					92			
3/26/2019								90
3/27/2019				170			75	
3/28/2019								
3/29/2019						150		
4/1/2019		147	238					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	<25							
4/3/2019								
6/12/2019					226			
9/24/2019						146		
9/25/2019		162						
9/26/2019	239		241					
10/8/2019				172	276			
10/9/2019							119	98
3/17/2020				165	185			
3/18/2020								
3/19/2020	202		212			148		
3/20/2020		137						
3/24/2020								84
3/25/2020							158	
9/22/2020				141	281			
9/23/2020						161		
9/24/2020	226	133	209				170	77
9/25/2020								
3/1/2021				145				
3/2/2021					296			
3/3/2021	217	110	184			138		
3/4/2021							168	57
8/19/2021				134				
8/20/2021	192	110	194		254			
8/26/2021							249	
8/27/2021						150		
9/1/2021								
9/3/2021								88
2/8/2022	216	120	206	151	283		248	93
2/9/2022						156		
2/10/2022								
2/11/2022								

FIGURE E.

Appendix III Trend Test Summary - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**-0.04006**	**-69**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-29I**	**-0.02921**	**-79**	**-68**	**Yes**	**18**	**0**	**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**
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05275**	**-85**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.03927**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.6877**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-27S**	**-1.358**	**-121**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28I**	**-0.5198**	**-92**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4996**	**-72**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.5046**	**109**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1624**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8339**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Test Summary - All Results

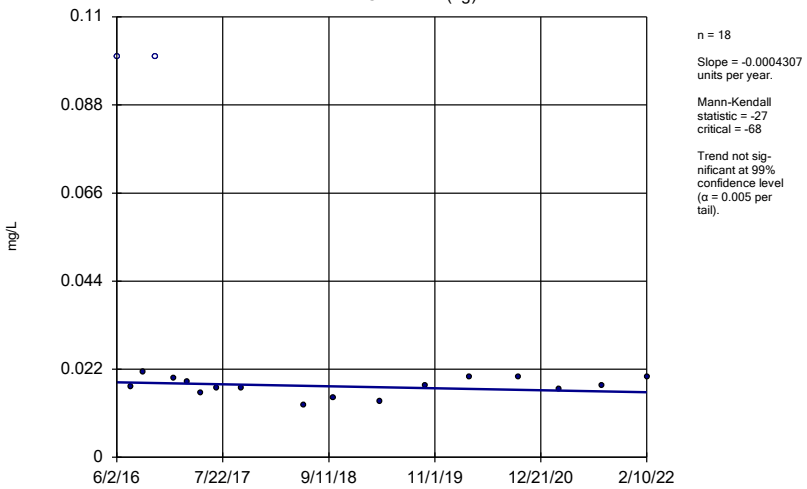
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
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
Boron (mg/L)	**YGWC-26I**	**-0.04006**	**-69**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-26S	0.01343	45	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.06976	49	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.03227	-34	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0	-1	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.002972	11	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWC-29I**	**-0.02921**	**-79**	**-68**	**Yes**	**18**	**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)	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)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1623	47	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.01968	-51	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02497	-49	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.03702	-46	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-15	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05275**	**-85**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.03927**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-26I	-0.4093	-64	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-26S**	**-0.6877**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-27I	0	-17	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-27S**	**-1.358**	**-121**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28I**	**-0.5198**	**-92**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-28S	-0.1931	-31	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4996**	**-72**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.5046**	**109**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.0841	61	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1771	67	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1624**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1442	-57	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.6239	40	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2865	51	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.08324	35	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8339**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	1	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2307	58	58	No	16	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.32 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 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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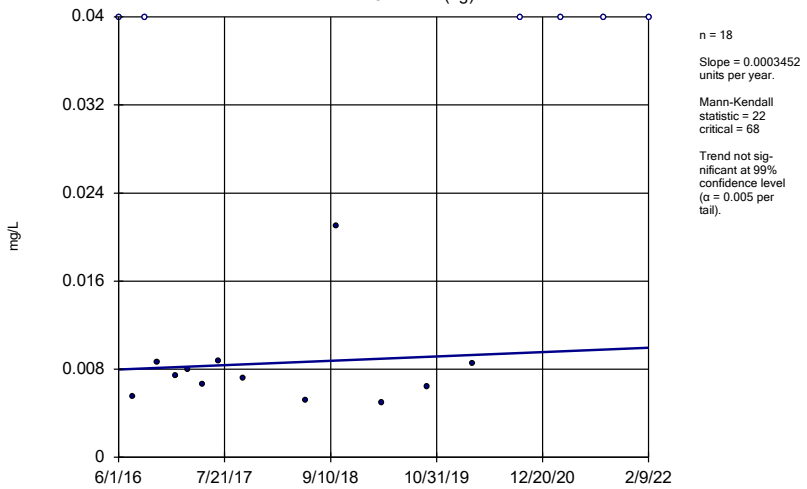
Hollow symbols indicate censored values.

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 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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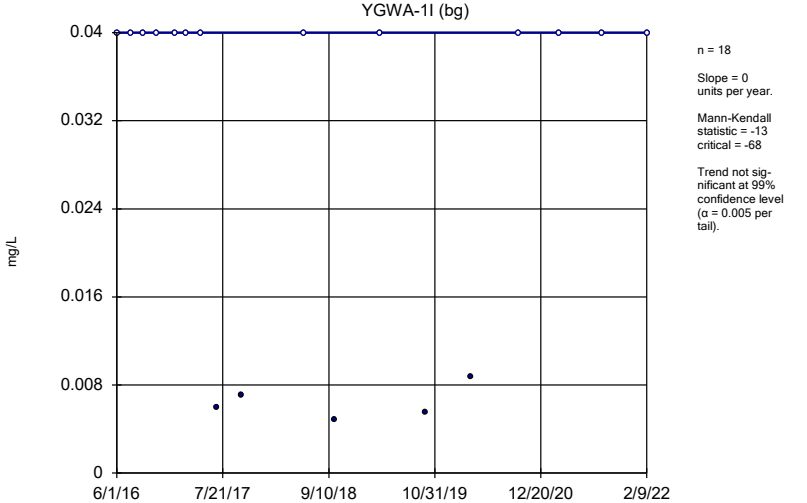
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -13
critical = -68

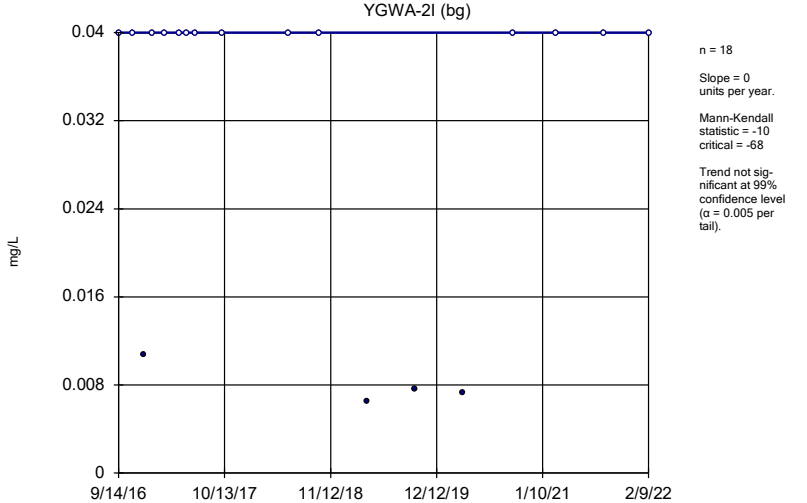
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

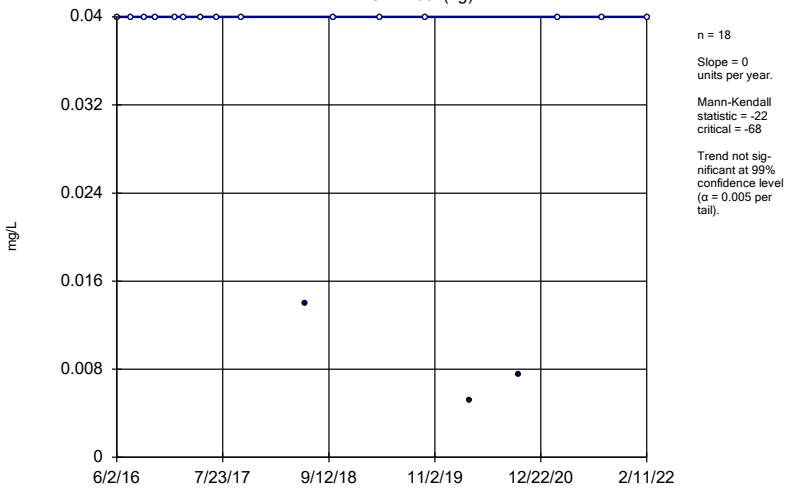
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

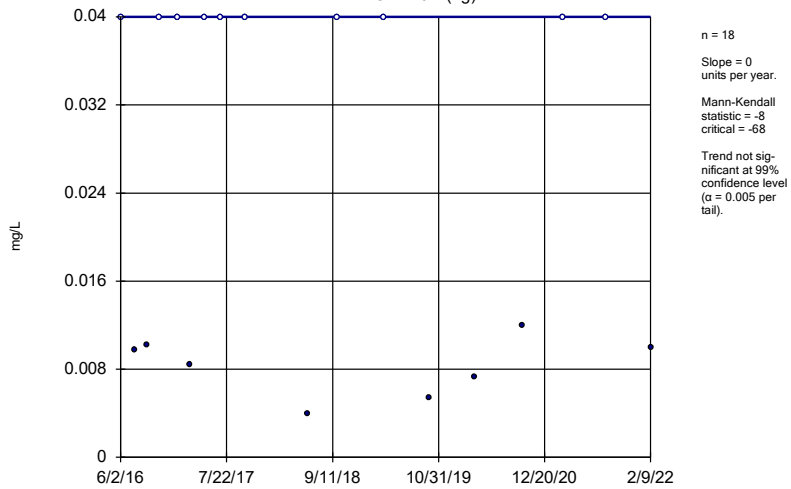
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

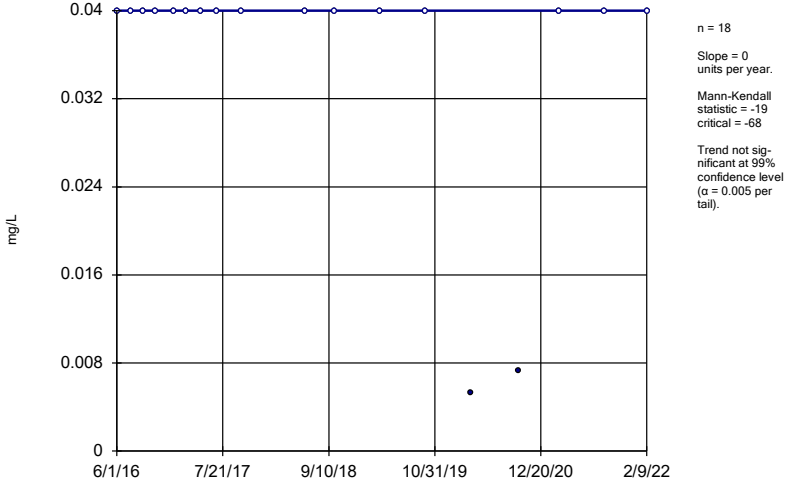
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

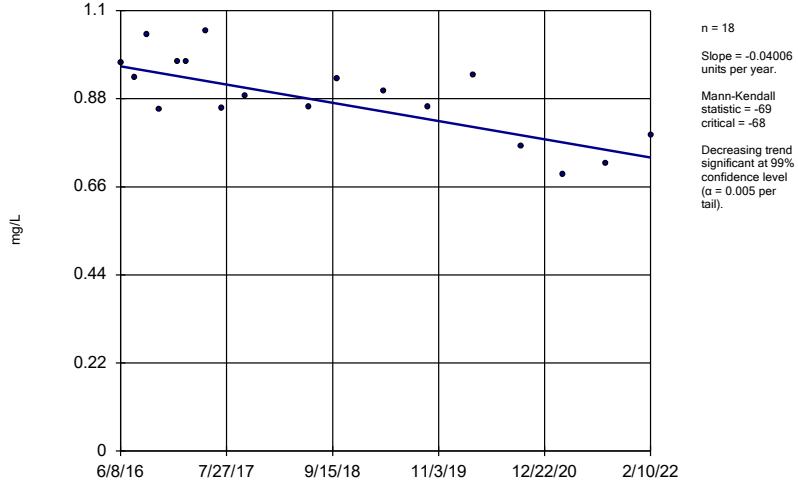
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26I



n = 18

Slope = -0.04006 units per year.

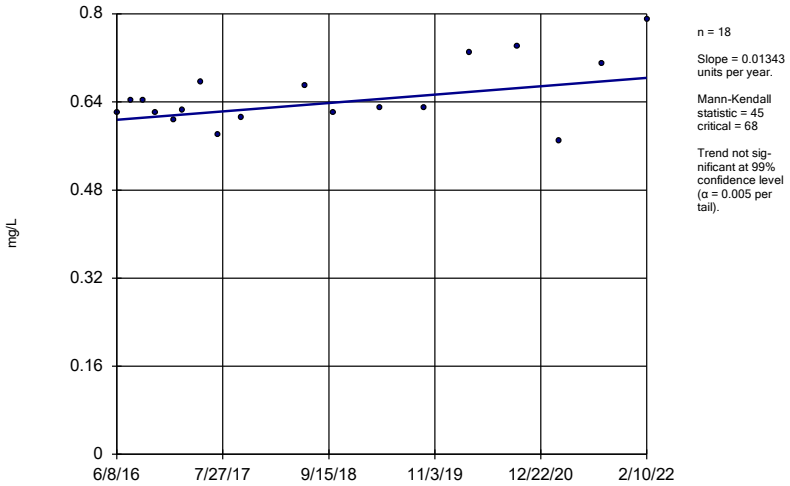
Mann-Kendall statistic = -69
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S



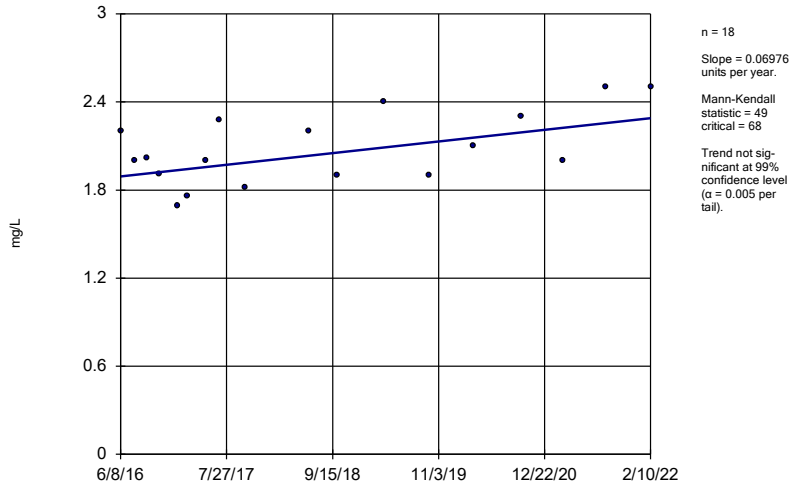
Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27I



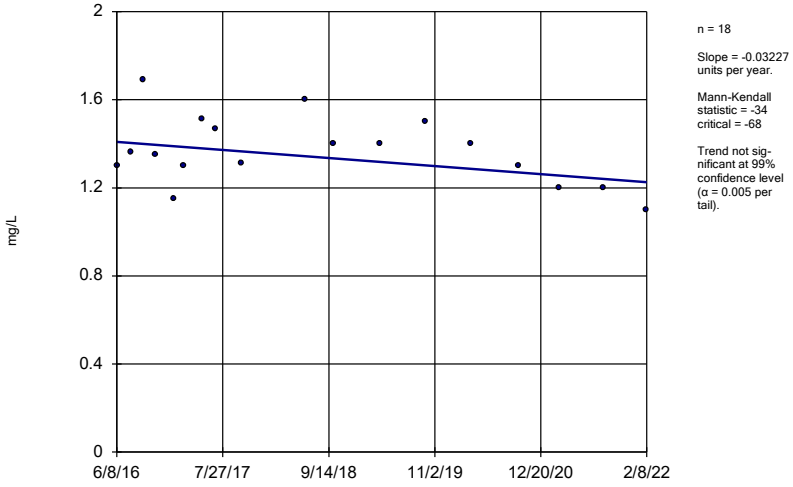
Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27S



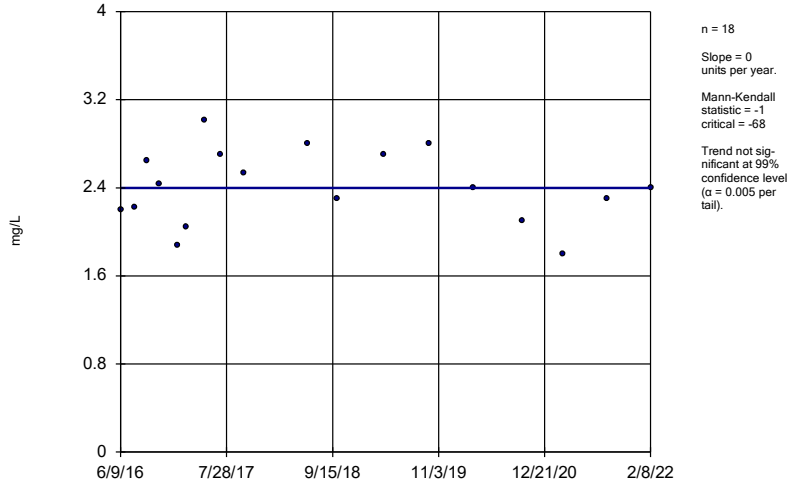
Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28I

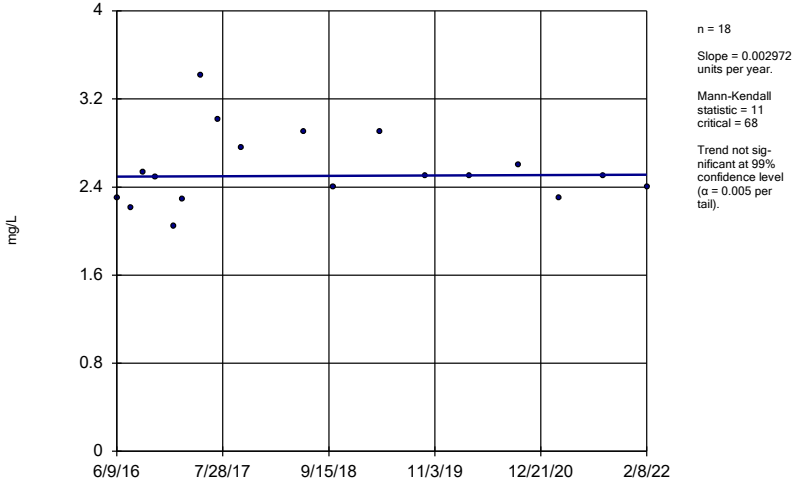


Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28S



n = 18

Slope = 0.002972 units per year.

Mann-Kendall statistic = 11
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

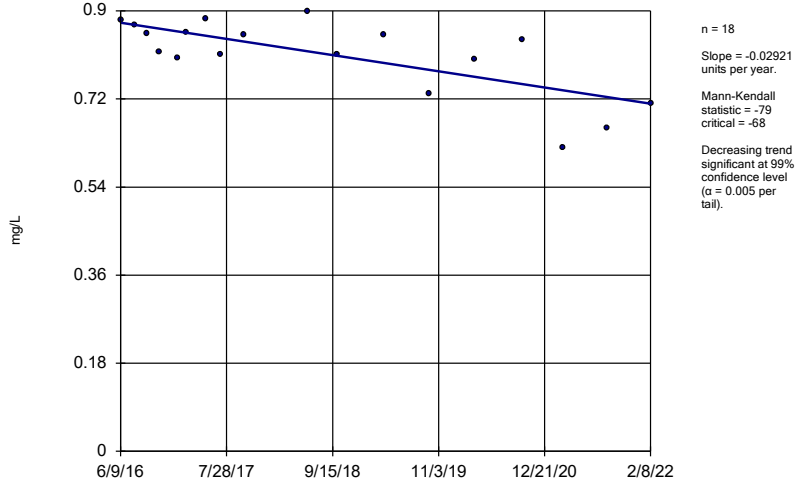
Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-29I



n = 18

Slope = -0.02921 units per year.

Mann-Kendall statistic = -79
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

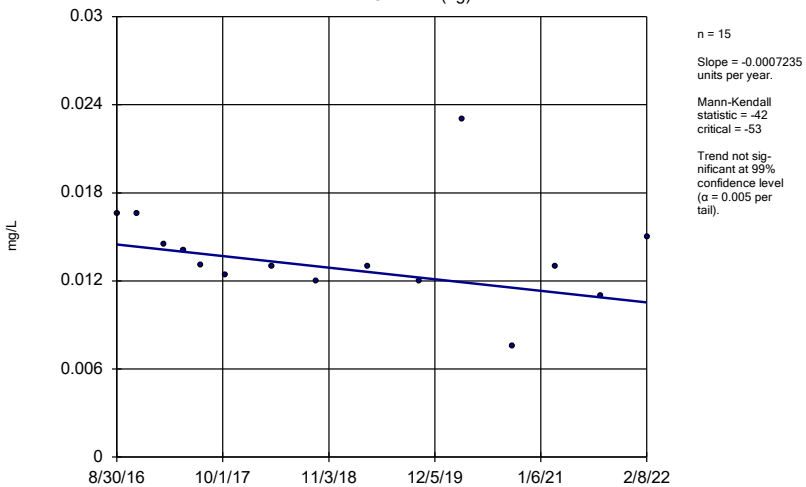
Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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 3/21/2022 12:52 PM View: Appendix III - Trend Tests

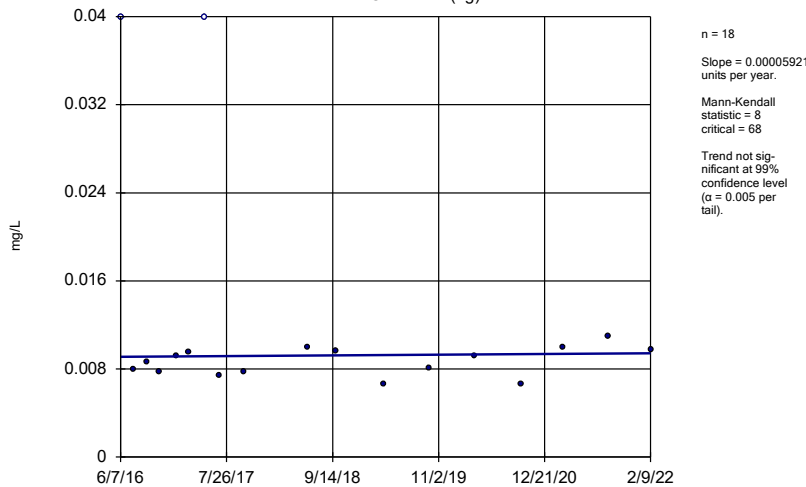
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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).

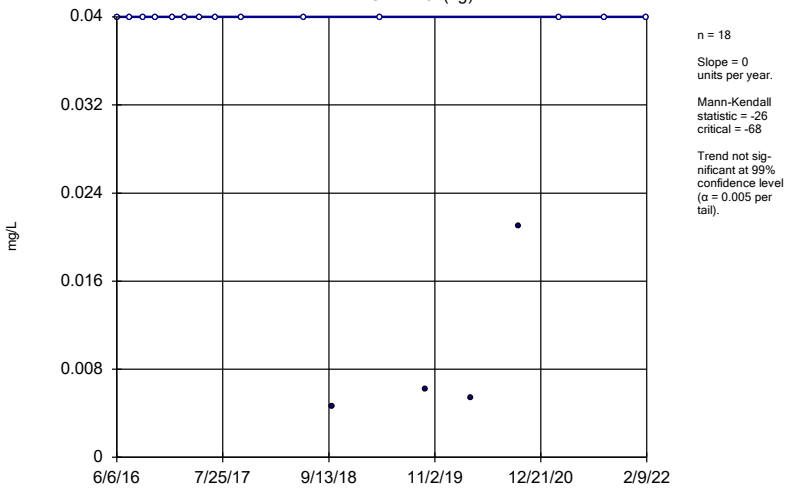
Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

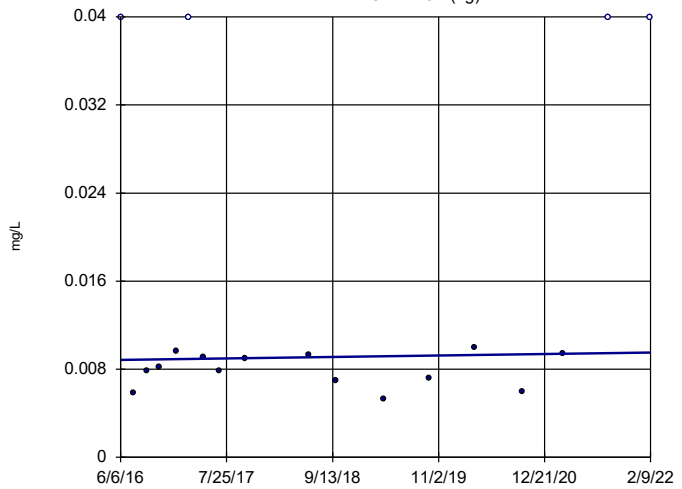
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

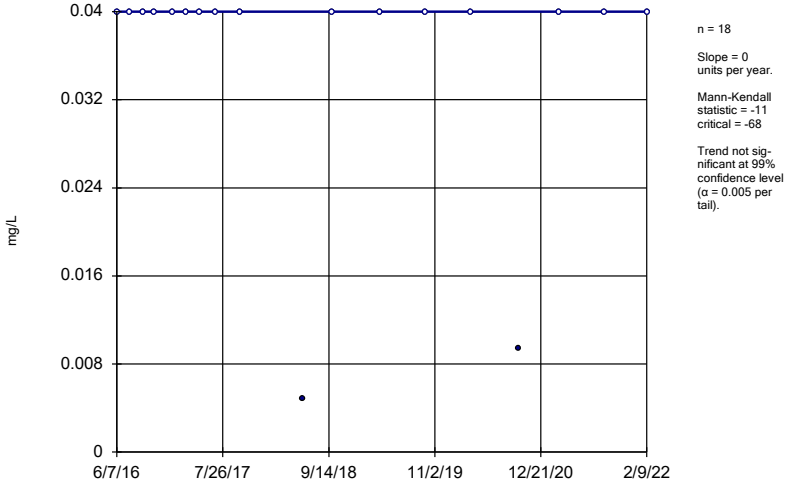
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

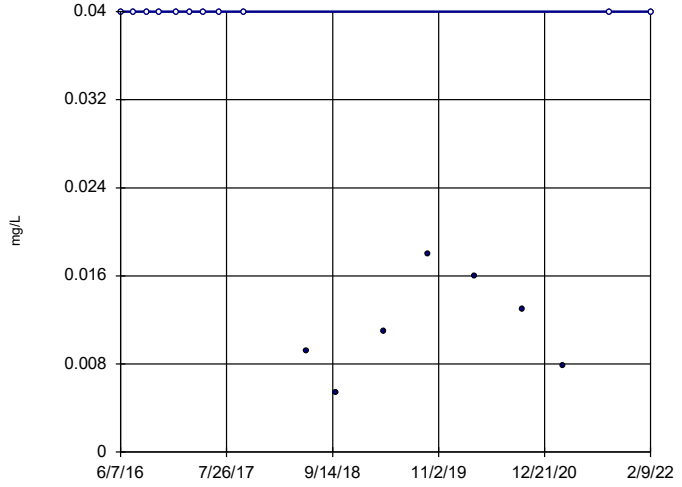
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

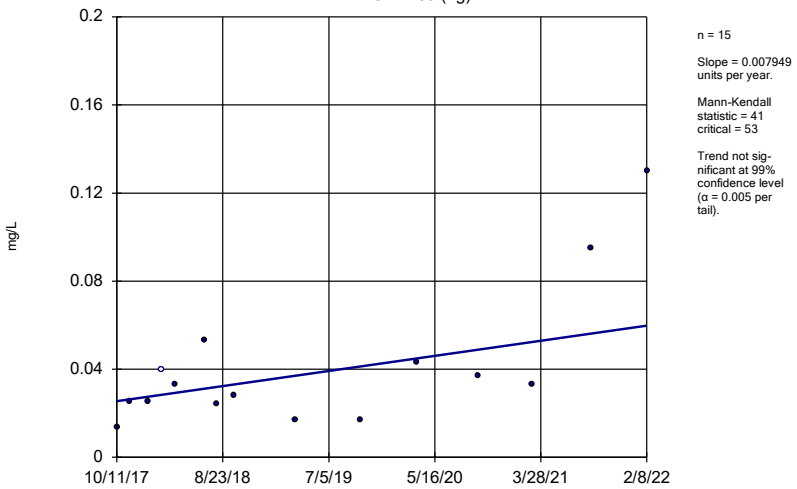
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

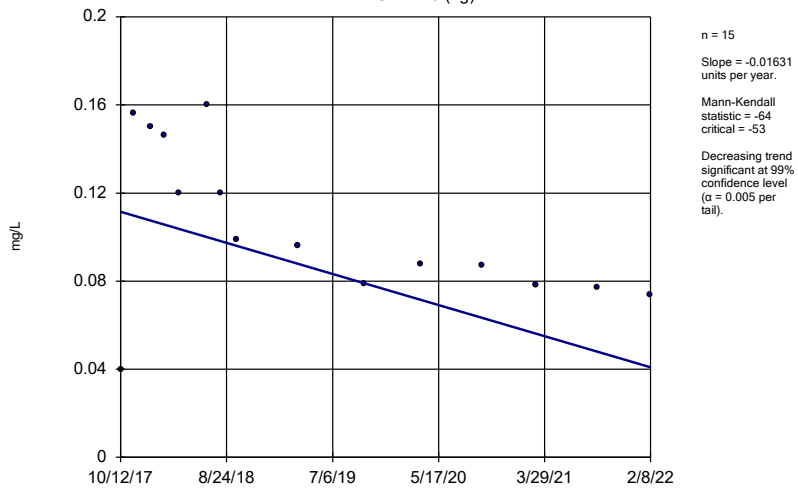
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

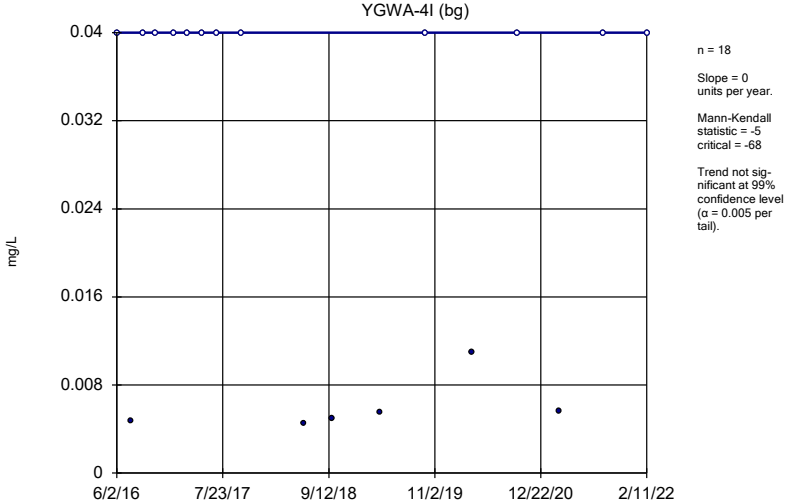
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

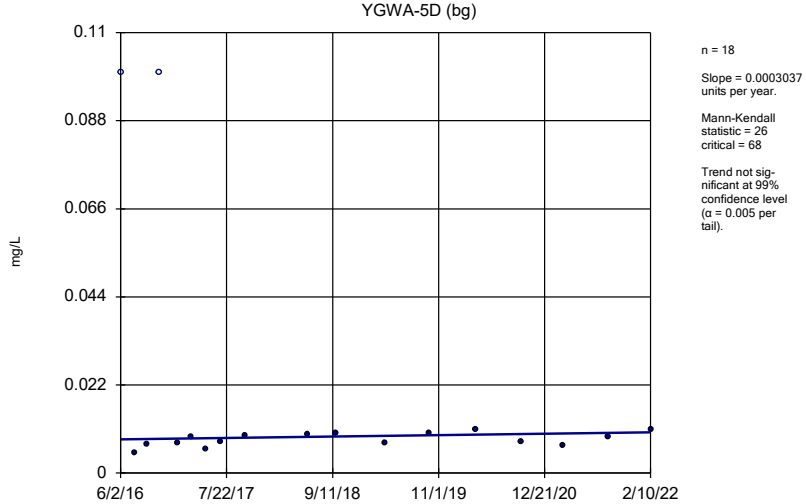
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

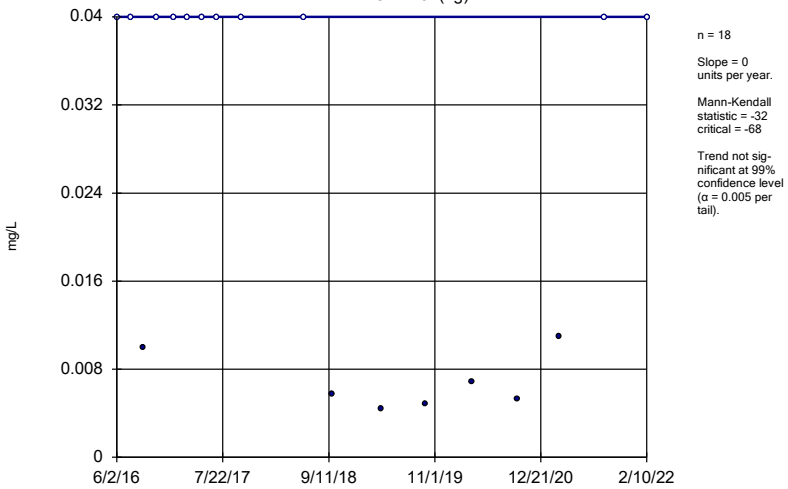
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

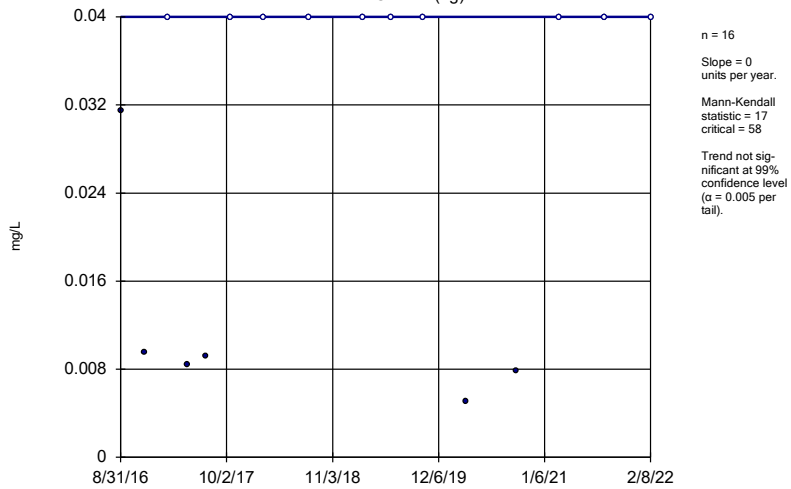
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 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

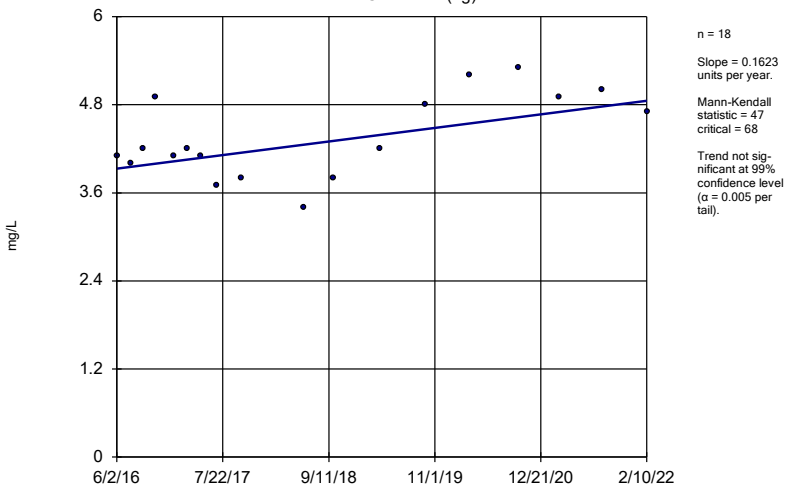
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = 0.1623 units per year.

Mann-Kendall statistic = 47
critical = 68

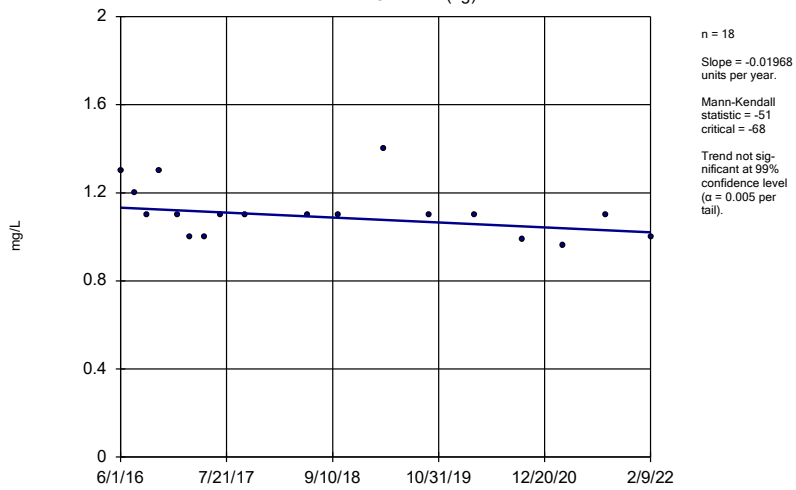
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = -0.01968 units per year.

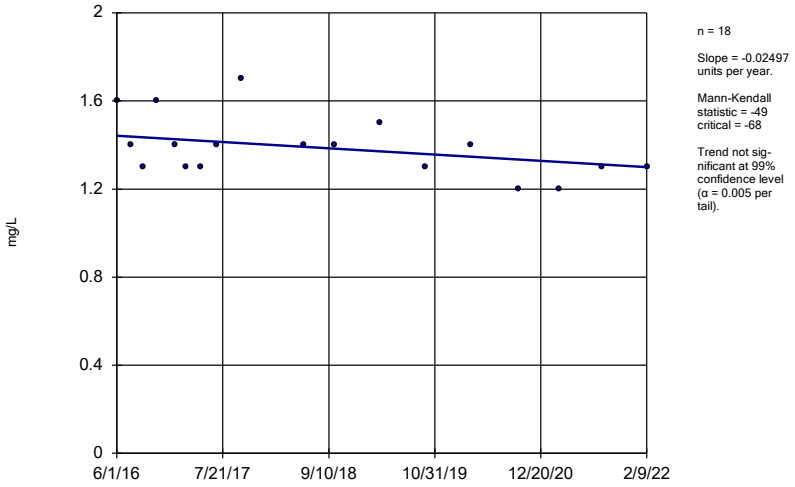
Mann-Kendall statistic = -51
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -0.02497 units per year.

Mann-Kendall statistic = -49
critical = -68

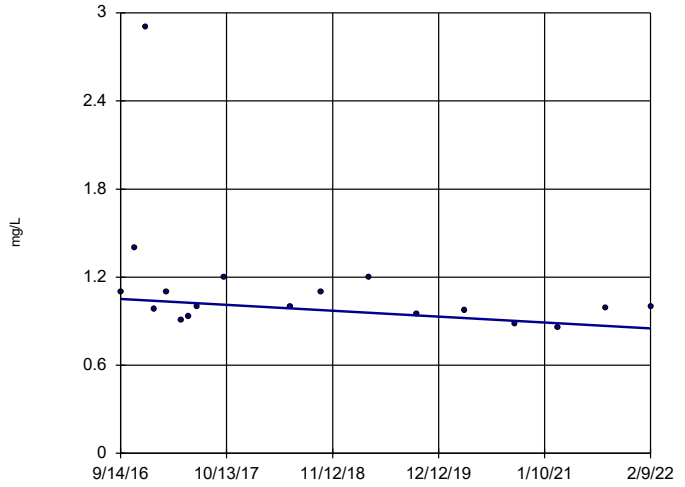
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = -0.03702 units per year.

Mann-Kendall statistic = -46
critical = -68

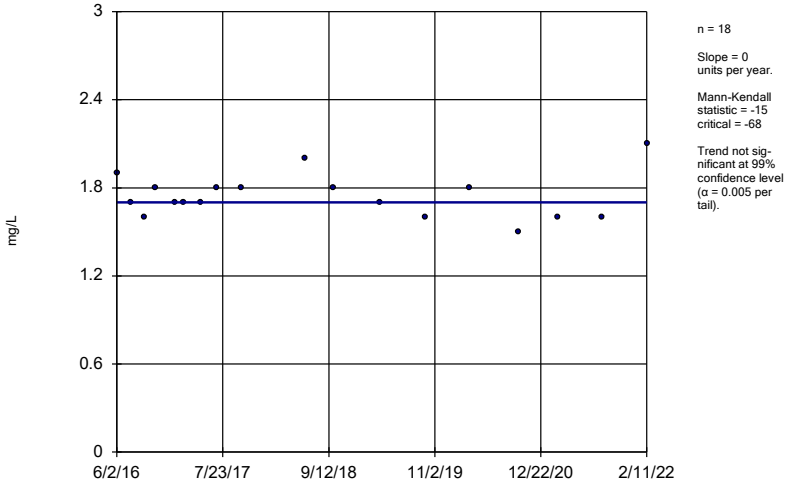
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -68

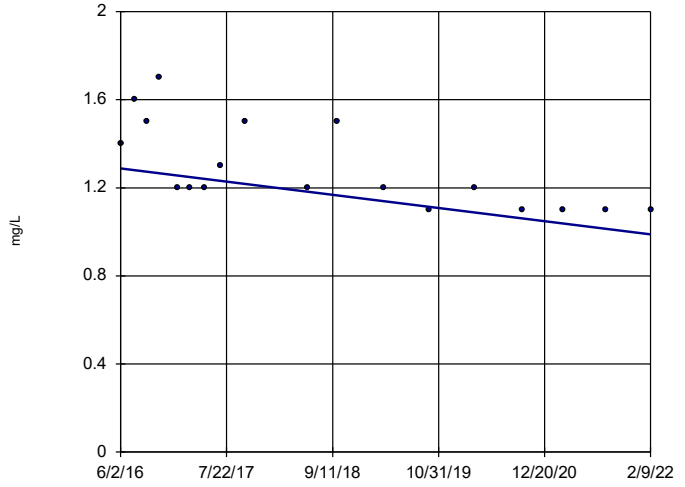
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = -0.05275 units per year.

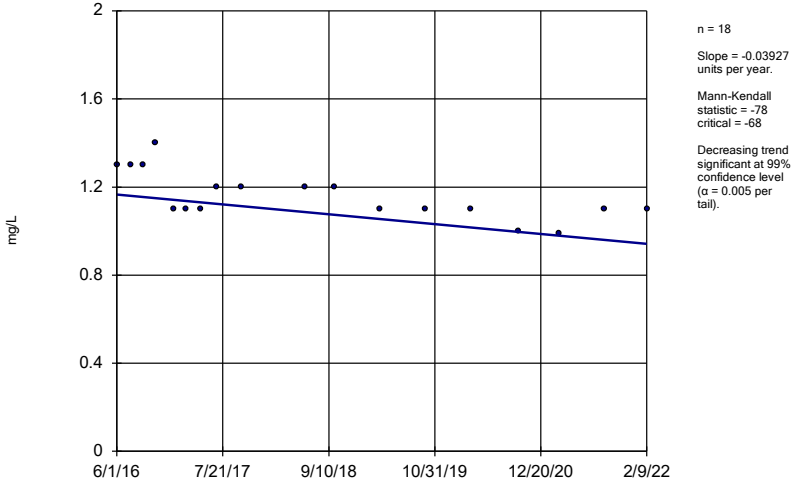
Mann-Kendall statistic = -85
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = -0.03927 units per year.

Mann-Kendall statistic = -78
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

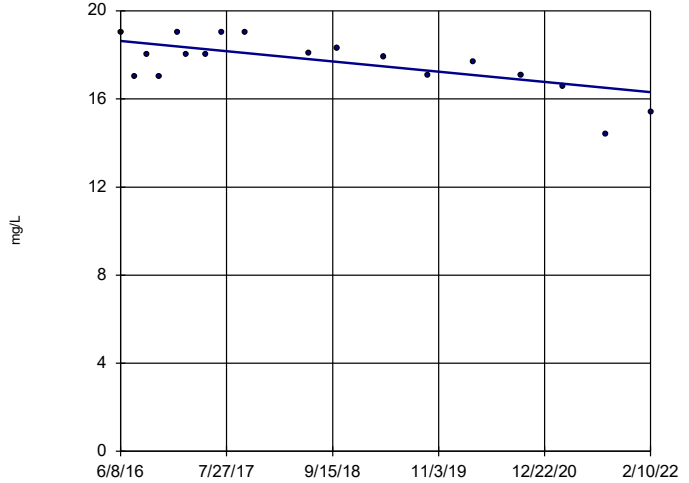
Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26I



n = 18

Slope = -0.4093 units per year.

Mann-Kendall statistic = -64
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

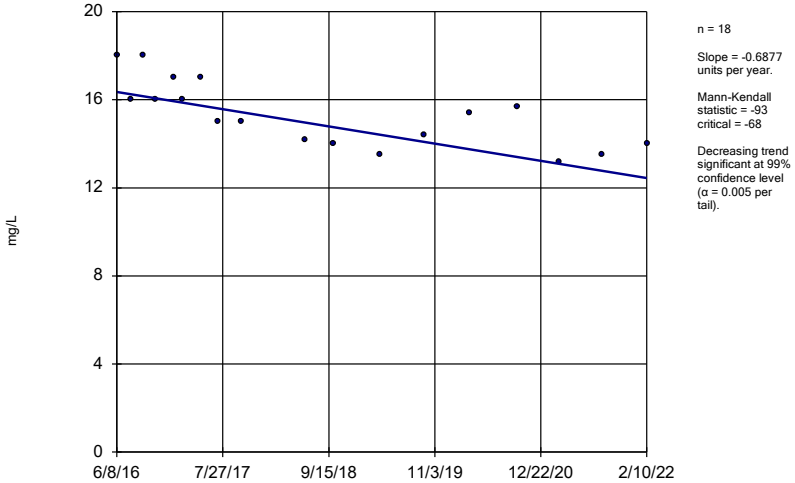
Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26S



n = 18

Slope = -0.6877 units per year.

Mann-Kendall statistic = -93
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

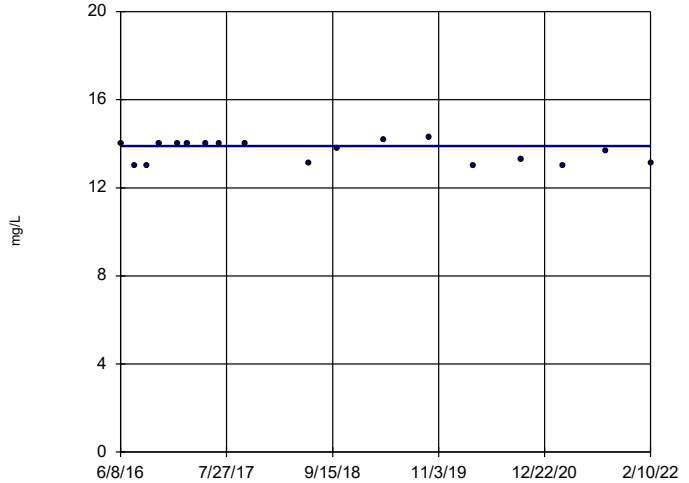
Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27I



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -17
critical = -68

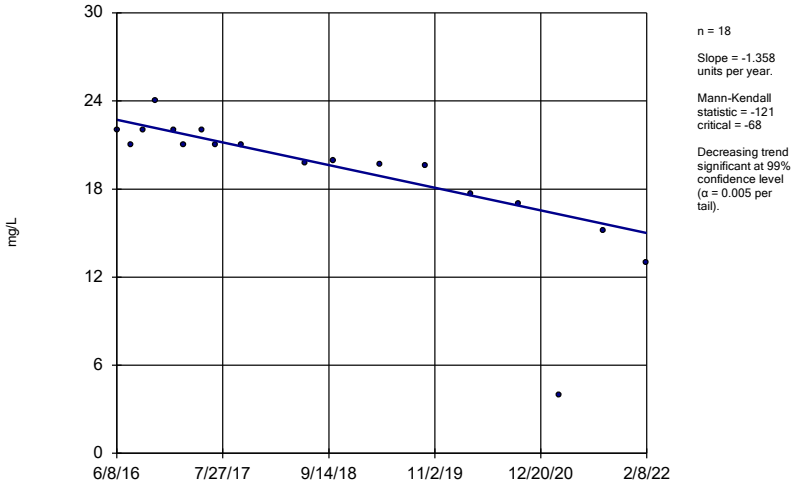
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-27S



n = 18

Slope = -1.358 units per year.

Mann-Kendall statistic = -121
critical = -68

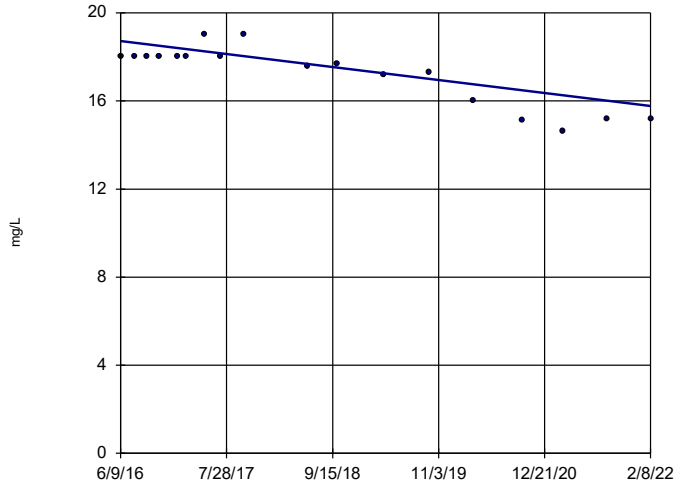
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28I



n = 18

Slope = -0.5198 units per year.

Mann-Kendall statistic = -92
critical = -68

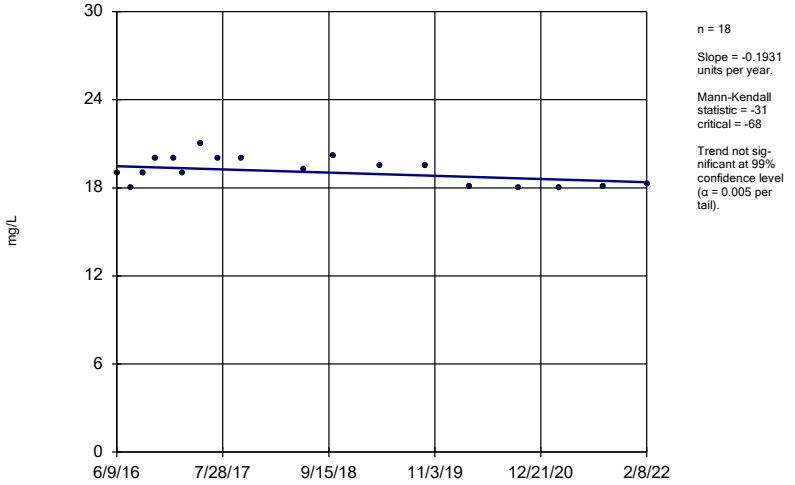
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28S



n = 18

Slope = -0.1931 units per year.

Mann-Kendall statistic = -31
critical = -68

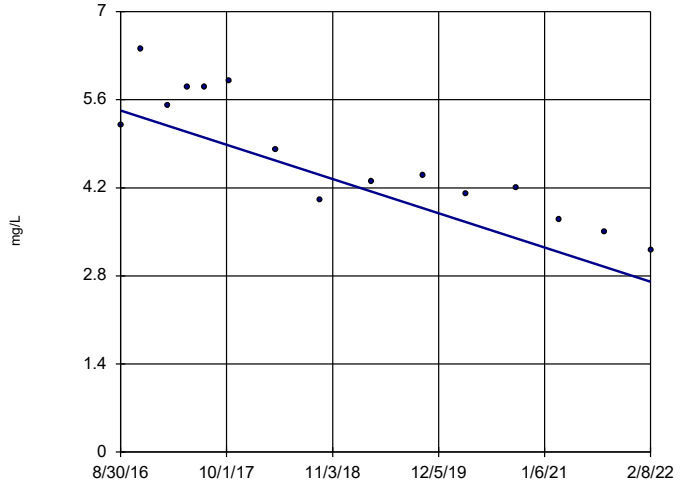
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -0.4996 units per year.

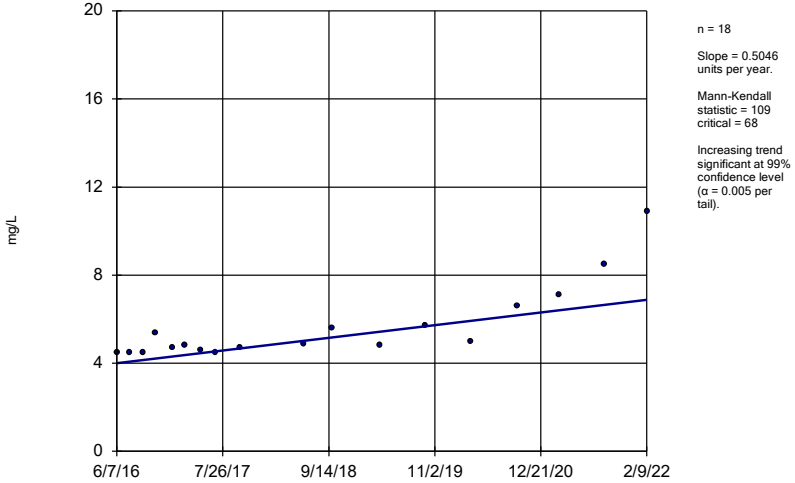
Mann-Kendall statistic = -72
critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.5046 units per year.

Mann-Kendall statistic = 109
critical = 68

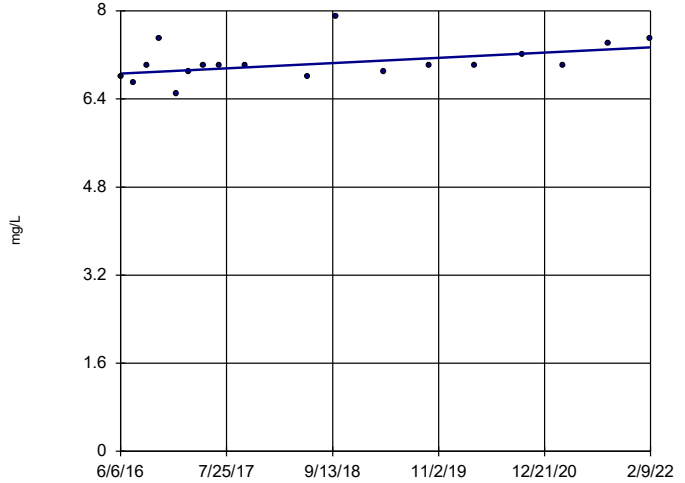
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = 0.0841 units per year.

Mann-Kendall statistic = 61
critical = 68

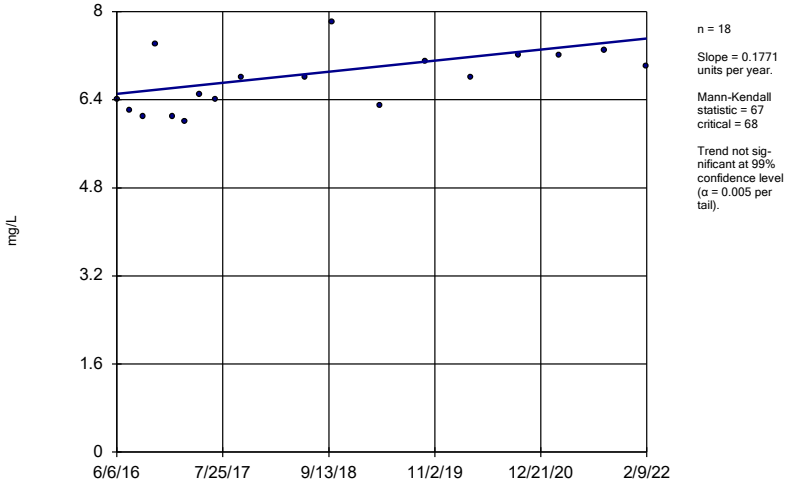
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = 0.1771 units per year.

Mann-Kendall statistic = 67
critical = 68

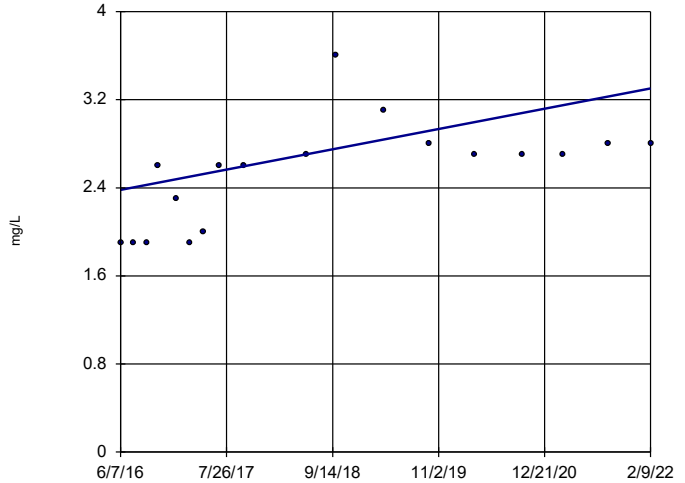
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0.1624 units per year.

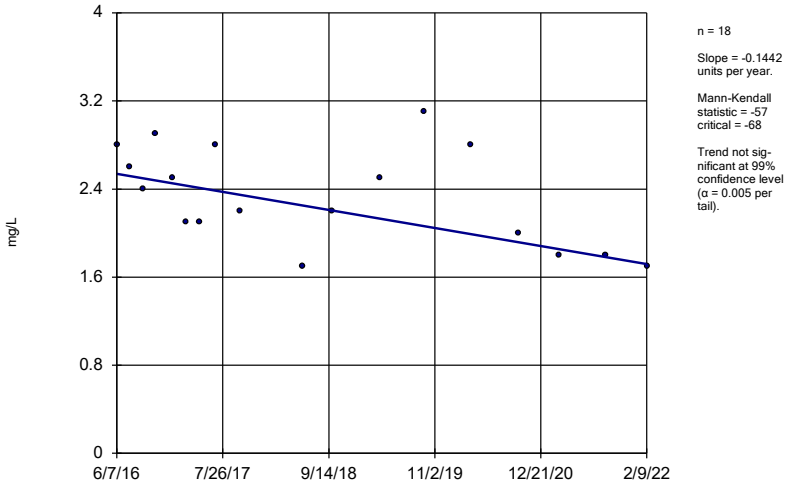
Mann-Kendall statistic = 93
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = -0.1442 units per year.

Mann-Kendall statistic = -57 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

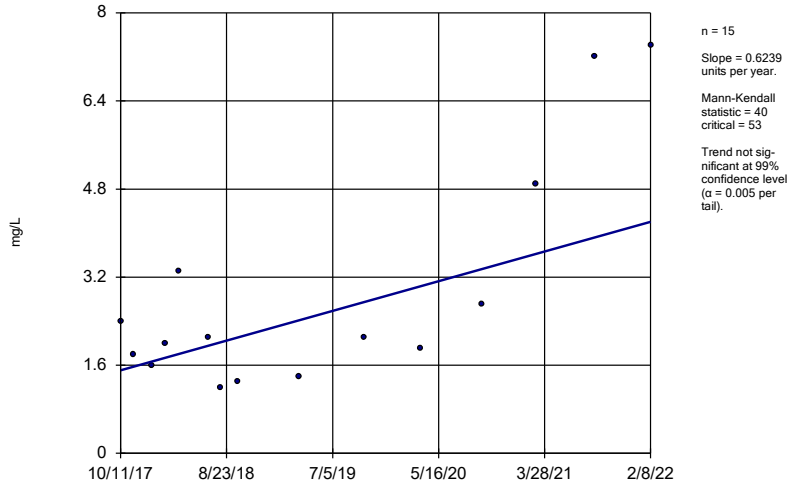
Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 0.6239 units per year.

Mann-Kendall statistic = 40 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

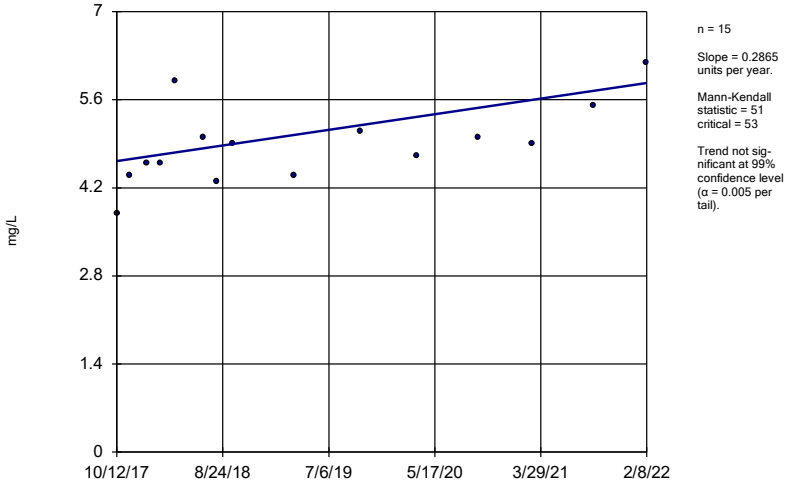
Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = 0.2865 units per year.

Mann-Kendall statistic = 51 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

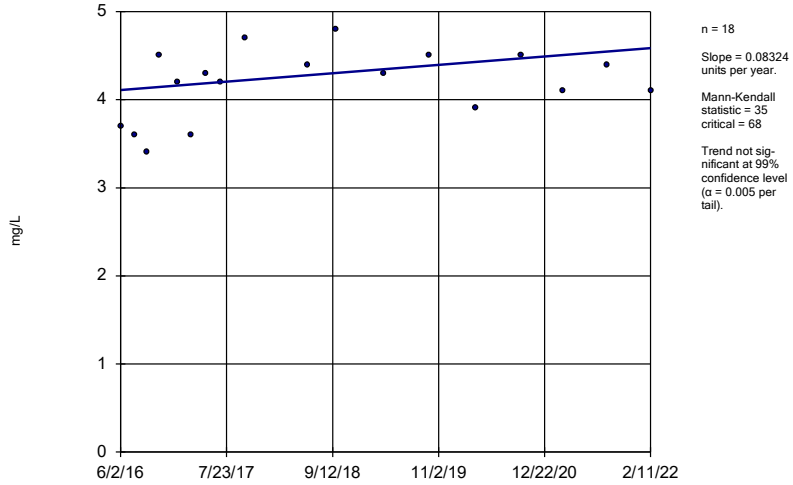
Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.08324 units per year.

Mann-Kendall statistic = 35 critical = 68

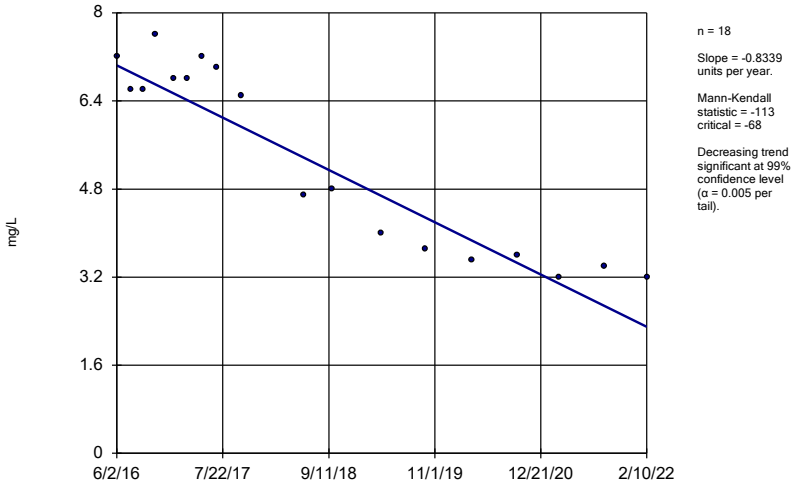
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -0.8339 units per year.

Mann-Kendall statistic = -113 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

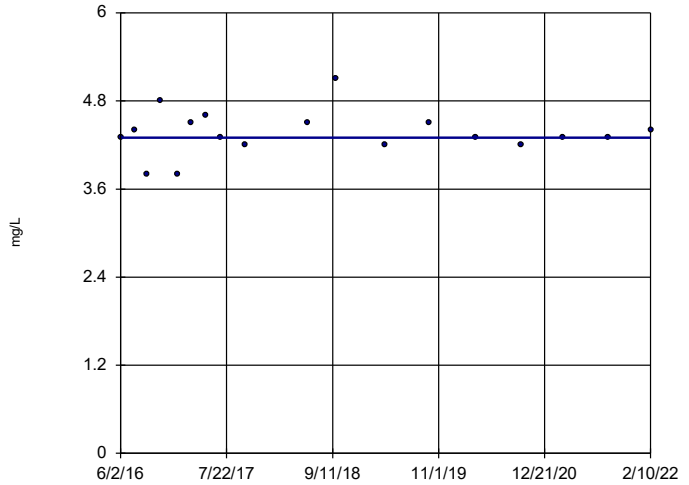
Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

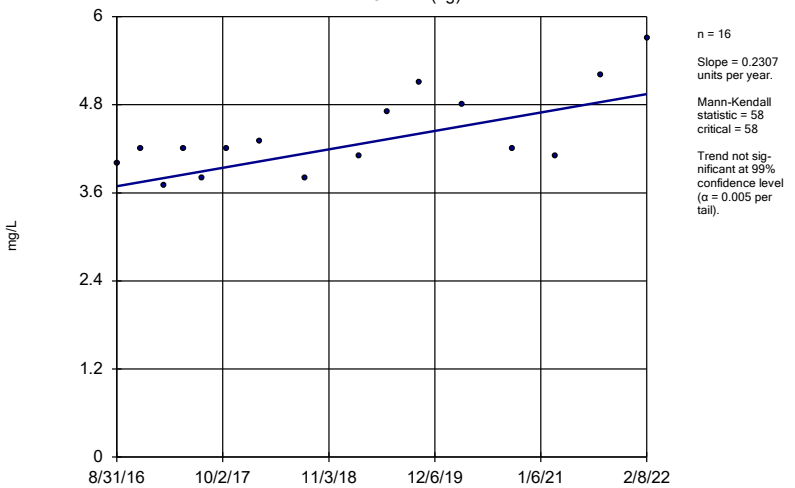
Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 0.2307 units per year.

Mann-Kendall statistic = 58 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:31 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 ASH POND 2 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 - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.00059	0.006	No	17	0.002712	0.0008121	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	17	0.002841	0.0004487	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	17	0.002843	0.0006476	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	17	0.002841	0.0006548	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	17	0.0029	0.0004123	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	21	0.004895	0.0004801	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	21	0.004914	0.0003928	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	21	0.003307	0.002126	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	21	0.004852	0.0006765	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	21	0.004862	0.0006328	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	No	21	0.00332	0.002123	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29I	0.005	0.0033	0.01	No	21	0.004919	0.000371	95.24	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06607	0.0627	2	No	21	0.06439	0.003054	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02872	0.02632	2	No	21	0.02752	0.002175	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.08	0.063	2	No	21	0.07016	0.007752	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1033	0.09001	2	No	21	0.09663	0.01201	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08942	0.08354	2	No	21	0.08648	0.005329	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2217	0.1958	2	No	21	0.2043	0.03757	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0741	0.057	2	No	21	0.07251	0.03261	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.0001	0.004	No	19	0.0001821	0.0001199	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00013	0.004	No	19	0.0002235	0.0001312	15.79	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	19	0.0004566	0.0001301	89.47	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.00043	0.0001	0.005	No	19	0.0002479	0.0001701	10.53	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	19	0.0004989	0.000004588	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002257	0.0001389	0.005	No	19	0.0002526	0.0001256	15.79	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	19	0.003392	0.002155	57.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002127	0.001045	0.1	No	19	0.002578	0.001725	21.05	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	19	0.005368	0.001606	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	19	0.004655	0.003012	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	19	0.004285	0.001697	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	19	0.004294	0.001675	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	19	0.004763	0.001032	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002719	0.001886	0.035	No	21	0.002343	0.0008244	4.762	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.0147	0.003357	0.035	No	21	0.01725	0.02581	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	21	0.002448	0.0006416	4.762	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	21	0.004782	0.0009994	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00091	0.035	No	21	0.001378	0.001211	9.524	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	No	21	0.003955	0.001918	76.19	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.066	0.4848	6.92	No	20	0.7754	0.5117	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8492	0.5341	6.92	No	21	0.6917	0.2857	4.762	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.883	2.537	6.92	No	21	3.21	1.221	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.041	0.6603	6.92	No	21	0.8504	0.3446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	21	0.6556	0.3485	4.762	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9441	0.5386	6.92	No	21	0.7413	0.3675	4.762	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.094	0.6509	6.92	No	21	0.8723	0.4013	4.762	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No	22	0.08409	0.02065	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	22	0.1302	0.09494	72.73	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	No	22	0.09055	0.02574	54.55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.1919	0.09792	4	No	22	0.1575	0.1014	18.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.12	0.078	4	No	22	0.1232	0.07937	22.73	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2565	0.1516	4	No	22	0.204	0.09764	9.091	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.08932	0.05868	4	No	22	0.08573	0.03079	31.82	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	17	0.0008888	0.0003138	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.00008	0.015	No	17	0.0007265	0.0004369	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00037	0.015	No	17	0.0007881	0.0003597	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.00007	0.015	No	17	0.0007244	0.0004402	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	No	17	0.0008424	0.0003513	82.35	None	No	0.01	NP (NDs)

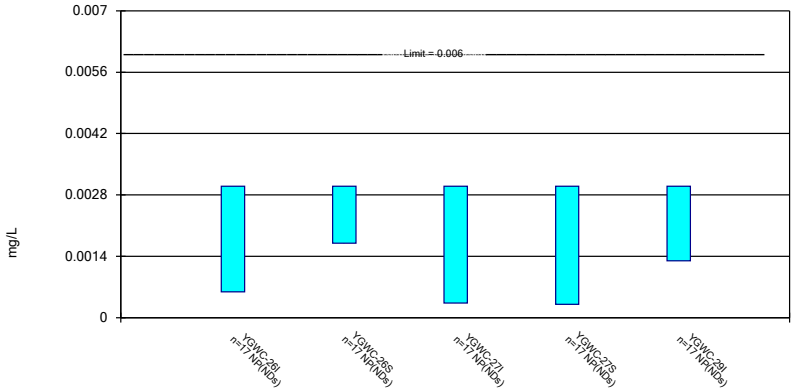
Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	YGWC-26I	0.007307	0.006607	0.04	No	21	0.006957	0.0006345	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.0101	0.007874	0.04	No	21	0.008986	0.002015	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	21	0.02724	0.008707	90.48	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.0071	0.00668	0.04	No	21	0.00689	0.0003807	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	21	0.02882	0.00539	95.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	No	21	0.00711	0.005308	4.762	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	15	0.0001801	0.00005243	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	15	0.000181	0.00005024	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	15	0.0001799	0.00005298	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.000049	0.002	No	15	0.0001793	0.00005456	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	15	0.0001899	0.00003925	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	15	0.0001901	0.00003821	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0002	0.000047	0.002	No	15	0.0001791	0.00005526	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	21	0.005662	0.004282	47.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	21	0.004995	0.004443	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	21	0.007795	0.004042	76.19	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	21	0.009563	0.002001	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0034	0.0018	0.05	No	19	0.002574	0.001081	10.53	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	19	0.004174	0.001658	78.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	19	0.0048	0.0008718	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	19	0.004789	0.0009177	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	15	0.0008741	0.0003322	86.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	15	0.000642	0.0004539	60	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

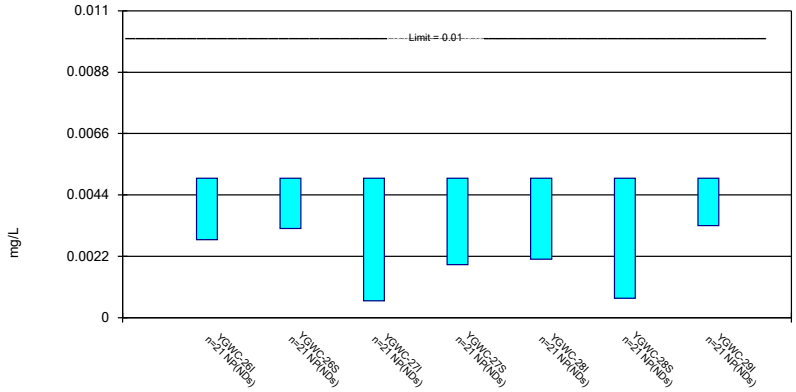


Constituent: Antimony Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

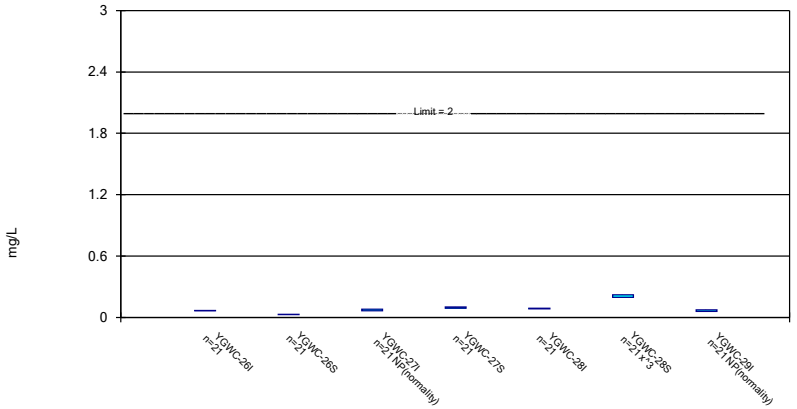


Constituent: Arsenic Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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. Normality Test: Shapiro Wilk, alpha based on n.

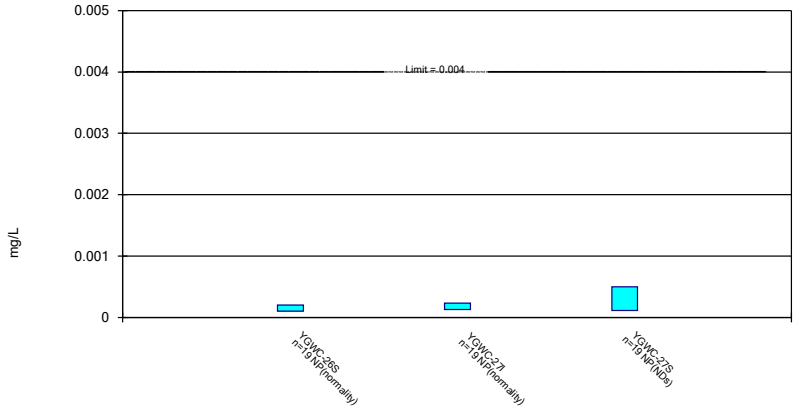


Constituent: Barium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

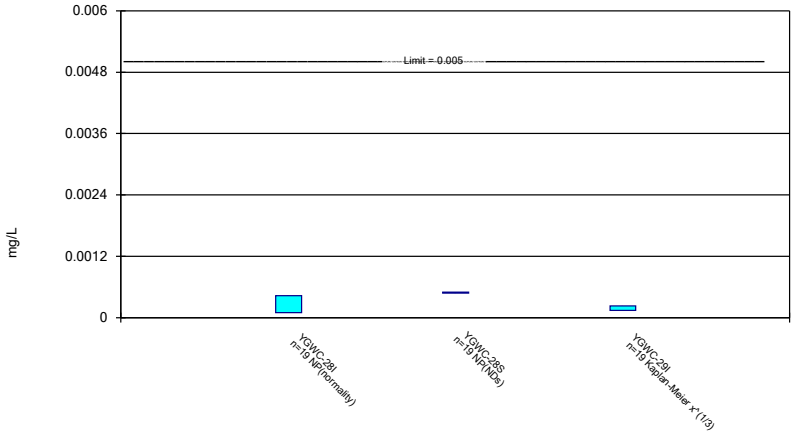
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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.



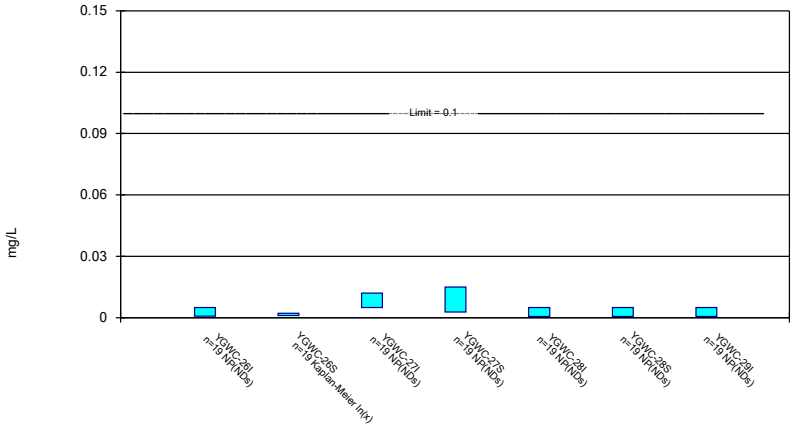
Constituent: Cadmium Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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. Normality Test: Shapiro Wilk, alpha based on n.



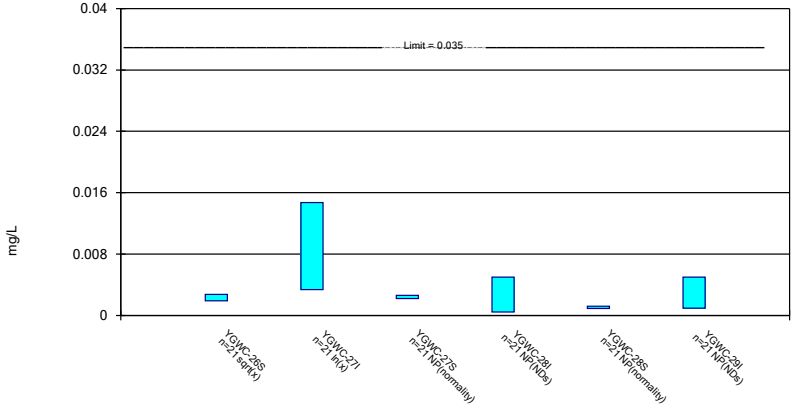
Constituent: Chromium Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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. Normality Test: Shapiro Wilk, alpha based on n.



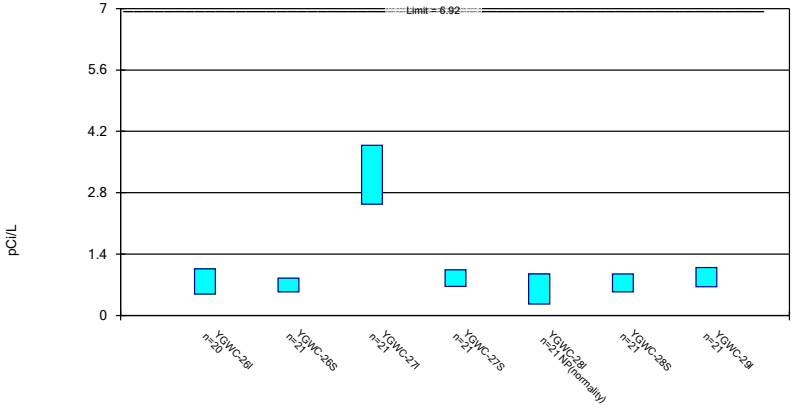
Constituent: Cobalt Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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. Normality Test: Shapiro Wilk, alpha based on n.

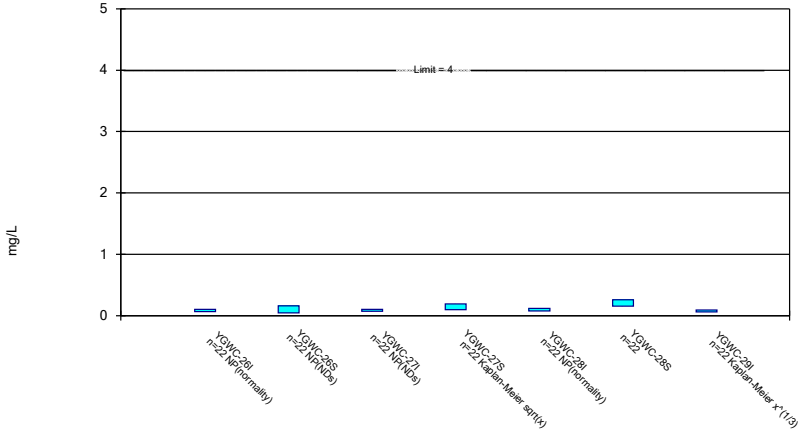


Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

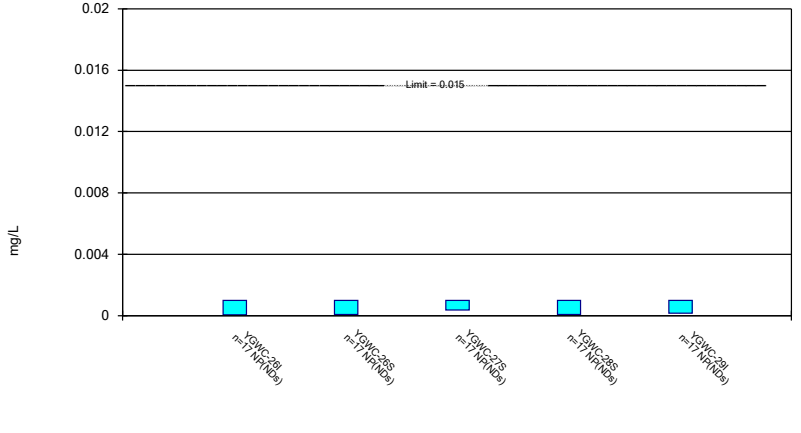


Constituent: Fluoride Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

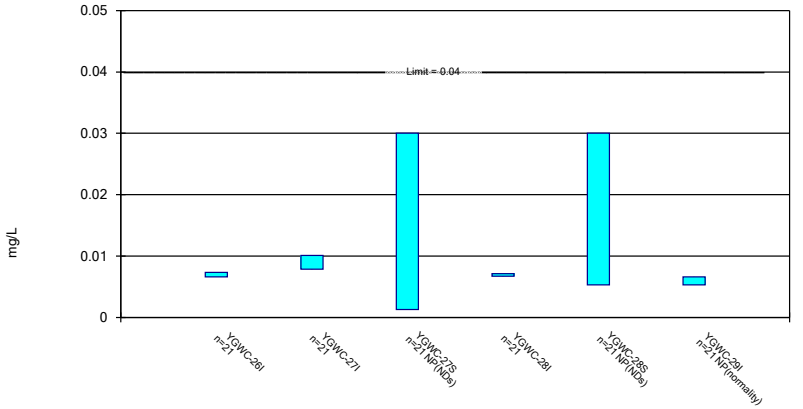


Constituent: Lead Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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.

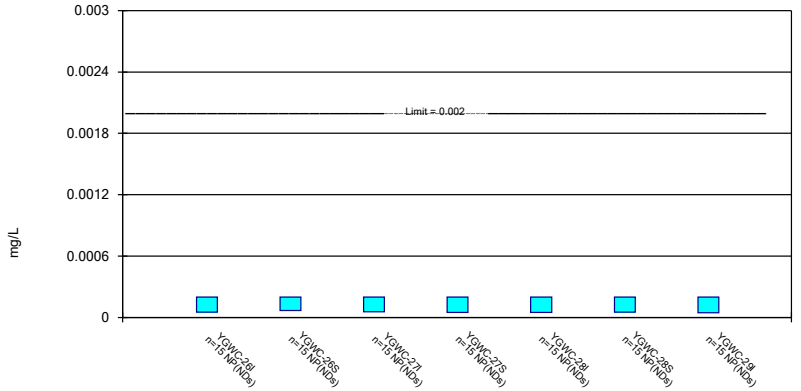


Constituent: Lithium Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

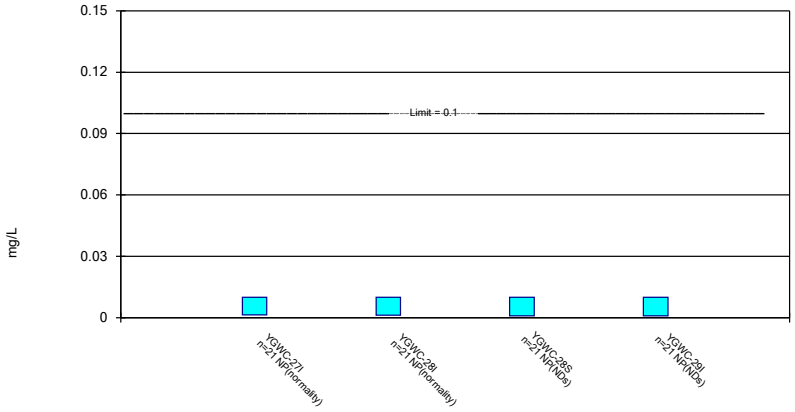


Constituent: Mercury Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



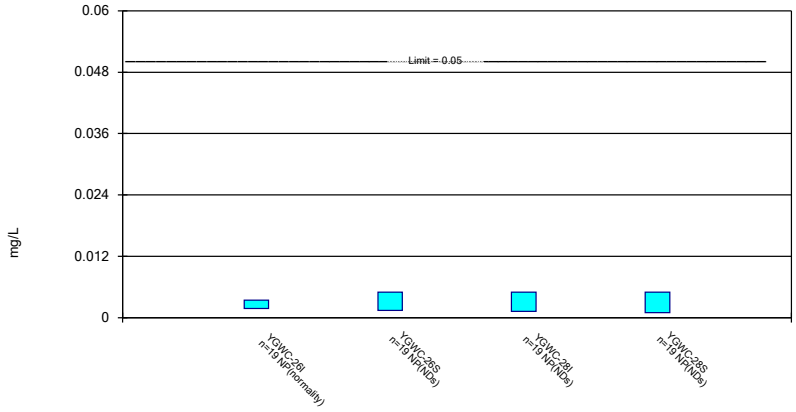
Constituent: Molybdenum Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



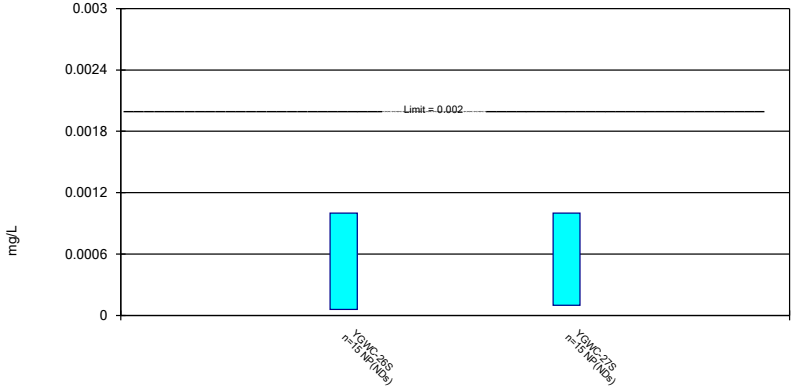
Constituent: Selenium Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003	
6/9/2016					<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003	
8/2/2016					<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003	
9/21/2016					<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003	<0.003
1/18/2017	<0.003	<0.003	<0.003		
1/19/2017				<0.003	<0.003
2/21/2017	<0.003	<0.003			
2/22/2017				<0.003	<0.003
2/23/2017			<0.003		
5/3/2017		<0.003			
5/8/2017	<0.003		<0.003	<0.003	<0.003
6/30/2017			<0.003	<0.003	
7/5/2017					<0.003
7/10/2017	<0.003	<0.003			
3/29/2018			<0.003	<0.003	<0.003
3/30/2018	<0.003	<0.003			
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)	<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003	
2/12/2021					<0.003
3/2/2021		<0.003			
3/3/2021	<0.003		<0.003	<0.003	<0.003
8/19/2021		<0.003			
8/20/2021	<0.003		<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003		
Mean	0.002712	0.002841	0.002843	0.002841	0.0029
Std. Dev.	0.0008121	0.0004487	0.0006476	0.0006548	0.0004123
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00059	0.0017	0.00033	0.0003	0.0013

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
Mean	0.004895	0.004914	0.003307	0.004852	0.004862	0.00332	0.004919
Std. Dev.	0.0004801	0.0003928	0.002126	0.0006765	0.0006328	0.002123	0.000371
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0028	0.0032	0.0006	0.0019	0.0021	0.0007	0.0033

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				
Mean	0.06439	0.02752	0.07016	0.09663	0.08648	0.2043	0.07251
Std. Dev.	0.003054	0.002175	0.007752	0.01201	0.005329	0.03757	0.03261
Upper Lim.	0.06607	0.02872	0.08	0.1033	0.08942	0.2217	0.0741
Lower Lim.	0.0627	0.02632	0.063	0.09001	0.08354	0.1958	0.057

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S
6/8/2016	<0.0005	<0.0005	<0.0005
8/1/2016	0.0002 (J)	<0.0005	<0.0005
9/20/2016	0.0001 (J)	9E-05 (J)	<0.0005
11/7/2016	0.0001 (J)	0.0001 (J)	<0.0005
1/18/2017	0.0002 (J)	0.0002 (J)	
1/19/2017			<0.0005
2/21/2017	0.0002 (J)		
2/22/2017			<0.0005
2/23/2017		0.0002 (J)	
5/3/2017	0.0002 (J)		
5/8/2017		0.0002 (J)	<0.0005
6/30/2017		0.0002 (J)	<0.0005
7/10/2017	0.0002 (J)		
3/29/2018		<0.0005	<0.0005
3/30/2018	<0.0005		
2/27/2019	0.00018 (J)	0.00022 (J)	<0.0005
4/1/2019		0.00022 (J)	<0.0005
4/2/2019	0.00015 (J)		
9/25/2019	0.00011 (J)		
9/26/2019		0.0002 (J)	<0.0005
2/13/2020	0.00015 (J)	0.00021 (J)	<0.0005
3/19/2020	0.00012 (J)		
3/20/2020		0.00023 (J)	<0.0005
9/24/2020	8.5E-05 (J)	0.00019 (J)	<0.0005
2/10/2021	0.00013 (J)	0.00014 (J)	6.6E-05 (J)
3/2/2021	0.00016 (J)		
3/3/2021		0.00013 (J)	<0.0005
8/19/2021	8.2E-05 (J)		
8/20/2021		8.6E-05 (J)	0.00011 (J)
2/8/2022			<0.0005
2/10/2022	9.3E-05 (J)	0.00013 (J)	
Mean	0.0001821	0.0002235	0.0004566
Std. Dev.	0.0001199	0.0001312	0.0001301
Upper Lim.	0.0002	0.00023	0.0005
Lower Lim.	0.0001	0.00013	0.00011

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29I
6/9/2016	0.00055 (J)	<0.0005	<0.0005
8/2/2016	0.0001 (J)	<0.0005	0.0001 (J)
9/21/2016	0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016		<0.0005	0.0002 (J)
11/8/2016	9E-05 (J)		
1/18/2017	9E-05 (J)	<0.0005	
1/19/2017			0.0001 (J)
2/21/2017		<0.0005	
2/22/2017	0.0001 (J)		0.0001 (J)
5/5/2017	9E-05 (J)	<0.0005	
5/8/2017			0.0002 (J)
7/5/2017	0.0002 (J)		0.0002 (J)
7/7/2017		<0.0005	
3/29/2018			<0.0005
3/30/2018	<0.0005	<0.0005	
2/27/2019	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019	0.00043 (J)		0.00022 (J)
4/2/2019		<0.0005	
9/25/2019			0.00024 (J)
9/26/2019	<0.0005	<0.0005	
2/13/2020	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020	0.00016 (J)	<0.0005	
3/20/2020			0.00022 (J)
9/24/2020	0.00027 (J)	<0.0005	0.00033 (J)
2/11/2021	0.00052 (J)		
2/12/2021		0.00048 (J)	<0.0005
3/3/2021	0.00014 (J)	<0.0005	0.00029 (J)
8/20/2021	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022	0.00033 (J)	<0.0005	0.00019 (J)
Mean	0.0002479	0.0004989	0.0002526
Std. Dev.	0.0001701	4.588E-06	0.0001256
Upper Lim.	0.00043	0.0005	0.0002257
Lower Lim.	0.0001	0.00048	0.0001389

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
Mean	0.003392	0.002578	0.005368	0.004655	0.004285	0.004294	0.004763
Std. Dev.	0.002155	0.001725	0.001606	0.003012	0.001697	0.001675	0.001032
Upper Lim.	0.005	0.002127	0.012	0.015	0.005	0.005	0.005
Lower Lim.	0.00065	0.001045	0.005	0.0027	0.0005	0.0006	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016				0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016				<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016				<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016				<0.005		
1/18/2017	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017			0.0024 (J)			<0.005
2/21/2017	0.0022 (J)				0.0011 (J)	
2/22/2017			0.0023 (J)	<0.005		<0.005
2/23/2017		0.002 (J)				
5/3/2017	0.002 (J)					
5/5/2017				<0.005	0.0012 (J)	
5/8/2017		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017		0.0044 (J)	0.0022 (J)			
7/5/2017				<0.005		0.0003 (J)
7/7/2017					0.0012 (J)	
7/10/2017	0.002 (J)					
3/29/2018		0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005			<0.005	<0.005	
6/11/2018						<0.005
6/12/2018			0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	0.0017 (J)	0.092				
10/2/2018	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018				<0.005	0.0013 (J)	
2/27/2019	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019		0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	0.0022 (J)				0.0011 (J)	
9/25/2019	0.0033 (J)					<0.005
9/26/2019		0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020	0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020		0.014	0.0022 (J)			<0.005
9/24/2020	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021				<0.005		
2/12/2021					<0.005	0.00094 (J)
3/2/2021	0.0021 (J)					
3/3/2021		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021	0.0017 (J)					
8/20/2021		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022			0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	0.0026 (J)	0.0051				
Mean	0.002343	0.01725	0.002448	0.004782	0.001378	0.003955
Std. Dev.	0.0008244	0.02581	0.0006416	0.0009994	0.001211	0.001918
Upper Lim.	0.002719	0.0147	0.0026	0.005	0.0012	0.005
Lower Lim.	0.001886	0.003357	0.0022	0.00042	0.00091	0.00094

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.88	<1.88	3.42	1.49	<1.88	<1.88	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
Mean	0.7754	0.6917	3.21	0.8504	0.6556	0.7413	0.8723
Std. Dev.	0.5117	0.2857	1.221	0.3446	0.3485	0.3675	0.4013
Upper Lim.	1.066	0.8492	3.883	1.041	0.948	0.9441	1.094
Lower Lim.	0.4848	0.5341	2.537	0.6603	0.261	0.5386	0.6509

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.1	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.1 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
2/23/2017			<0.1 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.1 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.1 (*)		<0.1 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.1 (*)			<0.1 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.1	0.49			<0.1
3/30/2018	<0.1	0.35			<0.1	<0.1	
6/11/2018							<0.1
6/12/2018				0.037 (J)	<0.1	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.1				
10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
10/3/2018					<0.1	0.31	
2/27/2019	<0.1	<0.1	<0.1	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.1	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.1	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				
Mean	0.08409	0.1302	0.09055	0.1575	0.1232	0.204	0.08573
Std. Dev.	0.02065	0.09494	0.02574	0.1014	0.07937	0.09764	0.03079
Upper Lim.	0.1	0.16	0.1	0.1919	0.12	0.2565	0.08932

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
Lower Lim.	0.064	0.044	0.07	0.09792	0.078	0.1516	0.05868

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001 (*)		
6/9/2016				<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001		
8/2/2016				<0.001	<0.001
9/20/2016	<0.001	<0.001	0.0002 (J)		
9/21/2016				<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001
1/18/2017	<0.001	<0.001		<0.001	
1/19/2017			<0.001		<0.001
2/21/2017	<0.001	<0.001		<0.001	
2/22/2017			<0.001		<0.001
5/3/2017		<0.001 (*)			
5/5/2017				<0.001 (*)	
5/8/2017	<0.001		<0.001		<0.001
6/30/2017			<0.001		
7/5/2017					<0.001
7/7/2017				7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)			
3/29/2018			<0.001		<0.001
3/30/2018	<0.001	<0.001		<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	6.2E-05 (J)	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)		7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		8.5E-05 (J)		<0.001
9/24/2020	<0.001	6.4E-05 (J)	0.00037 (J)	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	0.00072 (J)		
2/12/2021				5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)			
3/3/2021	<0.001		<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001			
8/20/2021	<0.001		0.00096 (J)	<0.001	<0.001
2/8/2022			<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001			
Mean	0.0008888	0.0007265	0.0007881	0.0007244	0.0008424
Std. Dev.	0.0003138	0.0004369	0.0003597	0.0004402	0.0003513
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	8E-05	0.00037	7E-05	0.00016

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	0.0067	<0.03			
6/9/2016				0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	0.008 (J)	<0.03			
8/2/2016				0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	0.0111 (J)	<0.03			
9/21/2016				0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016				0.0072 (J)		
1/18/2017	0.0066 (J)	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017			<0.03			0.0055 (J)
2/21/2017	0.0067 (J)				<0.03	
2/22/2017			<0.03	0.0064 (J)		0.0063 (J)
2/23/2017		0.0099 (J)				
5/5/2017				0.007 (J)	<0.03	
5/8/2017	0.007 (J)	0.0086 (J)	<0.03			0.0066 (J)
6/30/2017		0.0108 (J)	<0.03			
7/5/2017				0.0072 (J)		0.0058 (J)
7/7/2017					<0.03	
7/10/2017	0.0064 (J)					
3/29/2018		0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)			0.007 (J)	<0.03	
6/11/2018						0.0064 (J)
6/12/2018			<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	0.014 (J)				
10/2/2018	0.0064 (J)	0.012 (J)	<0.03			0.006 (J)
10/3/2018				0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019		0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)				<0.03	
9/25/2019	0.0073 (J)					0.0057 (J)
9/26/2019		0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020				0.007 (J)	<0.03	
3/20/2020	0.0072 (J)	0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	0.0067 (J)	0.00081 (J)			
2/11/2021				0.007 (J)		
2/12/2021					0.0053 (J)	<0.03
3/3/2021	0.0077 (J)	0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/20/2021	0.0079 (J)	0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022			<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	0.0072 (J)				
Mean	0.006957	0.008986	0.02724	0.00689	0.02882	0.00711
Std. Dev.	0.0006345	0.002015	0.008707	0.0003807	0.00539	0.005308
Upper Lim.	0.007307	0.0101	0.03	0.0071	0.03	0.0066
Lower Lim.	0.006607	0.007874	0.0013	0.00668	0.0053	0.0053

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
Mean	0.0001801	0.000181	0.0001799	0.0001793	0.0001899	0.0001901	0.0001791
Std. Dev.	5.243E-05	5.024E-05	5.298E-05	5.456E-05	3.925E-05	3.821E-05	5.526E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	4.9E-05	4.8E-05	5.2E-05	4.7E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0011 (J)			
6/9/2016		0.0011 (J)	<0.01	<0.01
8/1/2016	0.0018 (J)			
8/2/2016		0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01			
9/21/2016		<0.01	<0.01	<0.01
11/7/2016	<0.01		<0.01	<0.01
11/8/2016		<0.01		
1/18/2017	<0.01	<0.01	<0.01	
1/19/2017				<0.01
2/21/2017			<0.01	
2/22/2017		<0.01		<0.01
2/23/2017	<0.01			
5/5/2017		0.0014 (J)	0.0007 (J)	
5/8/2017	0.0011 (J)			<0.01
6/30/2017	<0.01			
7/5/2017		0.0014 (J)		<0.01
7/7/2017			<0.01	
3/29/2018	<0.01			<0.01
3/30/2018		<0.01	<0.01	
6/11/2018				<0.01
6/12/2018		<0.01	<0.01	
6/13/2018	<0.01			
10/2/2018	<0.01			<0.01
10/3/2018		<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01
4/1/2019	<0.01	<0.01		<0.01
4/2/2019			<0.01	
9/25/2019				<0.01
9/26/2019	0.0013 (J)	0.0013 (J)	<0.01	
2/13/2020	0.0014 (J)	0.0013 (J)	<0.01	<0.01
3/19/2020		0.0014 (J)	<0.01	
3/20/2020	0.0014 (J)			<0.01
9/24/2020	0.0015 (J)	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	0.0016 (J)			
2/11/2021		0.0012 (J)		
2/12/2021			<0.01	0.00083 (J)
3/3/2021	0.0017 (J)	0.0011 (J)	0.00083 (J)	<0.01
8/20/2021	0.0042 (J)	0.001 (J)	<0.01	<0.01
2/8/2022		0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	0.0018 (J)			
Mean	0.005662	0.004995	0.007795	0.009563
Std. Dev.	0.004282	0.004443	0.004042	0.002001
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.0014	0.0012	0.00083	0.00083

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-28I	YGWC-28S
6/8/2016	0.0016	0.0003 (J)		
6/9/2016			<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)		
8/2/2016			<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005		
9/21/2016			<0.005	0.001 (J)
11/7/2016	0.0017 (J)	<0.005		<0.005
11/8/2016			<0.005	
1/18/2017	0.002 (J)	0.0012 (J)	<0.005	<0.005
2/21/2017	0.0018 (J)	0.0014 (J)		<0.005
2/22/2017			0.0012 (J)	
5/3/2017		<0.005		
5/5/2017			<0.005	<0.005
5/8/2017	<0.005			
7/5/2017			<0.005	
7/7/2017				<0.005
7/10/2017	0.002 (J)	<0.005		
3/30/2018	<0.005	<0.005	<0.005	<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005
4/1/2019			<0.005	
4/2/2019	0.0017 (J)	<0.005		<0.005
9/25/2019	0.0019 (J)	<0.005		
9/26/2019			<0.005	<0.005
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005	<0.005
3/20/2020	0.0019 (J)			
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005		
2/11/2021			<0.005	
2/12/2021				<0.005
3/2/2021		<0.005		
3/3/2021	0.0034 (J)		<0.005	<0.005
8/19/2021		<0.005		
8/20/2021	0.0026 (J)		<0.005	<0.005
2/8/2022			<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005		
Mean	0.002574	0.004174	0.0048	0.004789
Std. Dev.	0.001081	0.001658	0.0008718	0.0009177
Upper Lim.	0.0034	0.005	0.005	0.005
Lower Lim.	0.0018	0.0014	0.0012	0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27S
6/8/2016	<0.001	0.00012 (J)
8/1/2016	<0.001	0.0001 (J)
9/20/2016	<0.001	<0.001
11/7/2016	<0.001	<0.001
1/18/2017	<0.001	
1/19/2017		<0.001
2/21/2017	<0.001	
2/22/2017		<0.001
5/3/2017	<0.001	
5/8/2017		0.0001 (J)
6/30/2017		0.0001 (J)
7/10/2017	<0.001	
3/29/2018		<0.001
3/30/2018	<0.001	
2/27/2019	<0.001	<0.001
2/13/2020	5.7E-05 (J)	0.0001 (J)
3/19/2020	5.5E-05 (J)	
3/20/2020		0.00011 (J)
9/24/2020	<0.001	<0.001
2/10/2021	<0.001	<0.001
2/8/2022		<0.001
2/10/2022	<0.001	
Mean	0.0008741	0.000642
Std. Dev.	0.0003322	0.0004539
Upper Lim.	0.001	0.001
Lower Lim.	5.7E-05	0.0001

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