



2021 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Plant Yates - Ash Pond 2

Newnan, Georgia

August 31, 2021

**2021 SEMIANNUAL
GROUNDWATER
MONITORING AND
CORRECTIVE ACTION
REPORT**

Plant Yates - Ash Pond 2
Newnan, Georgia

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SUMMARY

This summary of the 2021 Semiannual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from January through June 2021 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 6¹ of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

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

Groundwater at the Site is monitored using a monitoring system of 19 upgradient and seven downgradient wells. 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. During the 2021 semiannual reporting period, the Site remained in assessment monitoring.



Plant Yates and the Site

During the first half of the 2021 reporting period, Arcadis conducted two groundwater sampling events in February and March. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for March 2021 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV³ parameters.

Appendix III Parameter	March 2021
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28I, YGWC-28S

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.

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Appendix III Parameter	March 2021
Sulfate	YGWC-27S

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from January through June 2021, 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.

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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 2021 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 or engineer with Arcadis, U.S., Inc.

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1 INTRODUCTION

This 2021 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 and March 2021. 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 of both the annual monitoring for Appendix IV constituents conducted in February 2021 and the semiannual monitoring event conducted in March 2021 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 2021 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 (February and March 2021). During the February 2021 event, groundwater samples were collected and analyzed for 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b).

During the March 2021 semiannual sampling event, groundwater samples were collected for both 40 CFR 257 Appendix III and the Appendix IV constituents detected during the February 2021 event. 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 2021; the network remained the same as in the 2020 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.

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 IV parameters in February 2021 pursuant to 40 CFR § 257.95(b). In accordance with 40 CFR § 257.95(d), a semiannual assessment monitoring event occurred in March 2021, in which samples were collected and analyzed for Appendix III parameters and Appendix IV parameters detected at concentrations above the laboratory method detection limit (MDL) from the February 2021 event. A summary of groundwater sampling events completed during the first half of 2021 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. Water levels were collected at 14 monitoring wells within the certified well network along with eight non-network monitoring wells and/or piezometers. The groundwater elevation data are summarized in **Table 3**.

Saprolite and transition zone groundwater elevation data were used to prepare potentiometric surface elevation contour maps from February and March gauging events (**Figures 4 and 5**). In the first half of 2021, saprolite and transition zone groundwater elevations ranged from 821.75 feet (YGWA-2I) to 685.84 feet (YGWC-27I). 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 to 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 and March 2021 are presented in **Table 4**. The calculated average groundwater linear flow velocity was approximately 27 feet per year.

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; and
- Turbidity measurements less than 5 nephelometric turbidity units.

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 14 monitoring wells as summarized in **Table 2**. During the February 2021 sampling event, the AP-2 wells were sampled and analyzed for Appendix IV parameters according to 40 CFR § 257.95(b). Groundwater samples collected during the semiannual event in March 2021 were analyzed for Appendix III parameters as well as those Appendix IV parameters detected at concentrations above the laboratory MDL during the February 2021 event in accordance with 40 CFR § 257.95(d). **Table 5** provides a summary of the constituents monitored during the events. Mercury and thallium were not detected at concentrations above the laboratory MDL during the February

2021 scan event and, therefore, were not analyzed during the March event. 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 2021 sampling events are 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 March 2021 data validation reports included in **Appendix B** summarize the validation actions and applicable interpretation.

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling, 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 March 2021 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.

USEPA revised the federal CCR Rule on July 30, 2018, providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR 257.95(h)(2). Presently, those updated GWPS have not yet been incorporated into the current GAEPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, background concentrations are considered when determining the GWPS for constituents for which an MCL has not been established (or where background is higher than the MCL). Under the existing GAEPD rules, the GWPS is:

- The MCL; or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above federal and state rules, 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 March 2021 sampling event along with the GWPS established under federal and state rules.

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, an SSL exceedance was identified.

4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the Site was performed to determine whether constituent concentrations have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine whether concentrations statistically exceed the established GWPS. Appendix III and Appendix IV data from the March 2021 semiannual events 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 March 2021 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 March 2021 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 D**.

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 March 2021 semiannual sampling events. The next assessment monitoring event is scheduled for August 2021.

7 REFERENCES

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TABLES

Table 1. Monitoring Network Well Summary
2021 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

Well ID	Hydraulic Location	Assessment Monitoring ¹	2021 Semiannual Sampling ²
		February 8 - 12, 2021	March 1 - 4, 2021
YGWA-1I	Upgradient	X	X
YGWA-1D	Upgradient	X	X
YGWA-2I	Upgradient	X	X
YGWA-3I	Upgradient	X	X
YGWA-3D	Upgradient	X	X
YGWA-14S	Downgradient	X	X
YGWA-30I	Downgradient	X	X
YGWC-26S	Downgradient	X	X
YGWC-26I	Downgradient	X	X
YGWC-27S	Downgradient	X	X
YGWC-27I	Downgradient	X	X
YGWC-28S	Downgradient	X	X
YGWC-28I	Downgradient	X	X
YGWC-29I	Downgradient	X	X

Notes:

1. All wells analyzed for Appendix IV.
 2. Appendix III and detected Appendix IV.
- Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.
 Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.
 USEPA = United States Environmental Protection Agency
 CCR = Coal Combustion Residuals

Table 3. Summary of Groundwater Elevations - February and March 2021
2021 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)
February 2021				
YGWA-1I	2/8/2021	836.60	37.84	798.76
YGWA-1D	2/8/2021	837.25	48.50	788.75
YGWA-2I	2/8/2021	866.25	44.96	821.29
YGWA-3I	2/8/2021	796.55	52.34	744.21
YGWA-3D	2/8/2021	796.78	29.44	767.34
YGWA-14S	2/8/2021	748.76	17.56	731.20
YGWA-30I	2/8/2021	762.58	59.48	703.10
YGWC-26S	2/8/2021	716.28	25.43	690.85
YGWC-26I	2/8/2021	715.91	26.05	689.86
YGWC-27S	2/8/2021	716.52	29.68	686.84
YGWC-27I	2/8/2021	716.19	29.58	686.61
YGWC-28S	2/8/2021	717.95	27.68	690.27
YGWC-28I	2/8/2021	717.93	29.50	688.43
YGWC-29I	2/8/2021	717.39	27.80	689.59
PZ-01S	2/8/2021	836.84	32.86	803.98
PZ-03S	2/8/2021	796.39	35.71	760.68
PZ-13S	2/8/2021	807.79	35.94	771.85
PZ-13I	2/8/2021	807.62	39.33	768.29
PZ-14I	2/8/2021	749.06	18.83	730.23
PZ-25S	2/8/2021	766.60	35.64	730.96
PZ-25I	2/8/2021	766.38	36.93	729.45
PZ-31S	2/8/2021	738.62	16.18	722.44
March 2021				
YGWA-1I	3/1/2021	836.60	37.25	799.35
YGWA-1D	3/1/2021	837.25	47.88	789.37
YGWA-2I	3/1/2021	866.25	44.50	821.75
YGWA-3I	3/1/2021	796.55	52.36	744.19
YGWA-3D	3/1/2021	796.78	29.30	767.48
YGWA-14S	3/1/2021	748.76	16.70	732.06
YGWA-30I	3/1/2021	762.58	43.88	718.70
YGWC-26S	3/1/2021	716.28	24.86	691.42
YGWC-26I	3/1/2021	715.91	25.99	689.92
YGWC-27S	3/1/2021	716.52	30.35	686.17
YGWC-27I	3/1/2021	716.19	30.35	685.84
YGWC-28S	3/1/2021	717.95	28.06	689.89
YGWC-28I	3/1/2021	717.93	29.79	688.14
YGWC-29I	3/1/2021	717.39	28.21	689.18
PZ-01S	3/1/2021	836.84	32.42	804.42
PZ-03S	3/1/2021	796.39	35.72	760.67
PZ-13S	3/1/2021	807.79	35.64	772.15
PZ-13I	3/1/2021	807.62	38.94	768.68
PZ-14I	3/1/2021	749.06	18.10	730.96
PZ-25S	3/1/2021	766.60	35.39	731.21
PZ-25I	3/1/2021	766.38	36.76	729.62
PZ-31S	3/1/2021	738.62	16.49	722.13

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

Equation

$$V = \frac{K}{n_e} (dh/dl) \quad \text{where:}$$

V = groundwater velocity
 K = i = hydraulic conductivity
 dh/dl = 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	803.98		February 2021
YGWA-14S	731.20		
PZ-13S	771.85		
YGWC-28	690.27	feet	
YGWA-14	731.20		
PZ-31S	722.44		
PZ-01S	804.42		March 2021
YGWA-14S	732.06		
PZ-13S	772.15		
YGWC-28	689.89	feet	
YGWA-14	732.06		
PZ-31S	722.13		
i ₁ = 0.028		unitless	Hydraulic gradient from: PZ-01S to YGWA-14S (Feb. 2021) PZ-13S to YGWC-28 (Feb. 2021) YGWA-14 to PZ-31S (Feb. 2021) Average
i ₂ = 0.056		unitless	
i ₃ = 0.017		unitless	
i _{avg} = 0.033		unitless	
i ₁ = 0.028		unitless	PZ-01S to YGWA-14S (Mar. 2021) PZ-13S to YGWC-28 (Mar. 2021) YGWA-14 to PZ-31S (Mar. 2021) Average
i ₂ = 0.056		unitless	
i ₃ = 0.019		unitless	
i _{avg} = 0.034		unitless	
n _e = 0.20		unitless	See note 2

Minimum Linear Flow Velocity

February 2021

$$V_{\min} = \frac{(0.003)(0.033)}{0.20}$$

$$V_{\min} = 0.0005 \text{ ft/day, or } 0.2 \text{ ft/year}$$

March 2021

$$V_{\min} = \frac{(0.003)(0.034)}{0.20}$$

$$V_{\min} = 0.0005 \text{ ft/day, or } 0.2 \text{ ft/year}$$

Maximum Linear Flow Velocity

February 2021

$$V_{\max} = \frac{(8.57)(0.033)}{0.20}$$

$$V_{\max} = 1.4 \text{ ft/day, or } 511 \text{ ft/year}$$

March 2021

$$V_{\max} = \frac{(8.57)(0.034)}{0.20}$$

$$V_{\max} = 1.5 \text{ ft/day, or } 548 \text{ ft/year}$$

Average Linear Flow Velocity

February 2021

$$V_{\text{avg}} = \frac{(0.43)(0.033)}{0.2}$$

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

March 2021

$$V_{\text{avg}} = \frac{(0.43)(0.034)}{0.2}$$

$$V_{\text{avg}} = 0.07 \text{ ft/day, or } 27 \text{ ft/year}$$

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
2021 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
	<i>Mercury</i>
	Molybdenum
	Combined Radium - 226/228
	Selenium
	<i>Thallium</i>

Notes:

Italicized groundwater monitoring parameters were not detected during the annual assessment event (February 2021) and therefore not included in March 2021 semiannual parameter list.

CFR = Code of Federal Regulations

	Analyte	YGWA-1I	YGWA-1I	YGWA-1D	YGWA-1D	YGWA-2I	YGWA-2I	YGWA-3I	YGWA-3I
		2/12/2021	3/3/2021	2/12/2021	3/3/2021	2/10/2021	3/3/2021	2/10/2021	3/3/2021
Appendix III	pH	6.21	5.38	7.14	7.20	7.29	7.92	7.58	8.23
	Boron	--	< 0.0052	--	< 0.0052	--	< 0.0052	--	< 0.0052
	Calcium	--	1.8	--	14.1	--	25.6	--	20.6
	Chloride	--	1.2	--	0.96 J	--	0.86 J	--	0.99 J
	Fluoride	< 0.050	< 0.050	0.068 J	0.078 J	0.094 J	0.085 J	< 0.050	0.10
	Sulfate	--	4.4	--	9.0	--	10.6	--	9.6
	Total Dissolved Solids	--	39.0	--	99.0	--	138	--	111
Appendix IV	Antimony	< 0.00028	< 0.00028	< 0.00028	< 0.00028	0.0013 J	< 0.00028	< 0.00028	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00098 J	0.00078 J	< 0.00078
	Barium	0.0090 J	0.0094	0.0057 J	0.0068	0.0032 J	0.0041 J	0.0029 J	0.0031 J
	Beryllium	< 0.000046	< 0.000046	< 0.000046	< 0.000046	< 0.000046	< 0.000046	< 0.000046	< 0.000046
	Cadmium	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
	Chromium	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055
	Cobalt	0.0028 J	0.0030 J	0.00086 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
	Lead	0.00038 J	< 0.000036	0.000044 J	0.000056 J	0.00015 J	< 0.000036	< 0.000036	< 0.000036
	Lithium	0.0025 J	0.0025 J	0.010 J	0.012 J	0.0039 J	0.0016 J	0.015 J	0.017 J
	Mercury	< 0.000078	--	< 0.000078	--	< 0.000078	--	< 0.000078	--
	Molybdenum	0.0056 J	0.0049 J	0.0080 J	0.0088 J	0.0041 J	0.0074 J	0.0038 J	0.0036 J
	Combined Radium - 226/228	< 0.458 U	< 0.105 U	< 0.366 U	< 0.492 U	< 1.04 U	< 0.459 U	2.46	2.03
	Selenium	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
	Thallium	< 0.00014	--	< 0.00014	--	< 0.00014	--	< 0.00014	--

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

	Analyte	YGWA-3D	YGWA-3D	YGWA-14S	YGWA-14S	YGWA-30I	YGWA-30I	YGWC-26S	YGWC-26S
		2/10/2021	3/3/2021	2/10/2021	3/2/2021	2/11/2021	3/1/2021	2/10/2021	3/2/2021
Appendix III	pH	7.81	8.39	5.35	5.49	5.73	5.78	5.18	5.38
	Boron	--	< 0.0052	--	0.017 J	--	< 0.0052	--	0.57
	Calcium	--	29.8	--	1.2	--	1.2	--	12.9
	Chloride	--	1.1	--	4.9	--	1.6	--	13.2
	Fluoride	0.43	0.44	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	--	7.0	--	6.0	--	0.88 J	--	92.7
	Total Dissolved Solids	--	137	--	67.0	--	23.0	--	154
Appendix IV	Antimony	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Arsenic	0.00094 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Barium	0.0059 J	0.0064	0.0078 J	0.0076	0.0077 J	0.0070	0.031	0.031
	Beryllium	< 0.000046	< 0.000046	0.00019 J	0.00018 J	0.000047 J	< 0.000046	0.00013 J	0.00016 J
	Cadmium	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
	Chromium	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00091 J	0.0010 J
	Cobalt	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.0078	0.0061	0.0017 J	0.0021 J
	Lead	< 0.000036	< 0.000036	0.000048 J	< 0.000036	0.000046 J	< 0.000036	0.000050 J	0.000056 J
	Lithium	0.023 J	0.024 J	< 0.00081	< 0.00081	0.0012 J	0.0011 J	< 0.00081	< 0.00081
	Mercury	< 0.000078	--	< 0.000078	--	< 0.000078	--	< 0.000078	--
	Molybdenum	0.014	0.013	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069
	Combined Radium - 226/228	3.65	3.58	< 0.353 U	< 0.710 U	< 0.678 U	< 0.412 U	< 0.410 U	< 0.394 U
	Selenium	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
	Thallium	< 0.00014	--	< 0.00014	--	< 0.00014	--	< 0.00014	--

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

	Analyte	YGWC-26I	YGWC-26I	YGWC-27S	YGWC-27S	YGWC-27I	YGWC-27I	YGWC-28S	YGWC-28S
		2/10/2021	3/3/2021	2/10/2021	3/3/2021	2/10/2021	3/3/2021	2/12/2021	3/3/2021
Appendix III	pH	5.96	5.93	6.21	6.35	6.29	6.43	6.60	6.61
	Boron	--	0.69	--	1.2	--	2.0	--	2.3
	Calcium	--	16.1	--	30.2	--	25.7	--	28.4
	Chloride	--	16.6	--	4.0	--	13.0	--	18.0
	Fluoride	0.050 J	0.050 J	0.084 J	< 0.050	0.055 J	0.058 J	0.069 J	0.13
	Sulfate	--	89.3	--	451	--	2.6	--	4.9
	Total Dissolved Solids	--	205	--	178	--	173	--	217
Appendix IV	Antimony	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Barium	0.060	0.064	0.088	0.075	0.080	0.080	0.057	0.25
	Beryllium	< 0.000046	< 0.000046	0.000066 J	< 0.000046	0.00014 J	0.00013 J	< 0.000046	< 0.000046
	Cadmium	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00048 J	< 0.00012
	Chromium	0.00065 J	< 0.00055	0.0027 J	0.00058 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055
	Cobalt	< 0.00038	< 0.00038	0.0025 J	0.0017 J	0.0048 J	0.0042 J	< 0.00038	0.0010 J
	Lead	0.000051 J	< 0.000036	0.00072 J	< 0.000036	< 0.000036	< 0.000036	0.000052 J	< 0.000036
	Lithium	0.0067 J	0.0077 J	0.00081 J	< 0.00081	0.0067 J	0.0066 J	0.0053 J	< 0.00081
	Mercury	< 0.000078	--	< 0.000078	--	< 0.000078	--	< 0.000078	--
	Molybdenum	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.0016 J	0.0017 J	< 0.00069	0.00083 J
	Combined Radium - 226/228	< 0.513 U	< 0.419 U	< 0.663 U	< 0.327 U	2.47	1.39	< 0.419 U	1.04
	Selenium	0.0026 J	0.0034 J	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
	Thallium	< 0.00014	--	< 0.00014	--	< 0.00014	--	< 0.00014	--

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

Table 6. Groundwater Analytical Data - February and March 2021
 2021 Semiannual Groundwater Monitoring and Corrective Action Report
 Georgia Power Company
 Plant Yates - AP-2



	Analyte	YGWC-28I	YGWC-28I	YGWC-29I	YGWC-29I
		2/11/2021	3/3/2021	2/12/2021	3/3/2021
Appendix III	pH	6.57	6.51	6.24	6.27
	Boron	--	1.8	--	0.62
	Calcium	--	30.9	--	9.5
	Chloride	--	14.6	--	6.7
	Fluoride	0.066 J	0.072 J	0.17	0.056 J
	Sulfate	--	8.6	--	26.6
	Total Dissolved Solids	--	184	--	110
Appendix IV	Antimony	< 0.00028	< 0.00028B	< 0.00028	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Barium	0.078	0.077	0.21	0.059
	Beryllium	< 0.000046	< 0.000046	< 0.000046	< 0.000046
	Cadmium	0.00052 J	0.00014 J	< 0.00012	0.00029 J
	Chromium	< 0.00055	< 0.00055	< 0.00055	< 0.00055
	Cobalt	< 0.00038	< 0.00038	0.00094 J	< 0.00038
	Lead	< 0.000036	< 0.000036	0.000066 J	0.00016 J
	Lithium	0.0070 J	0.0063 J	< 0.00081	0.0054 J
	Mercury	< 0.000078	--	< 0.000078	--
	Molybdenum	0.0012 J	0.0011 J	0.00083 J	< 0.00069
	Combined Radium - 226/228	1.07	< 0.261 U	0.826	0.955
	Selenium	< 0.0016	< 0.0016	< 0.0016	< 0.0016
	Thallium	< 0.00014	--	< 0.00014	--

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

**Table 7. Background Levels and Groundwater Protection Standards
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2**



Constituent	Units	Background	Federal GWPS	State GWPS
March 2021				
Antimony	mg/L	0.0047	0.006	0.006
Arsenic	mg/L	0.005	0.010	0.010
Barium	mg/L	0.071	2	2
Beryllium	mg/L	0.0005	0.004	0.004
Cadmium	mg/L	0.0005	0.005	0.005
Chromium	mg/L	0.0093	0.100	0.100
Cobalt	mg/L	0.035	0.035 ³	0.035 ³
Fluoride	mg/L	0.680	4	4
Lead	mg/L	0.0013	0.015	0.0013
Lithium	mg/L	0.030	0.040	0.030
Mercury	mg/L	0.0002	0.002	0.002
Molybdenum	mg/L	0.014	0.100	0.014
Selenium	mg/L	0.005	0.050	0.050
Thallium	mg/L	0.001	0.002	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 ³	6.92 ³

Notes:

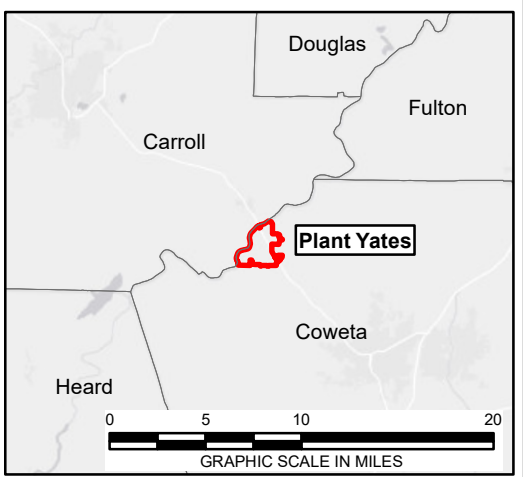
1. Site background: Tolerance limits calculated from pooled upgradient well data.
2. Federal GWPS = Groundwater Protection Standard per 40 CFR §257.95(h).
3. Background concentration is higher than the federally promulgated value (0.006 mg/L for Cobalt). Background is higher than radium MCL (5 mg/L). Therefore, background is the GWPS.

Acronyms and Abbreviations:

CFR = Code of Federal Regulations
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
pCi/L = picocuries per liter

FIGURES

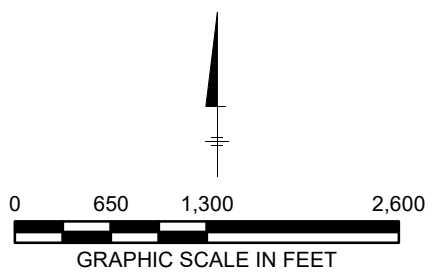




LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

NOTE:
 AERIAL IMAGE SOURCES: NOVEMBER 11, 2020
 IMAGERY FLOWN AND PROCESSED BY SAM LLC;
 NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP)
 2019 IMAGERY.

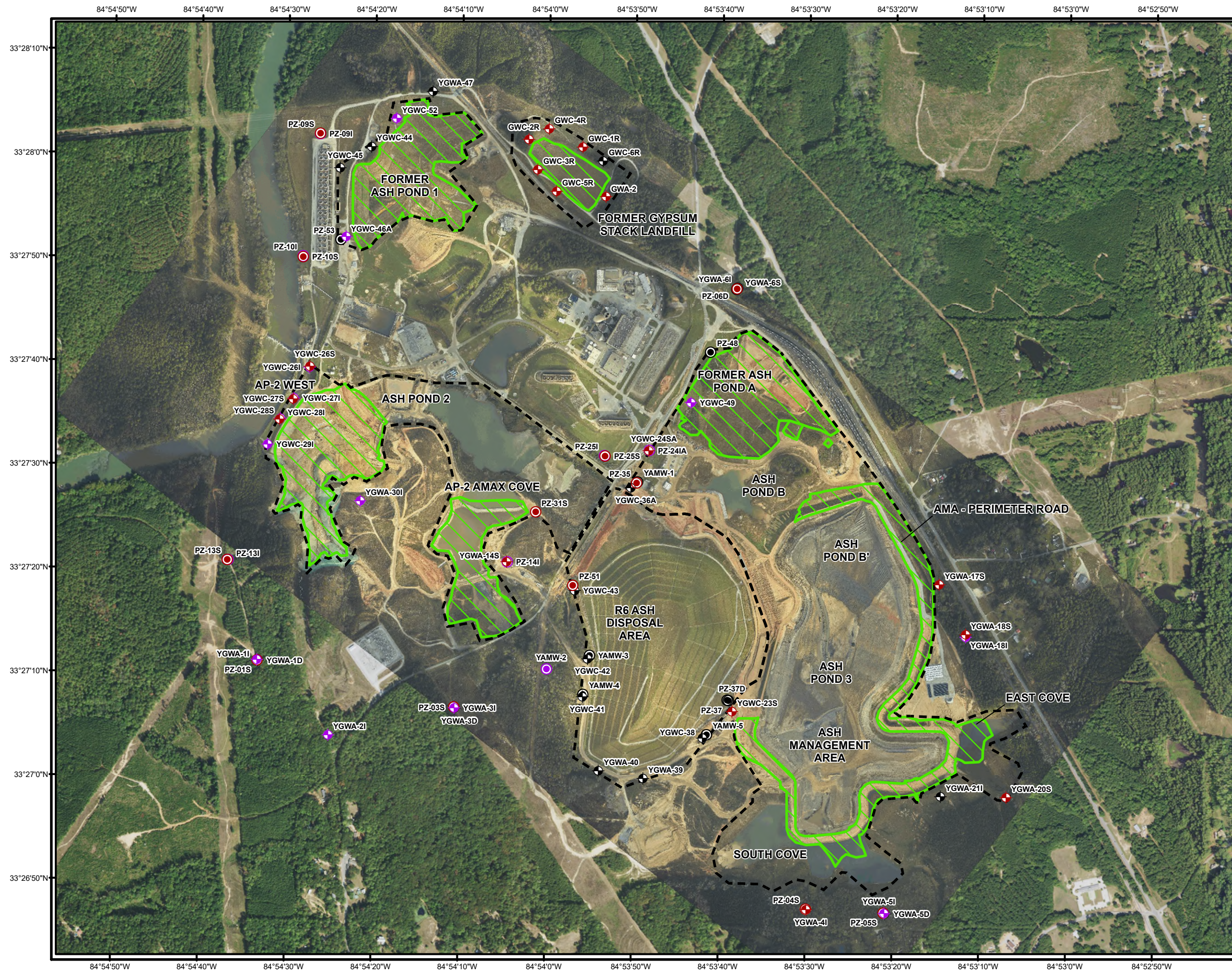


COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

 **Georgia Power**
 PLANT YATES AP-2
 NEWNAN, GA
 2021 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

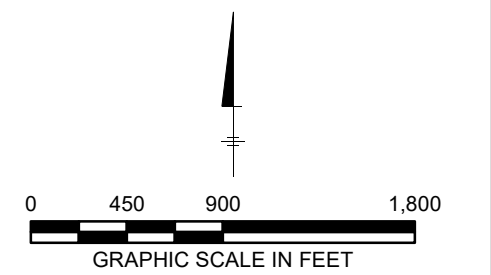
 **ARCADIS** FIGURE
1



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 8/31/2021

NOTE:
 AERIAL IMAGE SOURCES: NOVEMBER 11, 2020
 IMAGERY FLOWN AND PROCESSED BY SAM LLC;
 NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP)
 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

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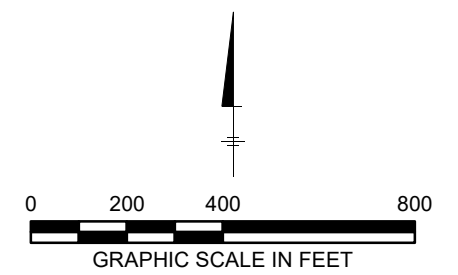
PLANT YATES CCR REMOVAL AREAS

ARCADIS FIGURE
2



- 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

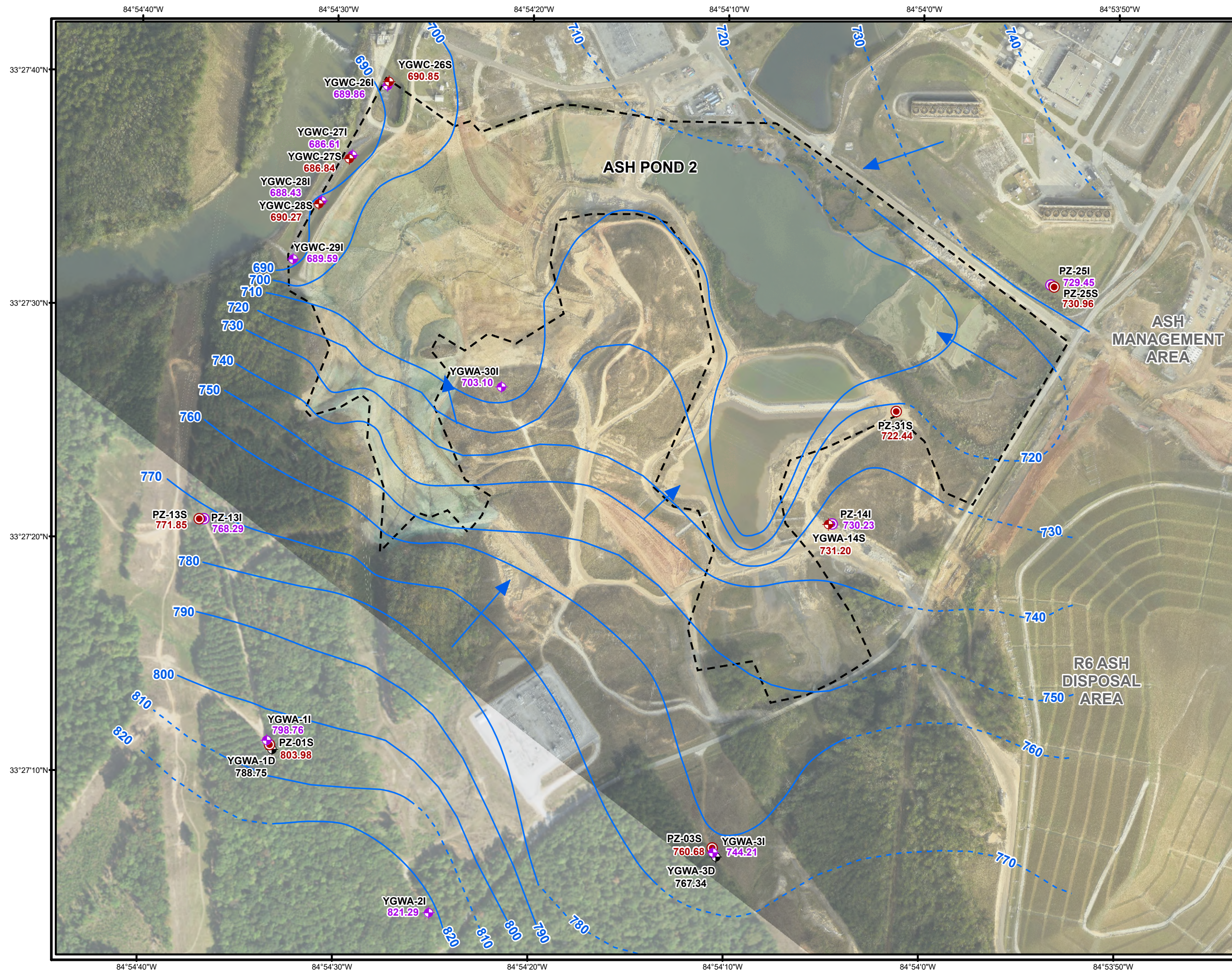
NOTE:
 AERIAL IMAGE SOURCES: NOVEMBER 11, 2020
 IMAGERY FLOWN AND PROCESSED BY SAM LLC;
 NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP)
 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

Georgia Power
 PLANT YATES AP-2
 NEWNAN, GA
 2021 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP



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
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

731.20 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: NOVEMBER 11, 2020 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).

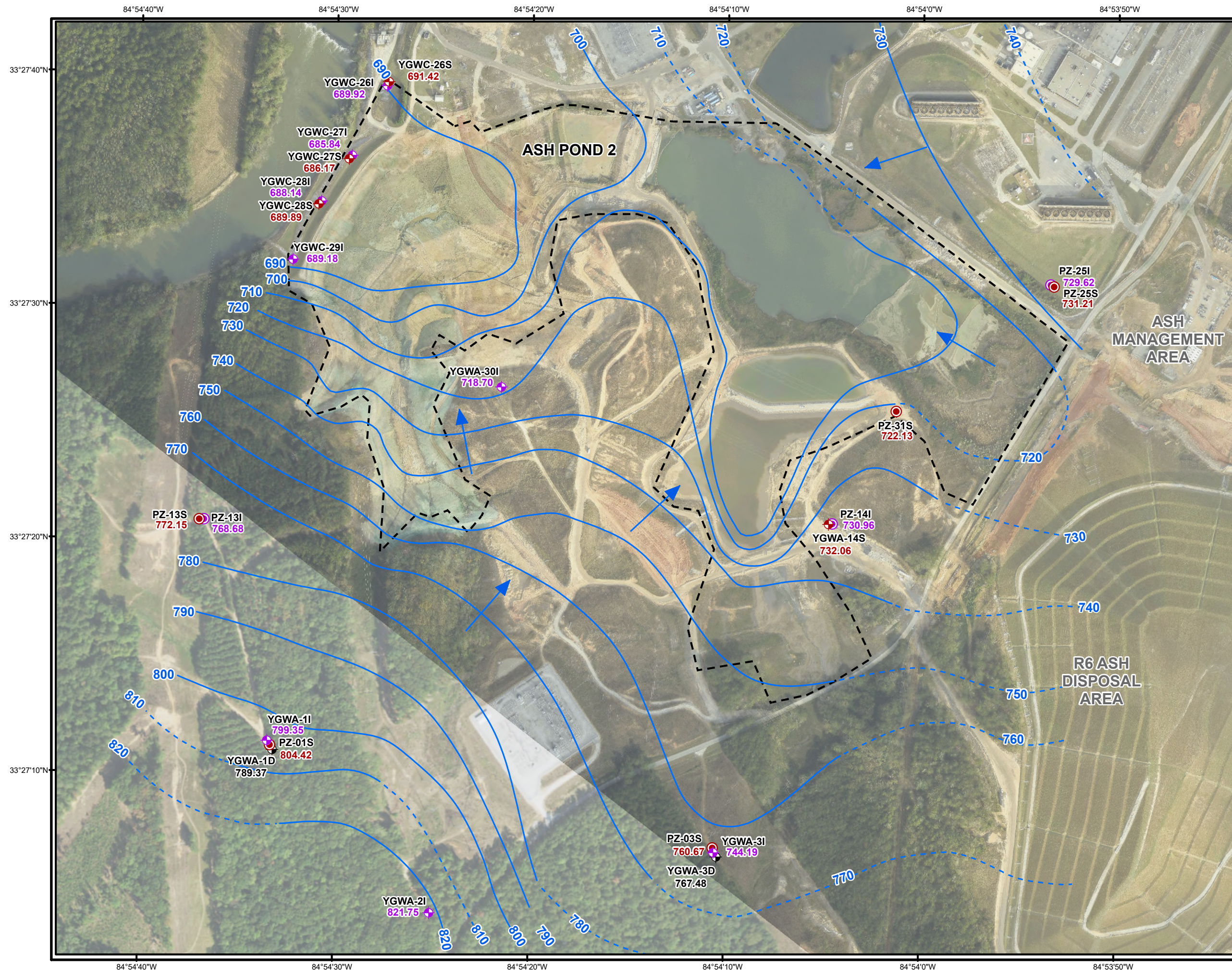
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

Georgia Power
 PLANT YATES AP-2
 NEWNAN, GA
2021 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP
FEBRUARY 2021

FIGURE
4

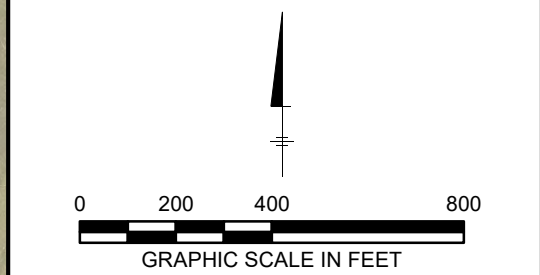


LEGEND


- 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

730.96 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: NOVEMBER 11, 2020 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).



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET



Georgia Power
PLANT YATES AP-2
NEWNAN, GA

**2021 SEMIANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT**

**GROUNDWATER ELEVATION MAP
MARCH 2021**




FIGURE
5


APPENDIX A

Field Sampling Forms (February and March 2021)



February 2021 Event

2021 Semiannual Groundwater and Corrective Action Report
Plant Yates AP-3, A, B, B' and R6 CCR Landfill
Newnan, GA



February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/08/21 Time: 14:30

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	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 used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/09/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	NA

Date: 2/09/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	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 used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/10/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	229	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Date: 2/10/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	228	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	NA	0.00	NA
10.0	NTU	NA	10.00	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 used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/11/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	229	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Date: 2/11/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	228	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	NA	0.00	NA
10.0	NTU	NA	10.00	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 used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever

Instrument Calibration

Date: 2/12/21 Time: 07:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	NA	NA
Conductivity	us/cm	8000	8000	NA	NA
pH	S.U.	4.00	4.00	NA	NA
pH	S.U.	6.98	6.98	NA	NA
pH	S.U.	10.00	10.00	NA	NA
ORP	mV	232.0	232.0	NA	NA

Turbidity Standard	Units	LaMotte SN 5961-3815	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	NA	NA
10.0	NTU	10.00	10.00	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

NA = not used that day

Client:		Georgia Power			
Project Location:		AP-2			
Date:		2/8/2021			
Sampler:		Becky Steever			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-2I	2/8/2021	09:16:00	44.96	63.75	--
YGWA-1D	2/8/2021	09:39:00	48.50	128.85	--
PZ-1S	2/8/2021	09:42:00	32.86	36.34	--
YGWA-1I	2/8/2021	09:45:00	37.84	53.60	--
PZ-13S	2/8/2021	09:50:00	35.94	43.79	--
PZ-13I	2/8/2021	09:58:00	39.33	59.22	--
PZ-3S	2/8/2021	10:02:00	35.71	42.39	--
YGWA-3I	2/8/2021	10:15:00	52.34	59.05	--
YGWA-3D	2/8/2021	10:18:00	29.44	134.18	--
YGWA-14S	2/8/2021	10:25:00	17.56	34.96	--
PZ-14I	2/8/2021	10:42:00	18.83	50.86	--
PZ-31S	2/8/2021	10:48:00	16.18	34.72	--
YGWA-30I	2/8/2021	10:52:00	44.35	59.48	--
PZ-25I	2/8/2021	11:03:00	36.93	84.58	--
PZ-25S	2/8/2021	11:22:00	35.64	56.80	--
YGWC-26S	2/8/2021	12:00:00	25.43	40.18	--
YGWC-26I	2/8/2021	12:04:00	26.05	69.81	--
YGWC-27I	2/8/2021	12:11:00	29.58	79.99	--
YGWC-27S	2/8/2021	12:19:00	29.68	40.52	--
YGWC-28I	2/8/2021	12:30:00	29.50	69.93	--
YGWC-28S	2/8/2021	12:32:00	27.68	44.95	--
YGWC-29I	2/8/2021	12:47:00	27.80	39.59	--

Client:		Georgia Power			
Project Location:		AP-2			
Date:		3/1/2021			
Sampler:		Katie Pupkiewicz			
Equipment:		--			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-14S	3/1/2021	12:04:00	16.70	34.96	Well pad cannot be seen
PZ-14I	3/1/2021	12:08:00	18.10	50.86	Well pad cannot be seen
PZ-31S	3/1/2021	12:13:00	16.49	34.72	--
YGWA-30I	3/1/2021	12:20:00	43.88	59.48	--
PZ-3S	3/1/2021	12:35:00	35.72	42.39	--
YGWA-3I	3/1/2021	12:39:00	52.36	59.05	--
YGWA-3D	3/1/2021	12:42:00	29.30	134.18	--
YGWA-2I	3/1/2021	13:39:00	44.50	63.75	--
YGWA-1I	3/1/2021	13:42:00	37.25	53.60	--
PZ-1S	3/1/2021	13:46:00	32.42	36.34	--
YGWA-1D	3/1/2021	13:48:00	47.88	128.85	--
PZ-13S	3/1/2021	13:52:00	35.64	43.79	--
PZ-13I	3/1/2021	13:56:00	38.94	59.22	--
PZ-25S	3/1/2021	14:10:00	35.39	56.80	--
PZ-25I	3/1/2021	14:12:00	36.76	84.58	--
YGWC-29I	3/1/2021	14:24:00	28.21	39.59	--
YGWC-28S	3/1/2021	14:54:00	28.06	44.95	--
YGWC-28I	3/1/2021	14:55:00	29.79	69.93	--
YGWC-27S	3/1/2021	15:01:00	30.35	40.52	--
YGWC-27I	3/1/2021	15:03:00	30.35	79.99	--
YGWC-26S	3/1/2021	15:10:00	24.86	40.18	--
YGWC-26I	3/1/2021	15:11:00	25.99	69.81	--

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-2I	Date	02/10/2021		
Project Location	AP-2	Weather(°F)	68.0 degrees F and Clear. The wind is blowing E/SE 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)	44.9	Total Depth (ft-bmp)	63.75	Water Column(ft)	18.85	Gallons in Well	3.06
MP Elevation	866.25	Pump Intake (ft-bmp)	60	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:40	Well Volumes Purged	0.45	Sample ID	YGWA-2I	Sampled by	Becky Steever
Purge Start	10:41	Gallons Purged	1.37	Replicate/ Code No.		Color	Clear
Purge End	12:39						

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)
10:41:35	00:00	45	45.45	7.21	202.10	22.74	8.56	14.4	210.56
10:46:35	05:00	45	46.28	7.31	255.83	4.49	4.19	15.6	-77.14
10:51:35	10:00	45	46.75	7.42	241.50	3.18	2.74	16.1	-62.33
10:56:35	15:00	45	47.24	7.60	0.06	0.51	2.35	17.6	-43.77
11:01:35	20:00	45	47.55	7.25	0.06	0.16	3.32	18.9	-7.49
11:06:35	25:00	45	47.86	7.50	263.14	0.38	2.39	17.9	-96.50
11:11:35	30:00	45	48.09	7.42	272.18	0.61	4.43	18.3	-88.36
11:16:35	35:00	45	48.3	7.41	268.37	0.66	2.29	18.0	-88.23
11:21:35	40:00	45	48.58	7.37	271.49	0.98	2.18	18.0	-82.05
11:26:35	45:00	45	48.82	7.34	255.31	0.69	2.21	17.9	-74.02
11:31:35	50:00	45	49.08	7.38	254.07	0.75	2.24	17.8	-74.29
11:36:35	55:00	45	49.3	7.35	251.92	1.35	2.30	18.0	-64.60
11:41:35	00:00	40	49.51	7.33	251.77	2.96	2.33	18.2	-63.33
11:46:35	05:00	40	49.79	7.35	250.27	2.56	2.32	18.6	-62.86
11:51:35	10:00	40	49.84	7.33	251.85	4.70	2.21	18.5	-60.14
11:56:35	15:00	43	50.13	7.33	249.24	6.05	2.24	18.4	-56.65
12:01:35	20:00	40	50.76	7.32	244.83	9.20	2.18	18.2	-53.59
12:06:35	25:00	40	50.97	7.29	243.86	10.44	2.23	18.5	-51.48
12:11:35	30:00	40	51.11	7.30	243.13	10.71	2.18	18.7	-45.47
12:16:35	35:00	40	52.1	7.30	242.49	14.35	2.28	18.5	-44.50
12:21:35	40:00	40	51.35	7.30	242.56	18.27	2.30	18.6	-45.62
12:26:35	45:00	45	51.5	7.30	242.07	19.66	2.32	18.7	-45.53
12:31:35	50:00	45	51.63	7.29	243.55	23.57	2.19	19.0	-44.47

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: Well historically purged around 40-50 ml/minute because of slow recharge.
 Turbidity from stand alone meter: 10.3, 9.6, 8.4, 6.7, 5.21, 0.88, 0.97, 0.66, 0.99, 10.2, 5.63, 5.88, 6.73, 6.01, 7.88, 5.12, 5.19, 5.06, 4.88, 3.01, 3.15, 2.89, 2.61, 1.87, 1.6, 1.31,
 Turbidity mid sampling 1.2

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YGWC-26S	Date	02/10/2021		
Project Location	AP-2	Weather(°F)	Sunny, dry				
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)	26.55	Total Depth (ft-bmp)	40.18	Water Column(ft)	13.63	Gallons in Well	2.21
MP Elevation	716.28	Pump Intake (ft-bmp)	37	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:00	Well Volumes Purged	0.51	Sample ID	YGWC-26S	Sampled by	Peter Argyakis
Purge Start	09:33	Gallons Purged	1.14	Replicate/ Code No.		Color	Clear
Purge End	09:58						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:33:20	00:00	250	26.55	5.85	316.89	0.00	7.74	15.4	83.91
09:38:20	05:00	200	26.8	5.02	290.91	27.81	0.65	17.5	177.29
09:43:20	10:00	100	27.12	5.05	290.81	2.31	0.42	17.7	197.71
09:48:20	15:00	100	27.31	5.10	292.66	0.00	0.35	17.6	201.35
09:53:20	20:00	100	27.39	5.14	293.42	1.78	0.34	17.7	199.66
09:58:20	25:00	100	27.5	5.18	294.85	0.00	0.35	17.6	197.90

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings (time:NTU)
 0933: 3.10
 0938: 2.34
 0943: 2.16
 0948: 2.88
 0953: 2.15
 0958: 2.22

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30053437	Well ID	YGWA-30I	Date	02/11/2021		
Project Location	AP-2	Weather(°F)	62.1 degrees F and Cloudy. The wind is blowing undefined at 0.0 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)	44.34	Total Depth (ft-bmp)	59.48	Water Column(ft)	15.14	Gallons in Well	2.46
MP Elevation	762.58	Pump Intake (ft-bmp)	54.5	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:50	Well Volumes Purged	0.93	Sample ID	YGWA-30I	Sampled by	Katie Pupkiewicz
Purge Start	09:01	Gallons Purged	2.30	Replicate/ Code No.	FB-02	Color	Clear
Purge End	09:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:01:52	00:00	160	44.34	9.55	89.01	193.33	9.66	14.6	153.49
09:06:52	05:00	160	44.36	8.38	57.50	0.09	7.56	16.2	151.32
09:11:52	10:00	160	44.36	7.79	57.32	0.06	7.33	16.4	138.33
09:14:34	12:42	160	44.36	7.34	57.40	0.38	8.22	16.4	150.83
09:19:34	17:42	160	44.33	6.74	53.64	0.05	7.28	16.4	146.95
09:24:34	22:42	160	44.37	6.54	53.49	0.10	7.30	16.5	143.06
09:29:34	27:42	160	44.37	6.28	52.94	0.10	7.26	16.5	142.17
09:34:34	32:42	160	44.39	5.97	36.16	0.10	9.51	16.4	166.24
09:39:34	37:42	160	44.36	5.92	52.62	0.87	7.52	16.3	149.81
09:44:34	42:42	160	44.35	5.82	52.53	2.11	7.51	16.2	153.33
09:49:34	47:42	160	44.35	5.76	53.42	0.21	7.52	16.2	156.09
09:53:05	51:13	160	44.35	5.73	52.52	0.09	7.48	16.2	160.20

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings every five minutes in accordance with VuSitu purge log
 0.70
 1.33
 0.89
 0.06
 0.21
 0.06
 0.29
 1.57
 1.41
 1.02
 0.76

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Well Casing Volume Conversion

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

Well Information

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

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
 μ S/cm = microSiemens per centimeters

mV = millivolts
 $^{\circ}$ F = degrees Fahrenheit
 $^{\circ}$ C = degrees Celsius

Groundwater Sampling Form

Project Number 30052922 **Well ID** YGWC-29I **Date** 02/12/2021

Project Location AP-2 **Weather(°F)**

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)	28.2	Total Depth (ft-bmp)	39.59	Water Column(ft)	11.39	Gallons in Well	1.85
MP Elevation	717.39	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:20	Well Volumes Purged	0.34	Sample ID	YGWC-29I	Sampled by	Becky Steever
Purge Start	14:02	Gallons Purged	0.63	Replicate/ Code No.		Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:02:06	00:00	200	28.2	6.58	238.89	0.04	7.63	14.6	45.42
14:07:06	05:00	100	29.02	6.33	230.00	0.02	3.26	16.2	42.50
14:10:51	08:45	100	29.18	6.27	225.64	0.04	5.94	16.4	43.76
14:15:51	13:45	100	29.19	6.24	219.79	0.07	8.83	16.5	47.82

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity reading at time of sample below 5.0 NTU

Well Casing Volume Conversion

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

Well Information

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

ft-bmp = feet below measuring point	mS/cm = milliSiemens per centimeter	mV = millivolts
in = inches	NTU = Nephelometric Turbidity Unit	°F = degrees Fahrenheit
ft = feet	mg/L = milligrams per liter	°C = degrees Celsius
mL/min = milliliters per minute	µS/cm = microSiemens per centimeters	

Groundwater Sampling Form

Project Number	30053438	Well ID	YGWC-26I	Date	02/10/2021		
Project Location	AP-2	Weather(°F)	It is Clear. The wind is blowing E/SE at 4.7 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)	26.33	Total Depth (ft-bmp)	69.81	Water Column(ft)	43.48	Gallons in Well	7.07
MP Elevation	715.91	Pump Intake (ft-bmp)	65	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:10	Well Volumes Purged	0.24	Sample ID	YGWC-26I	Sampled by	Peter Argyakis
Purge Start	10:27	Gallons Purged	1.72	Replicate/ Code No.	DUP-2	Color	Clear
Purge End	11:08						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:27:46	00:00	150	26.33	6.19	319.75	8.58	9.25	14.9	146.67
10:32:46	05:00	150	26.67	5.88	339.80	0.00	0.55	18.2	19.24
10:37:46	10:00	150	26.74	5.84	337.26	0.00	0.29	18.3	74.50
10:42:46	15:00	150	26.74	5.85	337.29	0.00	0.37	18.5	106.49
10:47:46	20:00	150	26.74	5.84	337.96	0.00	0.44	19.2	126.30
10:52:46	25:00	150	26.74	5.88	338.40	4.30	1.20	19.7	137.25
10:57:46	30:00	150	26.74	5.96	339.60	3.86	1.52	20.3	144.25
11:02:46	35:00	150	26.74	5.94	340.40	3.71	1.65	21.1	147.54
11:07:46	40:00	150	26.74	5.96	342.59	3.49	1.95	21.9	149.37

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings (time:NTU)
 1027: 2.23
 1033: 2.79
 1038: 3.44
 1043: 2.40
 1048: 2.02
 1053: 1.76
 1058: 1.51
 1103: 1.20
 1108: 1.55

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YGWA-14S	Date	02/10/2021		
Project Location	AP-2	Weather(°F)	Cold, dry				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	24.66	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	17.71	Total Depth (ft-bmp)	34.96	Water Column(ft)	17.25	Gallons in Well	2.8
MP Elevation	748.76	Pump Intake (ft-bmp)	30	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	08:50	Well Volumes Purged	0.42	Sample ID	YGWA-14S	Sampled by	Peter Argyakis
Purge Start	08:26	Gallons Purged	1.19	Replicate/ Code No.	DUP-1	Color	Clear
Purge End	08:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:26:07	00:00	250	17.71	6.11	0.08	0.00	10.79	10.8	214.06
08:31:07	05:00	150	18.48	5.26	68.42	0.00	6.32	16.4	232.90
08:36:07	10:00	150	18.5	5.31	67.43	0.00	6.22	16.9	224.32
08:41:07	15:00	150	18.5	5.28	67.62	0.00	6.22	16.9	218.17
08:46:07	20:00	150	18.5	5.35	66.78	0.00	6.22	17.0	217.29

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings (time:NTU)
 0826: 2.61
 0831: 1.97
 0836: 2.46
 0841: 2.35
 0846: 1.66

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30053438 **Well ID** YGWC-27S **Date** 02/10/2021

Project Location AP-2 **Weather(°F)** 68.0 degrees F and Clear. The wind is blowing E/SE at 8.1 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) 30.07 **Total Depth (ft-bmp)** 40.52 **Water Column(ft)** 10.45 **Gallons in Well** 1.7

MP Elevation 716.52 **Pump Intake (ft-bmp)** 35 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 13:15 **Well Volumes Purged** 0.70 **Sample ID** YGWC-27S **Sampled by** Peter Argyakis

Purge Start 12:42 **Gallons Purged** 1.19 **Replicate/ Code No.** **Color** Clear

Purge End 13:12

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)
12:42:00	00:00	150	30.07	6.63	374.13	2.39	8.13	19.8	36.32
12:47:00	05:00	150	30.07	6.40	379.02	0.30	7.06	19.7	22.22
12:52:00	10:00	150	30.07	6.18	364.33	1.01	0.97	20.0	63.36
12:57:00	15:00	150	30.07	6.19	378.99	2.63	0.77	19.8	78.63
13:02:00	20:00	150	30.07	6.18	377.55	16.96	0.68	19.8	87.62
13:07:00	25:00	150	30.07	6.20	377.34	18.05	0.58	19.9	92.63
13:12:00	30:00	150	30.07	6.21	378.47	10.17	0.53	20.1	95.47

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings (time:NTU)
 1242: 3.74
 1247: 3.90
 1252: 2.78
 1257: 2.19
 1302: 2.55
 1307: 2.41
 1312: 2.78

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30052922 **Well ID** YGWA-1D **Date** 02/12/2021

Project Location AP-2 **Weather(°F)** 60.8 degrees F and Fog/Mist. The wind is blowing N/NW at 5.8 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)	48.49	Total Depth (ft-bmp)	128.85	Water Column(ft)	80.36	Gallons in Well	13.06
MP Elevation	837.25	Pump Intake (ft-bmp)	108	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:55	Well Volumes Purged	0.17	Sample ID	YGWA-1D	Sampled by	Becky Steever
Purge Start	11:03	Gallons Purged	2.22	Replicate/ Code No.	NA	Color	Clear

Purge End 11:52

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)
11:03:28	00:00	170	48.64	9.25	182.29	2.92	9.73	14.1	117.37
11:08:28	05:00	170	48.49	7.98	172.12	1.04	2.42	15.4	89.74
11:13:28	10:00	170	48.58	7.58	174.43	2.40	0.47	15.6	54.39
11:18:28	15:00	170	48.67	7.43	162.65	16.36	0.37	15.5	24.60
11:19:57	16:29	170	48.75	7.37	163.34	7.41	0.36	15.5	11.75
11:24:57	21:29	170	48.78	7.25	157.96	2.90	0.44	15.5	-6.04
11:29:57	26:29	170	48.77	7.21	151.71	0.95	0.41	15.5	-17.64
11:34:57	31:29	170	48.78	7.16	149.50	0.34	0.43	15.4	-27.23
11:39:57	36:29	170	48.78	7.16	144.03	0.38	0.63	15.4	-33.59
11:44:57	41:29	170	48.78	7.14	141.18	0.31	0.58	15.5	-35.86
11:49:57	46:29	170	48.78	7.14	139.66	0.33	0.59	15.4	-37.20

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings (time:NTU):
 1103=1.2, 1108=1.63, 1113=1.02, 1118=2.3, 1119=10.3, 1124= 6.4, 1129= 3.2, 1134=1.3, 1139=0.87, 1144=0.55, 1149=0.23

Well Casing Volume Conversion

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

Well Information

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

ft-bmp = feet below measuring point mS/cm = milliSiemens per centimeter mV = millivolts
 in = inches NTU = Nephelometric Turbidity Unit °F = degrees Fahrenheit
 ft = feet mg/L = milligrams per liter °C = degrees Celsius
 mL/min = milliliters per minute µS/cm = microSiemens per centimeters

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWC-28S	Date	02/12/2021		
Project Location	AP-2	Weather(°F)	°, winds at 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)	27.69	Total Depth (ft-bmp)	44.95	Water Column(ft)	17.26	Gallons in Well	2.8
MP Elevation	717.95	Pump Intake (ft-bmp)	40	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:20	Well Volumes Purged	0.59	Sample ID	YGWC-28S	Sampled by	Becky Steever
Purge Start	14:42	Gallons Purged	1.65	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)
14:42:51	00:00	200	28.58	6.36	430.65	29.86	6.26	17.1	49.86
14:47:51	05:00	200	28.58	6.53	468.92	17.24	0.48	17.7	-11.42
14:52:51	10:00	200	28.58	6.55	471.24	12.05	0.38	17.7	-27.26
14:57:51	15:00	200	28.58	6.54	473.86	7.95	0.44	17.8	-38.21
15:02:51	20:00	150	28.58	6.55	474.86	9.06	0.26	17.5	-40.66
15:07:51	25:00	150	28.58	6.67	470.56	3.92	0.98	17.8	-37.65
15:12:51	30:00	150	28.58	6.65	472.41	1.99	0.91	17.4	-38.74
15:17:51	35:00	150	28.58	6.60	470.37	2.31	0.88	17.4	-38.66

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: After 20 minute reading emptied out flow through cell, took turbidity reading with stand alone meter (3.26); and reconnected. Likely particles stuck in flow rough cell causing a higher reading.
 Following readings (time=NTU): 15073.87, 1512=3.01, 1517=3.15

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	Well ID	YGWA-3D	Date	02/10/2021		
Project Location	AP-2	Weather(°F)	71.4 degrees F and Cloudy. The wind is blowing W 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)	29.35	Total Depth (ft-bmp)	134.18	Water Column(ft)	104.83	Gallons in Well	17.03
MP Elevation	796.78	Pump Intake (ft-bmp)	113	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:25	Well Volumes Purged	0.07	Sample ID	YGWA-3D	Sampled by	Becky Steever
Purge Start	17:01	Gallons Purged	1.19	Replicate/ Code No.		Color	Clear
Purge End	17:22						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:01:20	00:00	200	29.48	7.64	211.97	0.40	9.99	16.4	25.63
17:06:20	05:00	200	29.48	7.57	208.55	0.58	0.70	16.8	-93.37
17:11:20	10:00	200	29.48	7.77	208.32	0.22	0.25	16.7	-106.85
17:16:20	15:00	200	29.48	7.82	207.94	0.21	0.23	16.8	-117.00
17:21:20	20:00	200	29.48	7.81	207.63	0.22	0.15	16.7	-121.14

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity reading at time of sampling below 5.0 NTU

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YGWC-28I	Date	02/11/2021		
Project Location	AP-2	Weather(°F)	Rain, cold				
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)	32.4	Total Depth (ft-bmp)	69.93	Water Column(ft)	37.53	Gallons in Well	6.1
MP Elevation	717.93	Pump Intake (ft-bmp)	64	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:40	Well Volumes Purged	0.40	Sample ID	YGWC-28I	Sampled by	Peter Argyakis
Purge Start	09:01	Gallons Purged	2.43	Replicate/ Code No.	MSMSD	Color	Clear
Purge End	09:37						

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)
09:01:21	00:00	250	32.4	7.22	0.22	107.51	10.05	15.1	203.76
09:06:21	05:00	250	32.56	6.85	0.07	104.23	9.49	15.4	194.81
09:11:21	10:00	250	32.62	6.57	423.92	0.00	1.82	17.3	210.12
09:16:21	15:00	250	32.77	6.54	422.20	0.00	0.31	17.4	196.94
09:21:21	20:00	250	32.84	6.55	421.36	0.00	0.28	17.5	191.34
09:26:21	25:00	250	32.9	6.55	422.92	0.00	0.23	17.6	185.08
09:31:21	30:00	250	32.94	6.55	424.41	0.00	0.20	17.4	179.86
09:36:21	35:00	250	32.94	6.57	423.66	0.00	0.23	16.7	181.61

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity reading (time:NTU)
 0901: 2.16
 0906: 2.70
 0911: 2.35
 0916: 1.73
 0921: 2.56
 0926: 2.33
 0931: 2.10
 0936: 1.61

Last depth to water: 32.97

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	Well ID	YGWA-11	Date	02/12/2021		
Project Location	AP-2	Weather(°F)	48.9 degrees F and . The wind is blowing NW 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)	37.88	Total Depth (ft-bmp)	53.6	Water Column(ft)	15.72	Gallons in Well	2.55
MP Elevation	836.6	Pump Intake (ft-bmp)	49	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:20	Well Volumes Purged	0.53	Sample ID	YGWA-11	Sampled by	Becky Steever
Purge Start	12:26	Gallons Purged	1.34	Replicate/ Code No.		Color	Clear
Purge End	07:44						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:26:12	00:00	150	38.88	6.90	68.81	1.00	8.53	14.4	-3.90
12:31:12	05:00	125	40.02	6.86	88.19	1.46	3.02	15.0	-21.28
12:36:12	10:00	130	41.31	6.76	79.14	1.15	1.87	15.0	-24.45
12:44:42	18:30	100	42.28	6.40	57.67	0.11	3.50	15.1	-5.10
12:49:42	23:30	100	42.35	6.27	53.86	0.12	4.27	15.0	8.87
12:54:42	28:30	100	42.33	6.24	53.72	0.17	4.52	15.0	15.13
12:59:42	33:30	100	42.34	6.24	55.39	0.26	4.55	15.0	22.86
13:04:42	38:30	100	42.35	6.19	56.98	0.32	4.55	15.0	25.36
13:09:42	43:30	100	42.35	6.22	58.65	0.54	4.54	14.9	28.94
13:11:37	45:25	100	42.35	6.15	60.53	0.70	4.62	15.0	32.39
13:15:15	49:03	100	42.35	6.21	59.56	0.72	4.69	15.0	33.68

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: Lost communication between 10 and 18 minute reading
LaMotte turbidity reading at time of sampling below 5.0 NTU

Well Casing Volume Conversion

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

Well Information

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number 30052922	Well ID YGWA-3I	Date 02/10/2021
Project Location AP-2	Weather(°F) 71.4 degrees F and Cloudy. The wind is blowing W at 3.4 mph.	
Measuring Pt. Description Top of Inner Casing	Screen Setting (ft-bmp) 48.85	Casing Diameter (in) 2
Static Water Level (ft-bmp) 52.34	Total Depth (ft-bmp) 59.05	Water Column(ft) 6.71
MP Elevation 796.55	Pump Intake (ft-bmp) 54	Purge Method Low-Flow
Sample Time 16:40	Well Volumes Purged 1.96	Sample ID YGWA-3I
Purge Start 16:04	Gallons Purged 2.14	Replicate/ Code No.
Purge End 16:39		Color Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:04:38	00:00	250	52.34	7.49	252.19	0.44	6.27	17.5	185.91
16:09:38	05:00	250	54.48	7.51	259.68	0.13	2.86	17.2	28.89
16:14:38	10:00	230	54.62	7.49	239.27	0.08	1.52	17.2	-37.90
16:19:38	15:00	200	54.92	7.50	217.20	0.11	0.73	17.0	-61.08
16:24:38	20:00	200	54.95	7.55	201.91	0.15	0.55	17.2	-81.07
16:29:38	25:00	200	54.95	7.57	187.43	0.12	0.33	17.2	-92.72
16:34:38	30:00	200	54.92	7.59	183.94	0.12	0.30	17.0	-98.58
16:39:38	35:00	200	54.93	7.58	182.29	0.18	0.29	16.9	-99.61

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity reading (time=NTU)
 1604=0.78, 1609=0.32, 1614=0.28, 1619=0.22, 1624=0.25, 1629= 0.19, 1634=0.11, 1639= 0.15

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YGWC-27I	Date	02/10/2021		
Project Location	AP-2	Weather(°F)	Sunny, dry				
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)	31	Total Depth (ft-bmp)	79.99	Water Column(ft)	48.99	Gallons in Well	7.96
MP Elevation	716.19	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:20	Well Volumes Purged	0.12	Sample ID	YGWC-27I	Sampled by	Peter Argyakis
Purge Start	11:57	Gallons Purged	0.92	Replicate/ Code No.		Color	Clear
Purge End	12:17						

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)
11:57:31	00:00	150	31	6.39	341.69	0.00	3.94	18.6	8.55
12:02:31	05:00	150	31	6.33	366.59	0.87	1.04	18.6	-11.42
12:07:31	10:00	150	31	6.32	366.78	0.00	0.58	19.1	-25.17
12:12:31	15:00	150	31	6.30	363.82	0.00	0.46	19.5	-29.24
12:17:31	20:00	150	31	6.29	360.06	0.00	0.41	19.5	-33.92

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings (time:NTU)
 1157: 4.52
 1202: 3.69
 1207: 3.14
 1212: 2.80
 1217: 2.44

Well Casing Volume Conversion

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

Well Information

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


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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

March 2021 Event

2021 Semiannual Groundwater and Corrective Action Report
Plant Yates AP-3, A, B, B' and R6 CCR Landfill
Newnan, GA



March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/01/21 Time: 11:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	235.4	235.4	235.4	235.4	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	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 used that day

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/02/21 Time: 10:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	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 used that day

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/03/21 Time: 07:45

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

Date: 3/03/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	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 used that day

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/04/21 Time: 08:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

Date: 3/04/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

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 used that day

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-2I	Date	03/03/2021		
Project Location	AP-2	Weather(°F)	46.4 degrees F and Clear. The wind is blowing N at 10.3 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)	44.45	Total Depth (ft-bmp)	63.75	Water Column(ft)	19.3	Gallons in Well	3.14
MP Elevation	866.25	Pump Intake (ft-bmp)	60	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:45	Well Volumes Purged	0.44	Sample ID	YGWA-2I	Sampled by	Becky Steever
Purge Start	09:45	Gallons Purged	1.39	Replicate/ Code No.		Color	Clear
Purge End	11:41						

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)
09:45:05	00:00	50	47.98	8.57	220.70	0.92	1.91	14.0	-54.63
09:50:05	05:00	50	49.25	8.18	215.99	0.24	1.52	13.9	-41.25
09:55:05	10:00	50	49.98	8.22	213.69	2.02	1.19	14.1	-38.95
10:00:05	15:00	50	50.55	7.93	214.06	3.16	1.16	14.0	-20.93
10:05:05	20:00	45	51.1	7.94	213.75	3.06	1.17	13.9	-19.06
10:10:05	25:00	45	51.72	7.92	213.56	3.73	1.22	13.9	-17.89
10:15:05	30:00	45	52.28	7.90	213.59	3.51	1.36	14.0	-12.20
10:20:05	35:00	45	52.89	8.03	212.34	3.71	1.42	14.3	-17.22
10:25:05	40:00	45	53.56	8.05	211.94	3.83	1.54	14.5	-17.13
10:30:05	45:00	45	54.19	8.00	211.59	4.08	1.66	14.7	-14.23
10:35:05	50:00	45	54.63	7.98	211.63	4.34	1.80	14.8	-10.85
10:40:05	55:00	45	54.81	7.97	211.91	5.08	2.00	14.8	-8.63
10:45:05	00:00	45	55.02	7.95	212.20	5.58	2.07	15.2	-5.68
10:50:05	05:00	45	55.28	8.10	210.73	0.01	2.33	15.7	-12.02
10:55:05	10:00	45	55.44	8.01	210.07	1.21	2.22	16.0	-5.06
11:00:05	15:00	45	55.65	7.92	211.30	1.63	2.38	15.9	3.27
11:05:05	20:00	45	55.83	7.98	214.55	0.60	2.36	16.1	-2.80
11:10:05	25:00	45	56.09	7.84	218.12	0.20	2.30	16.1	-0.47
11:15:05	30:00	45	56.29	7.82	219.25	0.00	2.28	16.0	-0.96
11:20:05	35:00	45	56.49	7.85	218.60	0.00	2.06	16.1	-4.21
11:25:05	40:00	45	56.64	7.91	218.64	0.00	1.93	16.4	-7.58
11:30:05	45:00	45	56.89	7.99	219.41	0.00	1.74	16.8	-11.49
11:35:05	50:00	45	57.01	7.93	219.59	0.00	1.64	17.1	-20.04
11:40:05	55:00	45	57.19	7.92	219.70	0.00	1.50	17.6	-36.44

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Constituent Sampled	Container	Number	Preservative
TDS	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	500 mL Plastic	2	HNO3

Comments: La motte stand alone confirmation turbidity readings.
 @ 15:00: 4.58
 @ 20:00: 2.23
 @ 25:00: 2.06
 @ 30:00: 1.07
 @ 35:00: 1.68
 @ 40:00: 1.26
 @ 45:00: 1.51
 @ 50:00: 1.81
 @ 55:00: 1.73
 @ 60:00: 1.64
 @ 65:00: 1.06
 @ 70:00: 0.92
 @ 75:00: 0.67
 @ 80:00: 0.7
 @ 85:00: 0.65

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	Well ID	YGWC-26I	Date	03/03/2021		
Project Location	AP-2	Weather(°F)	44.1 degrees F and Mostly Cloudy. The wind is blowing N at 8.1 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)	25.54	Total Depth (ft-bmp)	69.81	Water Column(ft)	44.27	Gallons in Well	7.19
MP Elevation	715.91	Pump Intake (ft-bmp)	61	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:15	Well Volumes Purged	0.15	Sample ID	YGWC-26I	Sampled by	Katie Pupkiewicz
Purge Start	08:52	Gallons Purged	1.08	Replicate/ Code No.	DUP-02	Color	Clear
Purge End	09:14						

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)
08:52:12	00:00	180	25.81	6.46	329.07	0.00	7.24	13.2	55.01
08:57:12	05:00	180	25.87	6.07	319.43	0.00	2.55	15.8	23.04
09:02:12	10:00	180	25.85	5.97	309.42	0.00	1.65	16.1	96.96
09:07:12	15:00	180	25.89	5.94	310.47	0.00	1.43	16.4	145.93
09:12:12	20:00	180	25.9	5.93	323.42	0.00	1.25	16.2	168.63

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 1.19
 1.69
 0.94
 1.14
 1.25

Well Casing Volume Conversion

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

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	Well ID	YGWA-14S	Date	03/02/2021		
Project Location	AP-2	Weather(°F)					
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	24.66	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.71	Total Depth (ft-bmp)	34.96	Water Column(ft)	18.25	Gallons in Well	2.97
MP Elevation	748.76	Pump Intake (ft-bmp)	30	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:20	Well Volumes Purged	0.36	Sample ID	YGWA-14S	Sampled by	Katie Pupkiewicz
Purge Start	10:46	Gallons Purged	1.06	Replicate/ Code No.	DUP-01	Color	Clear
Purge End	11:17						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:56:14	00:00	100	17.23	5.58	1220.33	0.00	1.47	15.0	-73.80
11:01:14	05:00	100	17.18	5.50	1229.41	0.00	1.37	15.6	-61.17
11:06:14	10:00	100	17.17	5.49	1233.85	0.00	1.44	15.6	-43.77
11:11:14	15:00	100	17.19	5.47	1231.60	0.00	1.44	15.5	-32.65
11:16:14	20:00	100	17.17	5.49	1229.86	0.00	1.44	15.6	-26.94

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 0.73
 0.61
 0.70
 0.73
 0.61

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number 30053437 **Well ID** YGWC-28I **Date** 03/03/2021

Project Location AP-2 **Weather(°F)** 59.0 degrees F and Clear. The wind is blowing N at 10.3 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 59.63 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 29.41 **Total Depth (ft-bmp)** 69.93 **Water Column(ft)** 40.52 **Gallons in Well** 6.58

MP Elevation 717.93 **Pump Intake (ft-bmp)** 64 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 13:40 **Well Volumes Purged** 0.19 **Sample ID** YGWC-28I **Sampled by** Katie Pupkiewicz

Purge Start 13:08 **Gallons Purged** 1.27 **Replicate/ Code No.** **Color** Clear

Purge End 13:37

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)
13:08:35	00:00	180	30.13	7.09	497.67	0.09	7.91	19.4	201.18
13:13:35	05:00	180	30.67	6.54	478.35	0.10	3.35	20.3	188.95
13:18:35	10:00	140	30.93	6.48	473.68	0.10	1.14	20.6	178.65
13:21:15	12:40	140	30.93	6.61	469.01	0.04	4.70	19.5	198.83
13:26:15	17:40	140	30.89	6.49	459.43	0.05	3.14	19.4	168.32
13:31:15	22:40	140	30.86	6.50	462.02	0.10	1.81	19.5	147.82
13:36:15	27:40	140	30.89	6.51	461.25	0.22	0.95	19.4	134.69

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 1.30
 0.65
 0.68
 0.57
 0.42

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	Well ID	YGWC-28S	Date	03/03/2021		
Project Location	AP-2	Weather(°F)	53.6 degrees F and Clear. The wind is blowing N at 9.2 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)	27.95	Total Depth (ft-bmp)	44.95	Water Column(ft)	17	Gallons in Well	2.76
MP Elevation	717.95	Pump Intake (ft-bmp)	40	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:55	Well Volumes Purged	0.28	Sample ID	YGWC-28S	Sampled by	Katie Pupkiewicz
Purge Start	11:32	Gallons Purged	0.77	Replicate/ Code No.		Color	Clear
Purge End	11:49						

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)
11:32:25	00:00	160	28.35	6.59	420.74	15.45	5.40	18.1	-18.25
11:37:25	05:00	160	28.35	6.57	452.43	1.50	2.42	18.7	-45.78
11:42:25	10:00	160	28.35	6.57	464.65	1.06	2.44	18.9	-55.28
11:47:25	15:00	160	28.35	6.61	470.20	0.32	1.05	19.0	-62.22

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 5.64
 4.14
 2.16
 1.48

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30052922	Well ID YGWA-1D	Date 03/03/2021
Project Location AP-2	Weather(°F) 62.4 degrees F and Clear. The wind is blowing NW at 6.9 mph.	
Measuring Pt. Description Top of Inner Casing	Screen Setting (ft-bmp) 78.05	Casing Diameter (in) 2
Static Water Level (ft-bmp) 47.83	Total Depth (ft-bmp) 128.85	Water Column(ft) 81.02
MP Elevation 837.25	Pump Intake (ft-bmp) 108	Purge Method Low-Flow
Sample Time 14:25	Well Volumes Purged 0.06	Sample ID YGWA-1D
Purge Start 14:03	Gallons Purged 0.79	Replicate/ Code No.
Purge End 14:24		Color Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:03:49	00:00	150	47.9	7.01	126.75	0.00	9.30	15.5	102.99
14:08:49	05:00	150	47.92	7.03	134.23	0.00	5.52	16.4	-12.08
14:13:49	10:00	150	47.96	7.17	156.30	0.00	3.20	16.3	-32.10
14:18:49	15:00	150	47.99	7.12	154.82	0.00	1.95	16.4	-25.57
14:23:49	20:00	150	48.01	7.20	153.08	0.00	1.35	16.5	-21.69

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

Comments: La motte turbidity readings
 1403=0.22, 1408= 0.19, 1413=0.19, 1418=0.18, 1423=0.11

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30052922 **Well ID** YGWA-11 **Date** 03/03/2021

Project Location AP-2 **Weather(°F)** 59.0 degrees F and Clear. The wind is blowing N at 10.3 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 43.3 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 37.19 **Total Depth (ft-bmp)** 53.6 **Water Column(ft)** 16.41 **Gallons in Well** 2.67

MP Elevation 836.6 **Pump Intake (ft-bmp)** 49 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 12:13 **Well Volumes Purged** 1.02 **Sample ID** YGWA-1A **Sampled by** Becky Steever

Purge Start 12:35 **Gallons Purged** 2.73 **Replicate/ Code No.** **Color** Clear

Purge End 13:31

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)
12:35:36	00:00	200	38.75	7.48	84.79	0.00	6.96	17.5	-1.92
12:40:36	05:00	200	40.92	7.07	75.47	0.00	1.79	17.3	1.52
12:45:36	10:00	190	41.5	6.64	59.12	0.00	3.30	16.7	36.68
12:50:36	15:00	190	41.78	6.34	56.25	0.00	3.49	16.5	61.44
12:55:36	20:00	190	41.98	6.12	53.98	0.00	4.32	16.4	80.16
13:00:36	25:00	190	42.11	5.92	54.10	0.00	4.92	16.1	94.37
13:05:36	30:00	190	42.28	5.76	54.63	0.00	4.95	15.9	107.56
13:10:36	35:00	190	42.37	5.65	55.25	0.00	4.87	15.7	117.23
13:15:36	40:00	190	42.55	5.57	55.86	0.00	4.79	15.6	123.49
13:20:36	45:00	190	42.68	5.42	56.14	0.00	4.67	15.5	130.89
13:25:36	50:00	150	42.7	5.39	56.27	0.00	4.61	15.5	133.42
13:30:36	55:00	150	42.65	5.38	56.02	0.00	4.66	15.5	135.16

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

Comments: LaMotte turbidity readings (time=NTU)
1310=0.31, 1315=0.22, 1320=0.19, 1325=0.16, 1330=0.10

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

Well Information
Well Location: _____ Well Locked at Arrival: _____

ft-bmp = feet below measuring point mS/cm = milliSiemens per centimeter mV = millivolts
in = inches NTU = Nephelometric Turbidity Unit °F = degrees Fahrenheit
ft = feet mg/L = milligrams per liter °C = degrees Celsius
mL/min = milliliters per minute µS/cm = microSiemens per centimeters

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-3D	Date	03/03/2021		
Project Location	AP-2	Weather(°F)	65.7 degrees F and Clear. The wind is blowing N at 12.8 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)	29.28	Total Depth (ft-bmp)	134.18	Water Column(ft)	104.9	Gallons in Well	17.05
MP Elevation	796.78	Pump Intake (ft-bmp)	113	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:00	Well Volumes Purged	0.05	Sample ID	YGWA-3D	Sampled by	Becky Steever
Purge Start	15:38	Gallons Purged	0.79	Replicate/ Code No.		Color	Clear
Purge End	16:58						

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)
15:38:19	00:00	200	29.28	8.25	228.79	0.00	8.63	16.7	-63.41
15:43:19	05:00	200	29.28	8.32	226.31	0.00	2.34	16.5	-117.08
15:48:19	10:00	200	29.28	8.42	226.72	0.00	0.85	16.4	-104.03
15:53:19	15:00	200	29.28	8.39	226.67	0.00	0.59	16.3	-94.87

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

Comments: Compressor is struggling with depth and holding pressure. Has not previously been an issue. Flowed at 100 ml/m because of this.

LaMotte turbidity readings (time:NTU)
 1538:0.16
 1543: 0.11
 1548:, 0.15
 1553: 0.16

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30053437	Well ID	YGWA-30I	Date	03/01/2021		
Project Location	AP-2	Weather(°F)	63.1 degrees F and Cloudy. The wind is blowing NW at 5.8 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)	43.88	Total Depth (ft-bmp)	59.48	Water Column(ft)	15.6	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	16:25	Well Volumes Purged	0.68	Sample ID	YGWA-30I	Sampled by	Katie Pupkiewicz
Purge Start	15:51	Gallons Purged	1.72	Replicate/ Code No.		Color	Clear
Purge End	16:23						

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)
15:51:20	00:00	200	43.89	6.57	56.00	0.00	8.86	17.0	208.83
15:56:20	05:00	200	43.89	6.14	27.71	0.06	8.09	17.2	193.78
16:01:20	10:00	200	43.91	6.28	48.39	0.00	7.70	17.0	189.09
16:06:20	15:00	200	43.9	5.84	48.75	0.00	7.43	17.1	202.04
16:11:20	20:00	200	43.9	5.76	47.92	0.00	7.34	17.1	208.39
16:16:20	25:00	200	43.91	5.73	47.75	0.00	7.38	17.0	207.81
16:21:20	30:00	200	43.91	5.78	47.97	8.12	7.26	17.0	205.08

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 0.00
 Turbidity meter ran out of batteries, will replace tomorrow
 0.12 taken at the 25 minute mark
 0.55

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30053437	Well ID	YGWC-26S	Date	03/02/2021		
Project Location	AP-2	Weather(°F)	45.5 degrees F and Light Rain. The wind is blowing E at 5.8 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)	24.73	Total Depth (ft-bmp)	40.18	Water Column(ft)	15.45	Gallons in Well	2.51
MP Elevation	716.28	Pump Intake (ft-bmp)	37	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:00	Well Volumes Purged	0.32	Sample ID	YGWC-26I	Sampled by	Katie Pupkiewicz
Purge Start	13:34	Gallons Purged	0.79	Replicate/ Code No.		Color	Clear
Purge End	13:55						

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)
13:34:02	00:00	200	25.7	6.45	357.31	164.92	7.62	15.6	83.80
13:39:02	05:00	100	26.45	5.37	346.24	0.00	2.29	17.4	152.54
13:44:02	10:00	100	26.27	5.37	341.88	0.00	1.79	16.7	193.41
13:49:02	15:00	100	26.24	5.38	343.93	0.00	0.75	16.6	202.53
13:54:02	20:00	100	26.22	5.38	345.14	0.00	0.71	16.6	204.01

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 1.37
 2.04
 1.08
 0.99
 0.90

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	Well ID	YGWC-27S	Date	03/03/2021		
Project Location	AP-2	Weather(°F)	63.3 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)	29.6	Total Depth (ft-bmp)	40.52	Water Column(ft)	10.92	Gallons in Well	1.77
MP Elevation	716.52	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:40	Well Volumes Purged	0.40	Sample ID	YGWC-27S	Sampled by	Katie Pupkiewicz
Purge Start	14:19	Gallons Purged	0.72	Replicate/ Code No.		Color	Clear
Purge End	14:38						

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)
14:19:39	00:00	120	29.63	6.50	420.33	11.95	5.80	19.1	73.16
14:24:39	05:00	120	29.69	6.41	421.19	1.06	2.42	19.9	133.08
14:28:04	08:25	120	29.68	6.38	423.88	2.68	1.86	19.9	211.54
14:33:04	13:25	120	29.69	6.36	430.38	2.13	1.19	19.8	175.45
14:38:04	18:25	120	29.69	6.35	433.98	0.48	0.75	19.9	161.75

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 3.86
 2.99
 4.06
 2.97
 1.69

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	Well ID	YGWC-271	Date	03/03/2021		
Project Location	AP-2	Weather(°F)	64.8 degrees F and Clear. The wind is blowing NW at 8.1 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.69	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	29.59	Total Depth (ft-bmp)	79.99	Water Column(ft)	50.4	Gallons in Well	8.19
MP Elevation	716.19	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:40	Well Volumes Purged	0.15	Sample ID	YGWC-271	Sampled by	Katie Pupkiewicz
Purge Start	15:08	Gallons Purged	1.19	Replicate/ Code No.		Color	Clear
Purge End	15:38						

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)
15:08:24	00:00	200	30.2	6.68	398.50	0.38	4.95	21.6	18.55
15:13:24	05:00	140	30.5	6.48	420.18	0.15	1.47	19.8	-20.86
15:18:24	10:00	140	30.4	6.44	415.79	0.16	1.38	20.4	-11.19
15:23:24	15:00	140	30.45	6.40	337.69	0.13	1.12	19.8	-6.74
15:28:24	20:00	140	30.44	6.41	411.14	0.19	1.24	20.7	-8.07
15:33:24	25:00	140	30.48	6.43	408.88	0.27	1.18	20.7	-7.34
15:38:24	30:00	140	30.48	6.43	406.77	0.22	0.96	20.5	-4.80

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

Comments: LaMotte turbidity meter died at the beginning of purging. The three readings taken five, ten, and fifteen minutes before sampling are as follows:
 0.62
 0.43
 0.79

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number 30053437	Well ID YGWC-29I	Date 03/03/2021
Project Location AP-2	Weather(°F) 50.0 degrees F and Clear. The wind is blowing N at 10.3 mph.	
Measuring Pt. Description Top of Inner Casing	Screen Setting (ft-bmp) 29.29	Casing Diameter (in) 2
Static Water Level (ft-bmp) 27.85	Total Depth (ft-bmp) 39.59	Water Column(ft) 11.74
MP Elevation 717.39	Pump Intake (ft-bmp) 35	Purge Method Low-Flow
Sample Time 10:45	Well Volumes Purged 0.44	Sample ID YGWC-29I
Purge Start 10:23	Gallons Purged 0.85	Replicate/ Code No.
Purge End 10:39		Color Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:23:17	00:00	180	28.96	6.72	218.63	0.00	4.89	17.0	81.99
10:28:17	05:00	180	29.11	6.30	220.23	0.00	2.27	17.4	125.52
10:33:17	10:00	180	29.16	6.26	219.90	0.00	1.65	17.5	148.74
10:38:17	15:00	180	29.1	6.27	211.87	0.00	1.44	18.2	153.99

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 1.35
 0.68
 0.79
 0.74

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30052922 **Well ID** YGWA-3I **Date** 03/03/2021

Project Location AP-2 **Weather(°F)** 66.2 degrees F and Clear. The wind is blowing NW at 11.4 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)	52.33	Total Depth (ft-bmp)	59.05	Water Column(ft)	6.72	Gallons in Well	1.09
MP Elevation	796.55	Pump Intake (ft-bmp)	54	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:00	Well Volumes Purged	1.27	Sample ID	YGWA-3I	Sampled by	Becky Steever
Purge Start	16:28	Gallons Purged	1.39	Replicate/ Code No.	NA	Color	Clear

Purge End 16:58

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:28:09	00:00	250	53.13	8.14	206.85	0.00	7.51	15.6	-29.52
16:33:09	05:00	200	53.82	8.09	223.89	0.00	3.52	15.8	-34.40
16:38:09	10:00	200	53.73	8.07	221.76	0.00	3.34	15.7	-40.21
16:43:09	15:00	200	53.74	8.11	207.23	0.00	1.54	15.7	-50.88
16:48:09	20:00	200	53.74	8.13	200.41	0.00	0.81	15.7	-61.82
16:53:09	25:00	200	53.75	8.13	197.61	0.00	0.67	15.7	-66.37

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

Comments: La motte turbidity readings (time:NTU):
 1628=0.18, 1633=0.09, 1638=0.12, 1643=0.10, 1648=0.08, 1653=0.09

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

Well Information

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

ft-bmp = feet below measuring point mS/cm = milliSiemens per centimeter mV = millivolts
 in = inches NTU = Nephelometric Turbidity Unit °F = degrees Fahrenheit
 ft = feet mg/L = milligrams per liter °C = degrees Celsius
 mL/min = milliliters per minute µS/cm = microSiemens per centimeters

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-2I			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		09:16:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-1D			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		09:39:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-1S			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		09:42:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-11			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		09:45:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-13S			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		09:50:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-13I			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		09:58:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
	Sediment is starting to build up on portion of pad. Will need to shovel/clean off.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-3S			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		10:02:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-3D			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		10:18:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-14S					
Person Gauging: Becky Steever					
Date: 2/8/2021					
Time: 10:25:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
Well pad is deeply buried under sediment. Appears to be in sediment flow are.					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-14I			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		10:42:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
	Well is deeply buried under sediment. Appears to be in the path of sediment flow				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-31S			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		10:48:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-3I					
Person Gauging: Becky Steever					
Date: 2/8/2021					
Time: 10:15:00					
1	Location Identification:				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-30I			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		10:52:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-25I			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		11:03:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-25S			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		11:22:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-26S			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		12:00:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-26I			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		12:04:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-271					
Person Gauging: Becky Steever					
Date: 2/8/2021					
Time: 12:11:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-27S			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		12:19:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-28I					
Person Gauging: Becky Steever					
Date: 2/8/2021					
Time: 12:30:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-28S			
Person Gauging:		Becky Steever			
Date:		2/8/2021			
Time:		12:32:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-29I					
Person Gauging: Becky Steever					
Date: 2/8/2021					
Time: 12:47:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-14S			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		12:04:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-14I			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		12:08:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-30I			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		12:20:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-13S			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		13:52:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-13I			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		13:56:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-31S			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		12:13:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: PZ-1S					
Person Gauging: Katie Pupkiewicz					
Date: 3/1/2021					
Time: 13:46:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: PZ-3S					
Person Gauging: Katie Pupkiewicz					
Date: 3/1/2021					
Time: 12:35:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: PZ-25S					
Person Gauging: Katie Pupkiewicz					
Date: 3/1/2021					
Time: 14:10:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-25I			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		14:12:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-2I					
Person Gauging: Katie Pupkiewicz					
Date: 3/1/2021					
Time: 13:39:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-3I			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		12:39:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-3D			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		12:42:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-29I					
Person Gauging: Katie Pupkiewicz					
Date: 3/1/2021					
Time: 14:24:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-28S			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		14:54:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-28I			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		14:55:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-27S			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		15:01:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-271			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		15:03:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-26I			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		15:11:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-26S			
Person Gauging:		Katie Pupkiewicz			
Date:		3/1/2021			
Time:		15:10:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-11					
Person Gauging: Katie Pupkiewicz					
Date: 3/1/2021					
Time: 13:42:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-1D					
Person Gauging: Katie Pupkiewicz					
Date: 3/1/2021					
Time: 13:48:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

APPENDIX B

Analytical Lab and Data Validation Reports (February and March 2021)



February 2021



Georgia Power Co. – Plant Yates

DATA REVIEW

Metals, Radium, and General Chemistry Analyses

SDGs # 92521567, 92521568, 92521578 and 92521581

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina


Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #41024R

Review Level: Tier II

Project: 30052923.00004



DATA REVIEW REPORT

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # 92521567, 92521568, 92521578 and 92521581 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:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92521567 92521578	YGWC-26S	92521567-4 92521578-4	Water	02/10/21		X	X	X
	YGWC-26I	92521567-5 92521578-5	Water	02/10/21		X	X	X
	YGWC-27S	92521567-6 92521578-6	Water	02/10/21		X	X	X
	YGWC-27I	92521567-7 92521578-7	Water	02/10/21		X	X	X
	DUP-2	92521567-8 92521578-8	Water	02/10/21	YGWC-26I	X	X	X
	YGWC-28I	92521567-9 92521578-9	Water	02/11/21		X	X	X
	YGWC-28S	92521567-12 92521578-12	Water	02/12/21		X	X	X
	YGWC-29I	92521567-13 92521578-13	Water	02/12/21		X	X	X
	EB-02	92521567-14 92521578-14	Water	02/12/21		X	X	X
92521568 92521581	YGWA-5D	92521568-1 92521581-1	Water	02/08/21		X	X	X
	DUP-01	92521568-2 92521581-2	Water	02/08/21	YGWA-5D	X	X	X
	YGWA-5I	92521568-3 92521581-3	Water	02/08/21		X	X	X
	YGWA-39	92521568-4 92521581-4	Water	02/10/21		X	X	X
	YGWA-40	92521568-5 92521581-5	Water	02/10/21		X	X	X

DATA REVIEW REPORT

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92521568 92521581	FB-01	92521568-6 92521581-6	Water	02/10/21		X	X	X
	YGWA-20S	92521568-7 92521581-7	Water	02/09/21		X	X	X
	YGWA-4I	92521568-8 92521581-8	Water	02/09/21		X	X	X
	YGWA-17S	92521568-9 92521581-9	Water	02/09/21		X	X	X
	YGWA-18S	92521568-10 92521581-10	Water	02/09/21		X	X	X
	YGWA-18I	92521568-11 92521581-11	Water	02/09/21		X	X	X
	YGWA-21I	92521568-12 92521581-12	Water	02/09/21		X	X	X
	YGWA-3I	92521568-13 92521581-13	Water	02/10/21		X	X	X
	YGWA-3D	92521568-14 92521581-14	Water	02/10/21		X	X	X
	YGWA-30I	92521568-15 92521581-15	Water	02/11/21		X	X	X
	FB-01 (021121)	92521568-16 92521581-16	Water	02/11/21		X	X	X
	EB-01 (021121)	92521568-17 92521581-17	Water	02/11/21		X	X	X
	EB-02 (021021)	92521568-1 92521578-1	Water	02/10/21		X	X	X
	DUP-1	92521567-3 92521578-3	Water	02/10/21	YGWA-14S	X	X	X
	YGWA-14S	92521578-2 92521581-2	Water	02/10/21		X	X	X
	YGWA-1I	92521578-10 92521581-10	Water	02/12/21		X	X	X
	YGWA-1D	92521578-11 92521581-11	Water	02/12/21		X	X	X
	YGWA-2I	92521572-02 92521583-02	Water	02/10/21		X	X	X

Notes:

1. Metals were performed by Pace Analytical Services – Peachtree Corners, Georgia.

DATA REVIEW REPORT

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2. Anions (fluoride) 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.

DATA REVIEW REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of 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 (COC) 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

DATA REVIEW REPORT

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 9315, and 9320; Standard Method (SM) SM4500-H+ B 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 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 reported sample detection 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.

DATA REVIEW REPORT

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 associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. 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-30I	Lead (FB)	Detected sample results <RL and <BAL	"UB" at the RL
YGWA-20S YGWA-21I	Antimony (MB)	Detected sample results <RL and <BAL	"UB" at the RL

Note:

EB = Equipment blank

RL = Reporting limit

MB = Method Blank

DATA REVIEW REPORT

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 performed on samples YGWA-40, YGWC-28I and YGWA-1D exhibited recoveries and RPDs 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 RPD.

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-26I / DUP-2	Barium	0.060	0.062	3.3%
	Chromium	0.00065 J	0.00068 J	AC
	Lead	0.000051 J	0.000049 J	AC
	Lithium	0.0067 J	0.0073 J	AC
	Selenium	0.0026 J	0.0024 J	AC
YGWA-5D / DUP-01	Barium	0.0079 J	0.020	AC
	Lead	0.00013 J	0.0050 U	AC
	Lithium	0.0063 J	0.0031 J	AC
	Molybdenum	0.0011 J	0.010 U	AC

DATA REVIEW REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWA-14S / DUP-1	Barium	0.0078 J	0.0078 J	AC
	Beryllium	0.00019 J	0.000019 J	AC
	Lead	0.000048 J	0.0050 U	AC

Note:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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 REVIEW REPORT

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	
Field/Lab Duplicate (RPD)		X		X	
Reporting Limit Verification		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

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
Fluoride 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 performed on samples YGWA-40, YGWC-28I and YGWA-1D for the fluoride analysis exhibited recoveries and RPDs 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

DATA REVIEW REPORT

sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

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

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWC-26I / DUP-2	Fluoride	0.050 J	0.10 U	AC
YGWA-5D / DUP-01	Fluoride	0.055 J	0.10 U	AC
YGWA-14S / DUP-1	Fluoride	0.10 U	0.10 U	AC

Notes:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: SM4500-H+ B and 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 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	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

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 reporting limit (RL) of 1 pCi/L.

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

DATA REVIEW REPORT

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

* = 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.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(c) = the squares of the respective standard uncertainties of these values.

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

The MS/MSD performed on sample YGWC-28I exhibited recoveries and RPDs within the control limits.

The MS/MSD performed on samples YGWC-28I and YGWA-1D exhibited recoveries and RPDs within the control limits.

DATA REVIEW REPORT

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.

A laboratory duplicate was not included in the data package.

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:

For all analyses in soil matrices, 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 analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

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

DATA REVIEW REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWC-26I / DUP-2	Radium-226	0.240 +/- 0.141	0.209 +/- 0.140	AC
	Radium-228	0.273 +/- 0.374	0.0571 +/- 0.352	
	Total Radium	0.513 +/- 0.515	0.209 +/- 0.492	
YGWA-5D / DUP-01	Radium-226	2.30 +/- 0.514	0.171 +/- 0.133	AC
	Radium-228	0.591 +/- 0.501	0.0142 +/- 0.351	
	Total Radium	2.89 +/- 1.02	0.185 +/- 0.484	
YGWA-14S / DUP-1	Radium-226	0.173 +/- 0.123	0.0865 +/- 0.0955	AC
	Radium-228	0.180 +/- 0.339	0.528 +/- 0.390	
	Total Radium	0.353 +/- 0.462	0.615 +/- 0.486	

Notes:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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.

DATA REVIEW REPORT

$u^2(c)$ = 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-26S – Radium 226, Radium 228 and Total Radium
- YGWC-26I – Radium-228 and Total Radium
- YGWC-27S – Radium 226, Radium 228 and Total Radium
- DUP-2 – Radium 226, Radium 228 and Total Radium
- YGWC-28I - Radium 226
- YGWC-28S – Radium 228 and Total Radium
- YGWC-29I – Radium 228
- EB-02 (021221) - Radium 226, Radium 228 and Total Radium
- YGWA-5D – Radium 228
- DUP-01 – Radium 226, Radium 228 and Total Radium
- YGWA-5I – Radium 228 and Total Radium
- YGWA-39 - Radium 228 and Total Radium
- YGWA-40 - Radium 228 and Total Radium
- FB-01 - Radium 226, Radium 228 and Total Radium
- YGWA-20S - Radium 226, Radium 228 and Total Radium
- YGWA-4 - Radium 228 and Total Radium
- YGWA-17S - Radium 226, Radium 228 and Total Radium
- YGWA-18S - Radium 226, Radium 228 and Total Radium
- YGWA-18I - Radium 226, Radium 228 and Total Radium
- YGWA-21I – Radium 228
- YGWA-30I - Radium 226, Radium 228 and Total Radium
- FB-01 - Radium 226, Radium 228 and Total Radium

DATA REVIEW REPORT

- EB-01 - Radium 226, Radium 228 and Total Radium
- EB-02 - Radium 226, Radium 228 and Total Radium
- DUP-1 - Radium 226, Radium 228 and Total Radium
- YGWA-14S - Radium 226, Radium 228 and Total Radium
- YGWA-11 - Radium 228 and Total Radium
- YGWA-1D - Radium 228 and Total Radium
- YGWA-2I - 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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR RADIOLOGICALS

RADIOLOGICALS: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Gas-Flow Proportional System					
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)		X		X	
Laboratory Control Sample Duplicate (LCSD)		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	
Field/Lab Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE:



DATE: May 13, 2021

PEER REVIEW: Jennifer Singer

DATE: May 18, 2021

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.

Sheet A

Client Information:

Company: Georgia Power
 Address: 1070 Bridge Hill Ave
 City: Marietta, GA 30014
 Phone: (770) 394-6326
 Fax: [Blank]
 Project Name: Yates AP-2
 Project #: [Blank]

Requested Project Information:

Report To: Becky Stever
 Copy To: [Blank]
 Purchase Order #: [Blank]
 Project Name: Yates AP-2
 Project #: [Blank]

Section C

Invoice Information:

Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Price Quote: [Blank]
 Price Project Manager: Kevin Herring@pasanaly.com
 Price Profile #: 10840

CBC 2

SAMPLE ID
 One character per box.
 (A-Z, 0-9, /, -)
 Sample IDs must be unique

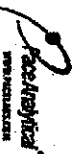
MATRIX
 Drinking Water
 Wastewater
 Surface Water
 Ground Water
 Air
 Sediment
 Sludge
 Other

COODED
 DWD
 WWT
 SWW
 GWW
 A
 S
 O
 W
 S

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (Y/N)	PH
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
1	YGWA-11	WT	G-GRAB C-COMP	02/14/14	11:30	4	4	X	X	X	X	X	X	X	X	X	9.2521561
2	YGWA-12	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	-
3	YGWA-13	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	-
4	YGWA-14	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	-
5	YGWA-15	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	PH: 5.35
6	YGWA-16	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	PH: 5.18
7	YGWA-17	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	PH: 5.18
8	YGWA-18	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	PH: 5.18
9	YGWA-19	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	PH: 5.18
10	YGWA-20	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	PH: 5.18
11	YGWA-21	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	PH: 5.18
12	YGWA-22	WT	G-GRAB C-COMP	02/14/14	08:30	4	4	X	X	X	X	X	X	X	X	X	PH: 5.18

REQUISITED BY / ANALYST	DATE	TIME	ACCEPTED BY / RELATION	DATE	TIME	SAMPLE CONDITIONS
[Signature]	02/10/2014	11:00	[Signature]	02/10/2014	11:00	Received on ice Custody Sealed Cooler Samples Intact

SAMPLER NAME AND SIGNATURE
 PRINT NAME OF SAMPLER: [Signature]
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED: 02/10/2014



CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Section B

Section C

Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30114
 Contact: []
 Phone: []
 Fax: []
Project Information:
 Project Name: Yates AP-2
 Project #: []
Order Information:
 Order #: 1770324-5326
 Order Date: []
Customer Information:
 Name: []
 Address: []
 City: []
 State: []
 Zip: []
 Phone: []
 Fax: []

Required Project Information:
 Report To: Betty Steiner
 Copy To: []
Purchase Order #:
 Purchase Order #: []
 Project Name: Yates AP-2
 Project #: []
Invoice Information:
 Address: []
 City: []
 State: []
 Zip: []
 Company Name: []
 Project Manager: lew@hearing@proctus.com
 POC Profile #: 10840

ITEM #	DESCRIPTION	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	RESIDUAL CHLORINE (Y/N)		
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	App IV Metals
1	YOWC-281 (02121)	WT	SMB	07/17/09	07/24/09	17.24												
2		WT																
3		WT																
4		WT																
5		WT																
6		WT																
7		WT																
8		WT																
9		WT																
10		WT																

LABORATORY INFORMATION:
 Laboratory: []
 Analyst: []
 Date Recd: []
DATE RECEIVED BY: 02/17/09
DATE RECEIVED BY: 2/11/2003
DATE RECEIVED BY: []
DATE RECEIVED BY: []

ANALYST NAME AND SIGNATURE: []
PRINT NAME OF SAMPLER: Peter Thompson
SIGNATURE OF SAMPLER: []
DATE SIGNED: 02/11/2003
TEMP In C: []
 Received on Ice (Y/N) []
 Custody Sealed (Y/N) []
 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.

Form A

Section B

Required Project Information:

Client Information: **Party:** Georgia Power
Address: 1070 Bridge Mill Ave
 Atlanta, GA 30114
Phone: (770) 364-5525
Fax:

Report To: Buddy Steever
Copy To:
Project Name: *WATER*
Project #: *KP-2*
Purchase Order #:
Requester Name: Kevin Herring
Requester Email: kevin.herring@ge.com
Requester Phone: 10640
Requester Title: QA

Section C

Involve Information:

Attention:
Company Name:
Address:
Phone:
Project Manager: Kevin Herring
Project Profile #: 10640

CONTAINER ID	DATE	TIME	LOCATION	ANALYTES REQUESTED	PRESERVATIVES	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	ANALYTES TESTED	RESIDUAL CHLORINE (Y/N)									
						START DATE	START TIME	END DATE					END TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other
<i>YUWA-1-E</i>	<i>4/12</i>	<i>1520</i>	<i>YUWA-1-E</i>	<i>WATER</i>						<i>2</i>	<input checked="" type="checkbox"/> App IV Metals <input checked="" type="checkbox"/> Fluoride <input checked="" type="checkbox"/> RAD 9315/9320	<i>92521567</i>									
<i>YUWA-1-D</i>	<i>4/12</i>	<i>1555</i>	<i>YUWA-1-D</i>	<i>WATER</i>						<i>2</i>	<input checked="" type="checkbox"/> App IV Metals <input checked="" type="checkbox"/> Fluoride <input checked="" type="checkbox"/> RAD 9315/9320	<i>92521567</i>									
<i>YUWA-1-C</i>			<i>YUWA-1-C</i>	<i>WATER</i>						<i>2</i>	<input checked="" type="checkbox"/> App IV Metals <input checked="" type="checkbox"/> Fluoride <input checked="" type="checkbox"/> RAD 9315/9320	<i>92521567</i>									
<i>YUWA-1-B</i>			<i>YUWA-1-B</i>	<i>WATER</i>						<i>2</i>	<input checked="" type="checkbox"/> App IV Metals <input checked="" type="checkbox"/> Fluoride <input checked="" type="checkbox"/> RAD 9315/9320	<i>92521567</i>									

ACQUIRED BY: *Billy Seifrieds*
DATE: *4/12/21*
TIME: *2:5*
ACQUIRED BY: *Kevin Herring*
DATE: *4/12/21*
TIME:

TEMP in C: *25*
Received on Ice (Y/N): *Y*
Cooler Sealed (Y/N): *N*
Samples Intact (Y/N): *Y*

92521567

PH 6.21

PH 7.14

010

011



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Client Information:

Client Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: GA 30114
 Phone: (770) 394-8528
 Fax:

Section B
Required Project Information:

Report To: Becky Steiner
 Copy To:
 Purchase Order #: Yates AP-2
 Project Name: Project #:

Section C
Invoice Information:

Company Name:
 Address:
 Payer Order:
 Payer Project Manager: Kevin.henthorn@ge.com
 Payer Profile #: 10940

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

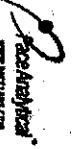
MATRIX CODES:
 Drinking Water: DWID
 Wastewater: WWTID
 Process Water: PWTID
 Product Water: PDWID
 Sewage: SWID
 Other: OTID
 Tissue: TS

YGMC-201	WT	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							App IV Metals	Fluoride	RAD 6916/6920	Residual Chlorine (Y/N)
								Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
02122	WT	11/15/20	11:20				4											
02122	WT	11/17/20	11:20				4											
02122	WT	11/17/20	11:20				4											
	WT																	
	WT																	
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	WT																	
	WT																	
	WT																	
	WT																	
	WT																	
	WT																	

Received on ice (Y/N)
 Custody Sealed
 Cooler (Y/N)
 Samples intact (Y/N)

Signature of Sampler: [Signature]
 Date: 11/17/20
 Location: [Location]

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.

Section A
 Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Kennesaw, GA 30144

Section B
 Required Project Information:
 Report To: Beach Street
 Copy To:
 Purchase Order #:
 Project Name: Yates AWA
 Project #:

Section C
 Analytical Information:
 Application:
 Company Name:
 Address:
 PO Box:
 PO Box Project Manager: kevin.berting@gepcostar.com
 PO Box Profile #: 10840
 Regulatory Agency: GA
 State: Georgia

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)

DATE	TIME	COLLECTED	
		START	END
08/21/19	16:45		

SAMPLE TEMP AT COLLECTION	
Y	

# OF CONTAINERS	
Unpreserved	
H2SO4	
HNO3	
HCl	
NaOH	
Na2S2O3	
Methanol	
Other	

Analyses Test	Y/N
App IV Metals	X
Fluoride	X
RAD 9315/9320	X

Residual Chlorine (Y/N)
 92521564

NO	MATERIAL	CODE	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							Analyses Test	Y/N	TEMP In C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)	
					DATE	TIME			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other								
13	Y6WA-SD	WT			08/21/19	16:45	Y																
14		WT																					
15		WT																					
16		WT																					
17		WT																					
18		WT																					
19		WT																					
20		WT																					
21		WT																					
22		WT																					
23		WT																					
24		WT																					

ADDITIONAL COMMENTS

REMOVED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE COMMENTS

ANALYSEE NAME AND SIGNATURE

PRINT NAME OF SAMPLER: Peter H...
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED: 08/10/2019



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
Requested Client Information: Agency: Georgia Power Address: 1070 Bradford Mill Ave Marietta, GA 30114		Requested Project Information: Report To: Becky Steever Copy To:		Invoice Information: Attention: Company Name: Address: Pace Order: Pace Project Manager: Kevin Herrington@pacestate.com Pace Profile #: 10040	
Job #: [770]324-5235 Project Name: Yates AMA Project #: Requested Date Date:		Purchase Order #: Vates AMA Project Name:		Attention: Company Name: Address: Pace Order: Pace Project Manager: Kevin Herrington@pacestate.com Pace Profile #: 10040	

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	PRESERVATIVES							Analytical	App IV Metals	Fluoride	RAD 9316/9320	Residual Chlorine (Y/N)	
				START DATE	END DATE	UNPRESERVED	H2SO4		HNO3	HCl	NaOH	Na2S2O3	Methanol	Other							
1	YGWA-11 (020921)	WT	2/9	2000		4	N	X									X	X	X		PH 6.00
2	YGWA-17S (010921)	WT	2/9	1115		4	X	X									X	X	X		PH 5.02
3	YGWA-18S (020921)	WT	2/9	1355		4	X	X									X	X	X		PH 6.12
4	YGWA-181 (020921)	WT	2/9	1400		4	X	X									X	X	X		PH 6.95
5	YGWA-211 (020921)	WT	2/9	1400		4	X	X									X	X	X		PH 6.95

DATE	TIME	BY	REMARKS	DATE	TIME	BY	REMARKS
2/9/17	1556	JKK		2/9/17	1550	JKK	
2/9/17	1600	JKK		2/9/17	1600	JKK	
2/9/17	1600	JKK		2/9/17	1600	JKK	
2/9/17	1600	JKK		2/9/17	1600	JKK	

Received on ice (Y/N)
 Custody Sealed (Y/N)
 Samples Intact (Y/N)

PRINT NAME OF ANALYST: **Becky Steever**
 SIGNATURE OF ANALYST: *[Signature]*

DATE: **2/9/17**



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A: Client Information
 Company: Georgia Power
 Address: 1070 Etchigo Mill Ave
 City: Dalton, GA 30714
 Phone: (770) 344-6325
 Fax: _____

Section B: Requested Project Information
 Report To: Becky Severn
 Copy To: _____
 Purchase Order #: _____
 Project Name: _____
 Project #: _____

Section C: Shipper Information
 Address: _____
 City: _____
 State: _____
 Zip: _____
 Pace Order #: _____
 Pace Project Manager: Kevin.Hettinger@paceanalytical.com
 Pace Public #: 10940

Page: 1 of 2
 CoCB

SAMPLE ID
 One Character per box.
 (A-Z, 0-9, ., -)

SAMPLE ID
 YVWA-SI (021021)
 YVWA-SI (621021)

Matrix
 Divalent Metals
 Heavy Metals
 Nitrate/Nitrite
 Sulfate
 Arsenic
 Ammonia
 Cyanide
 Chloride
 Fluoride
 Lead
 Cadmium
 Copper
 Zinc
 Iron
 Manganese
 Nickel
 Selenium
 Silver
 Vanadium
 Molybdenum
 Barium
 Boron
 Calcium
 Magnesium
 Phosphorus
 Strontium
 Sulfur
 Tellurium
 Thallium
 Uranium
 Vanadium
 Zirconium

ITEM #	SAMPLE ID	MATRIX	CODE	WEIGHT	DATE	TIME	START	END	SAMPLE TEMP AT COLLECTION	PRESERVATIVES		APPRIORATE			RESIDUAL CHLORINE (Y/N)
										UNPRESERVED	H2BO4	APP IV METALS	FLUORIDE	RAD 0315/8320	
1	YVWA-SI (021021)	WT	WT	4/10	11:40				4	X	X	X	X	X	
2	YVWA-SI (621021)	WT	WT	2/10	11:15				4	X	X	X	X	X	
3	YVWA-SI	WT	WT												
4	YVWA-SI	WT	WT												
5	YVWA-SI	WT	WT												

CLIENT NAME AND SOLVENTS
 PRINT Name of SAMPLE: Becky Severn
 SIGNATURE: _____
 DATE: 2/15/12

SHIPPER INFORMATION
 SIGNATURE: _____
 DATE: 2/15/12

RECEIVED INFORMATION
 Received on Ice (Y/N): _____
 Custody Sealed/Cooler (Y/N): _____
 Samples Intact (Y/N): _____

92521564
 PH 7:59
 PM 7:21
 013
 014

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A: Client Information
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114

Section B: Project Information
 Requested Report For: Beach Street
 Project Name: Yates AP-2
 Project #: 10940

Section C: Invoicing Information
 Invoice #: 10940
 Company Name:
 Address:
 Phone Number: 10940
 Project Manager: kevin.harding@gepower.com

SECTION 1: SAMPLE ID
 One Character per box. (A-Z, 0-9/.).

Matrix Codes: (see valid codes to left)
 Matrix Code: WT

Sample Type: (G=GRAB C=COMP)

ITEM #	MATRIX CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analytes Test	Residual Chlorine (Y/N)		
		START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	
1	WT														
2	WT														
3	WT														
4	WT														
5	WT														
6	WT														
7	WT														
8	WT														
9	WT														
10	WT														
11	WT														
12	WT														

ITEM #	DESCRIPTION	WT	DATE	TIME	DATE	TIME	TEMP	ANALYZES TEST	RESIDUAL CHLORINE (Y/N)
1	YGMVA-328	WT							
2	YGMVA-328	WT							
3	YGMVA-328	WT							
4	YGMVA-328	WT							
5	YGMVA-328	WT							
6	YGMVA-328	WT							
7	YGMVA-328	WT							
8	YGMVA-328	WT							
9	YGMVA-328	WT							
10	YGMVA-328	WT							
11	YGMVA-328	WT							
12	YGMVA-328	WT							

SECTION 2: SAMPLER USE AND SIGNATURE

PRINT Name of SAMPLER: Kyle Spencer
 SIGNATURE of SAMPLER:

DATE Signed: 2-11-21

TEMP in C

Received on Ice? (Y/N)

Cooler Sealed? (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.

Section A
 Client Information: Georgia Power, 1070 Bridge Hill Ave, Dalton, GA 30714
 Section B
 Requested Project Information: Report To: Becky Steiner, Copy To:
 Section C
 Invoice Information: Company Name: , Address: ,
 Attention: ,
 Purchase Order #: ,
 Project Name: Yates AP-2,
 Project #: ,
 Date Quoted: ,
 Project Manager: level.herring@pacelabs.com,
 Price Profile #: 10940,
 Regulatory Agency: ,
 State / Location: GA

Section D
 Sample Information: SAMPLE ID: One Character per box. (A-Z, 0-9, /, -)
 Sample lbs must be unique
 MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)
 DATE TIME DATE TIME
 COLLECTED
 START END
 SAMPLE TEMP AT COLLECTION
 # OF CONTAINERS
 Unpreserved
 H2SO4
 HNO3
 HCl
 NaOH
 Na2S2O3
 Methanol
 Other
 Analysis Test Y/N
 App IV Metals
 Fluoride
 RAD 9315/9320
 Residual Chlorine (Y/N)
 92521578

ITEM #	MATERIAL	WT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSIS TEST	RESIDUAL CHLORINE (Y/N)				
			DATE	TIME			DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH			Na2S2O3	Methanol	Other	
1	YGMW-115	WT																	
2	YGMW-115	WT																	
3	YGMW-21	WT																	
4	YGMW-21	WT																	
5	YGMW-307	WT	02/14/21	1130	4														
6	YGMW-145	WT	02/14/21	0850	4														
7	YGMW-288	WT	02/14/21	1130	4														
8	YGMW-288	WT	02/14/21	1000	4														
9	YGMW-281	WT	02/14/21	1100	4														
10	YGMW-275	WT	02/14/21	1210	4														
11	YGMW-271	WT	02/14/21	1315	4														
12	YGMW-285	WT	02/14/21	1315	4														

RECEIVED BY / APPLICATION: *Debra Banks* DATE: *2/14/21* TIME: *11:00*

ACCEPTED BY / APPLICATION: *Debra Banks* DATE: *2/14/21* TIME: *11:00*

SAMPLER NAME AND SIGNATURE: *Debra Banks*

PRINT NAME OF SAMPLER: *Debra Banks*

SIGNATURE OF SAMPLER: *[Signature]*

DATE SIGNED: *02/10/2021*

TEMP in C: _____

Received on ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

COC 2

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A

Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: GA 30114

Required Project Information:
Report To: Becky Stever
Copy To:

Section B

Project Name: Yates AP-2
Purchase Order #: Yates AP-2
Project #:

Section C

Invoice Information:
Attention:
Company Name:
Address:
Phone Number:
Fax:
Project Manager: yates.berfeg@epscs.com
Phone #: 10940

Page: 1 of 1

SAMPLE ID
One Character per box.
(A-Z, 0-9, /)

MATRIX CODES:
DWD DWID
WWD WTID
PDD PTID
SDD STID
ASD ASID
OTD OTID

MATRIX CODES:
DWD DWID
WWD WTID
PDD PTID
SDD STID
ASD ASID
OTD OTID

YGMCS	YGMCS	WT	WT	WT	WT	WT	WT	WT	WT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives							Analytes Test	App IV Metals	Fluoride	RAD 9316/9320	Residual Chlorine (Y/N)
										START DATE	END DATE				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					
02122	02122	WT	WT	WT	WT	WT	WT	WT	WT	12/15/20		4	4							X	X	X				
01122	01122	WT	WT	WT	WT	WT	WT	WT	WT	11/24/20		4	4							X	X	X				
01122	01122	WT	WT	WT	WT	WT	WT	WT	WT	11/24/20		4	4							X	X	X				
01122	01122	WT	WT	WT	WT	WT	WT	WT	WT	11/24/20		4	4							X	X	X				

NON-COMMERCIAL USE ONLY

Prepared By: [Signature]

DATE: 02/21/21

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 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# : 92521581

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 21 Correction Factor: Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 21

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

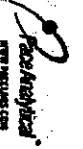
Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

COL 3

Section B

Required Project Information:

Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: ATLANTA, GA 30114
 Phone: (770)384-6325
 Fax: []
 Project Name: Yates AWA
 Project #:

Requested Project Information:
 Report To: Becky Stamer
 Copy To:
 Purchase Order #:
 Project Name: Yates AWA
 Project #:

Company Information:
 Attention:
 Company Name:
 Address:
 Phone Office:
 Project Manager: kevin.herring@pacanaly.com
 Phone Profile #: 10840

Section C

Invoice Information:

Invoice Information:
 Attention:
 Company Name:
 Address:
 Phone Office:
 Project Manager: kevin.herring@pacanaly.com
 Phone Profile #: 10840

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyse Test	Residual Chlorine (Y/N)
			START DATE	START TIME	END DATE	END TIME					
13	Y600A-SD	WT	02/21/17	1645			1	Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	App IV Metals Fluoride RAD 8315/8320	G252561	
14		WT									
15		WT									
16		WT									
17		WT									
18		WT									
19		WT									
20		WT									
21											
22											
23											
24											

RECEIVED BY / AFFILIATION: [Signature] DATE: 02/21/17 TIME: []

ACCEPTED BY / AFFILIATION: [Signature] DATE: 02/21/17 TIME: []

RECEIVED BY / AFFILIATION: [Signature] DATE: 02/21/17 TIME: []

SAMPLER NAME AND SIGNATURE: Peter Herring
 PRINT NAME OF SAMPLER: Peter Herring
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED: 02/21/17

TEMP IN C: []
 Received on Ice (Y/N)
 Custody Sealed (Y/N)
 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.

Section A

Client Information:
Company: Georgia Power
Address: 1070 Bridge Hill Ave
City: Dalton, GA 30714
Phone: (770) 394-5325
Fax:
E-Mail: (770) 394-5325

Section B

Requested Project Information:
Report To: Becky Seener
Copy To:
Project Name: Yaws AMA
Purchase Order #: Yaws AMA
Project #:

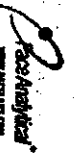
Section C

Invoice Information:
Attention:
Company Name:
Address:
Phone Number:
Purchase Order #: 10940
Sales / Location:
Project #:

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)		SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes			Residual Chlorine (Y/N)
		Unpreserved	H2SO4		HNO3	HCl			NaOH	Na2S2O3	Methanol	Other	App IV Metals	Fluoride	RAD 9315/9320				
1	YGMW-01(622821)	WT	WT	WT	2-8-21	16:20	4	1	X	X	X	X	X	X	X	X	X	X	4251181
2	YGMW-39	WT	WT	WT	2-9-21	16:20	4	1	X	X	X	X	X	X	X	X	X	X	PH: 5.67
3	YGMW-40	WT	WT	WT	2-10-21	10:50	4	1	X	X	X	X	X	X	X	X	X	X	PH: 5.80
4	YGMW-41	WT	WT	WT	2-10-21	11:05	4	1	X	X	X	X	X	X	X	X	X	X	PH: 5.80
5	YGMW-42	WT	WT	WT			4	1	X	X	X	X	X	X	X	X	X	X	

CLIENT/PROJECT	DATE	ACCEPTED/EXEMPTION	DATE	SAMPLE CONDITION
Kate Pykewicz/Arcois	2/10/21		5/12/21	1710

PRINT Name of SAMPLER: *Kate Pykewicz*
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: *2-9-2021*
 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.

Section A
 Required Client Information:

Company: Georgia Power
 Address: 1070 Br509E NW Ave
 City: Atlanta, GA 30314
 Phone: (770)394-5526
 Fax: [Blank]
 Project Name: Yares AMA
 Project #: [Blank]

Section B
 Required Project Information:

Report To: Becky Stever
 Copy To: [Blank]
 Purchase Order #: [Blank]
 Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Pace Order: [Blank]
 Pace Project Manager: Kerla Lerting@pacestate.com
 Pace Profile #: 10940

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, .)	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							Analytical Test	Residual Chlorine (Y/N)	PH	
			START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2B2O3	Methanol				Other
1	YGWA-41 (020921)	WT	2/9	1400	4	X	X	X	X	X	X	X	X	X	X	6.25
2	YGWA-17S (010921)	WT	2/9	1415	4	X	X	X	X	X	X	X	X	X	X	6.00
3	YGWA-18S (020921)	WT	2/9	1355	9	X	X	X	X	X	X	X	X	X	X	5.02
4	YGWA-181 (020921)	WT	2/9	1400	4	X	X	X	X	X	X	X	X	X	X	6.12
5	YGWA-211 (010921)	WT	2/9	1400	4	X	X	X	X	X	X	X	X	X	X	6.95
6	YGWA-211 (020921)	WT	2/9	156	4	X	X	X	X	X	X	X	X	X	X	6.95

PRINT NAME OF SIGNER: *Becky Stever*
 SIGNATURE OF SIGNER: *[Signature]*

DATE: *2/10/21*

TEMP in C: [Blank]
 Received on Ice (Y/N): [Blank]
 Custody Sealed (Y/N): [Blank]
 Samples Intact (Y/N): [Blank]

B. Stever / Arcata
2/9/21
1500
After Arcades
Clare Sparks High 710

PH

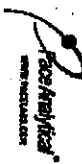
PH 6.95

PH 6.12

PH 5.02

PH 6.00

6.25



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Client Information:
 Agency: Georgia Power
 Address: 1070 Emory Mill Ave
 City: Atlanta, GA 30114
 Phone: (770) 234-6325
 Fax: [blank]
 Requested Date/Time: [blank]

Section B
 Requested Project Information:
 Report To: Becky Stevens
 Copy To: [blank]
 Project Name: [blank]
 Project #: [blank]

Section C
 Invoice Information:
 Attention: [blank]
 Company Name: [blank]
 Address: [blank]
 State: [blank]
 Zip: [blank]
 Project Manager: Kevin Leung@faceanalytical.com
 Pace Profile #: 10840

Section D
 Sample Information:
 Sample Name: YLWA-3I (02021)
 Matrix Code: [blank]
 Sample Type: (G=GRAB C=COMP)
 Date Collected: 11/14/05
 Time Collected: 12:15
 Sample Temp at Collection: [blank]
 # of Containers: 4
 Preservatives:
 H2SO4 [X]
 HNO3 [X]
 HCl [X]
 NaOH [X]
 Na2S2O3 [X]
 Methanol [X]
 Other [X]
 App IV Metals [X]
 Fluoride [X]
 RAD 95150320 [X]
 Residual Chlorine (Y/N): [blank]

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							ADDITIONAL TESTS	TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Samples Intact (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					
1	YLWA-3I (02021)			11/14/05	12:15		4	X	X	X	X	X	X	X					
2	YLWA-3D (62021)			11/14/05	12:15		4	X	X	X	X	X	X	X					
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

Section E
 Laboratory Name and Signatures:
 PRINT Name of Sample Lab: Becky Stevens
 Signature: [Handwritten Signature]
 Date: 11/14/05

Section F
 Date: 11/14/05
 Signature: [Handwritten Signature]

Section G
 Date: 11/14/05
 Signature: [Handwritten Signature]

92521561
 PH 7.58
 PH 7.81
 014



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

023

Section A: Client Information
 City: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114

Section B: Required Project Information
 Report To: Betty Sawyer
 Copy To:
 Purchase Order #: Years AP-2
 Project Name: Years AP-2
 Project #:

Section C: Product Information
 Address:
 Company Name:
 POC Project Manager: Kevin Herbig@pandanalytics.com
 Phone Project #: 100-40

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -)	MATERIAL	COODES	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives							Analyzer Test	App IV Metals	Fluoride	RAD 9316/9320	Residual Chlorine (Y/N)			
						START DATE	END DATE	DATE	TIME		H2804	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other								
1	02021	VGWA-SR	DWG			2/1/21	0950			4	/	/	/	/	/	/	/	/	X	X	X	X	X		PH-573-015 06 017
2	EB-01021121	VGWA-SR	DWG			2-1-21	1000			4	/	/	/	/	/	/	/	/	X	X	X	X	X		
3	EB-01021121	VGWA-SR	DWG			2-1-21	1205			4	/	/	/	/	/	/	/	/	X	X	X	X	X		
4		VGWA-SR	DWG																						
5		VGWA-SR	DWG																						

SAMPLER USE AND SIGNATURE

PRINT NAME OF SAMPLER: KATHY SPICER

SIGNATURE OF SAMPLER: *[Signature]*

DATE SIGNED: 2-11-21

DATE: 2/11/21

APPROVED BY (CLIENT): *[Signature]*

DATE: 2/11/21

TEMP In C

Received on Ice: (Y/N)

Custody Sealed: (Y/N)

Cooler: (Y/N)

Samples Intact: (Y/N)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier
	YGWA-30I	6010D	Lead	<0.005	mg/L	UB
	YGWA-20S	6010D	Antimony	<0.0030	mg/L	UB
	YGWA-21I	6010D	Antimony	<0.0030	mg/L	UB
92521578	No Qualifiers Added					
92521568	No Qualifiers Added					
92521567	No Qualifiers Added					

Abbreviations:
mg/L = milligrams per liter

Qualifiers:
UB = not detected due to blank contamination
J/UJ = Estimated

February 25, 2021

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

RE: Project: YATES AMA
Pace Project No.: 92521581

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES AMA

Pace Project No.: 92521581

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

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 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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES AMA

Pace Project No.: 92521581

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521581001	YGWA-5D (020821)	Water	02/08/21 16:45	02/10/21 17:10
92521581002	DUP-01(020821)	Water	02/08/21 00:00	02/10/21 17:10
92521581003	YGWA-5I (020821)	Water	02/08/21 16:20	02/10/21 17:10
92521581004	YGWA-39 (021021)	Water	02/10/21 09:30	02/10/21 17:10
92521581005	YGWA-40 (021021)	Water	02/10/21 10:50	02/10/21 17:10
92521581006	FB-01(021021)	Water	02/10/21 11:05	02/10/21 17:10
92521581007	YGWA-20S (020921)	Water	02/09/21 16:50	02/10/21 17:10
92521581008	YGWA-4I(020921)	Water	02/09/21 09:50	02/10/21 17:10
92521581009	YGWA-17S(020921)	Water	02/09/21 11:15	02/10/21 17:10
92521581010	YGWA-18S(020921)	Water	02/09/21 13:25	02/10/21 17:10
92521581011	YGWA-18I(020921)	Water	02/09/21 14:00	02/10/21 17:10
92521581012	YGWA-21I(020921)	Water	02/09/21 16:10	02/10/21 17:10
92521581013	YGWA-3I(021021)	Water	02/10/21 16:40	02/11/21 13:03
92521581014	YGWA-3D(021021)	Water	02/10/21 17:25	02/11/21 13:03
92521581015	YGWA-30I(021121)	Water	02/11/21 09:50	02/11/21 13:03
92521581016	FB-01(021121)	Water	02/11/21 10:00	02/11/21 13:03
92521581017	EB-01(021121)	Water	02/11/21 12:05	02/11/21 13:03
92521578002	YGWA-14S (021021)	Water	02/10/21 08:50	02/10/21 17:10
92521578010	YGWA-1I (021221)	Water	02/12/21 13:20	02/12/21 17:10
92521578011	YGWA-1D (021221)	Water	02/12/21 11:55	02/12/21 17:10
92521578001	EB-02 (021021)	Water	02/10/21 11:30	02/10/21 17:10
92521578003	DUP-1 (021021)	Water	02/10/21 00:00	02/10/21 17:10
92521583002	YGWA-2I(021021)	Water	02/10/21 12:40	02/10/21 17:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92521581001	YGWA-5D (020821)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581002	DUP-01(020821)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581003	YGWA-5I (020821)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581004	YGWA-39 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581005	YGWA-40 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581006	FB-01(021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581007	YGWA-20S (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581008	YGWA-4I(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581009	YGWA-17S(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581010	YGWA-18S(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581011	YGWA-18I(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581012	YGWA-21I(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581013	YGWA-3I(021021)	EPA 6020B	CW1	12

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581014	YGWA-3D(021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581015	YGWA-30I(021121)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581016	FB-01(021121)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581017	EB-01(021121)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578002	YGWA-14S (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578010	YGWA-1I (021221)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92521578011	YGWA-1D (021221)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92521578001	EB-02 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578003	DUP-1 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521583002	YGWA-2I(021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521581001	YGWA-5D (020821)					
EPA 6020B	Barium	0.0079J	mg/L	0.010	02/17/21 19:42	
EPA 6020B	Lead	0.00013J	mg/L	0.0050	02/17/21 19:42	
EPA 6020B	Lithium	0.0063J	mg/L	0.030	02/17/21 19:42	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/17/21 19:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/13/21 00:35	
92521581002	DUP-01(020821)					
EPA 6020B	Barium	0.020	mg/L	0.010	02/17/21 19:47	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/17/21 19:47	
92521581003	YGWA-5I (020821)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.67	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.020	mg/L	0.010	02/17/21 19:53	
EPA 6020B	Lead	0.000037J	mg/L	0.0050	02/17/21 19:53	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	02/17/21 19:53	
92521581004	YGWA-39 (021021)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.80	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.027	mg/L	0.010	02/17/21 19:59	
EPA 6020B	Beryllium	0.000051J	mg/L	0.0030	02/17/21 19:59	
EPA 6020B	Cadmium	0.00019J	mg/L	0.0025	02/17/21 19:59	
EPA 6020B	Cobalt	0.00098J	mg/L	0.0050	02/17/21 19:59	
EPA 6020B	Lithium	0.0071J	mg/L	0.030	02/17/21 19:59	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	02/17/21 19:59	
92521581005	YGWA-40 (021021)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.19	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.032	mg/L	0.010	02/17/21 20:05	
EPA 6020B	Beryllium	0.00021J	mg/L	0.0030	02/17/21 20:05	
92521581006	FB-01(021021)					
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	02/17/21 20:39	B
92521581007	YGWA-20S (020921)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.86	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.00032J	mg/L	0.0030	02/17/21 20:45	B
EPA 6020B	Barium	0.015	mg/L	0.010	02/17/21 20:45	
EPA 6020B	Beryllium	0.000068J	mg/L	0.0030	02/17/21 20:45	
EPA 6020B	Chromium	0.00056J	mg/L	0.010	02/17/21 20:45	
EPA 6020B	Lead	0.000063J	mg/L	0.0050	02/17/21 20:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521581008	YGWA-4I(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.06	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.013	mg/L	0.010	02/17/21 20:50	
EPA 6020B	Lithium	0.011J	mg/L	0.030	02/17/21 20:50	
92521581009	YGWA-17S(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	5.62	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.016	mg/L	0.010	02/17/21 20:56	
EPA 6020B	Beryllium	0.000094J	mg/L	0.0030	02/17/21 20:56	
EPA 6020B	Chromium	0.00098J	mg/L	0.010	02/17/21 20:56	
92521581010	YGWA-18S(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	5.43	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.017	mg/L	0.010	02/17/21 21:02	
EPA 6020B	Beryllium	0.000098J	mg/L	0.0030	02/17/21 21:02	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	02/17/21 21:02	
EPA 6020B	Lead	0.000094J	mg/L	0.0050	02/17/21 21:02	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	02/17/21 21:02	
92521581011	YGWA-18I(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.12	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.023	mg/L	0.010	02/17/21 21:07	
EPA 6020B	Chromium	0.00083J	mg/L	0.010	02/17/21 21:07	
EPA 6020B	Lead	0.000050J	mg/L	0.0050	02/17/21 21:07	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/17/21 21:07	
92521581012	YGWA-21I(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.95	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/17/21 21:13	B
EPA 6020B	Arsenic	0.0010J	mg/L	0.0050	02/17/21 21:13	
EPA 6020B	Barium	0.011	mg/L	0.010	02/17/21 21:13	
EPA 6020B	Cadmium	0.00041J	mg/L	0.0025	02/17/21 21:13	
EPA 6020B	Cobalt	0.0090	mg/L	0.0050	02/17/21 21:13	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/17/21 21:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.092J	mg/L	0.10	02/12/21 16:12	
92521581013	YGWA-3I(021021)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	7.58	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00078J	mg/L	0.0050	02/17/21 21:19	
EPA 6020B	Barium	0.0029J	mg/L	0.010	02/17/21 21:19	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA
Pace Project No.: 92521581

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521581013	YGWA-3I(021021)					
EPA 6020B	Lithium	0.015J	mg/L	0.030	02/17/21 21:19	
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	02/17/21 21:19	
92521581014	YGWA-3D(021021)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	7.81	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00094J	mg/L	0.0050	02/17/21 21:25	
EPA 6020B	Barium	0.0059J	mg/L	0.010	02/17/21 21:25	
EPA 6020B	Lithium	0.023J	mg/L	0.030	02/17/21 21:25	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	02/17/21 21:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	02/12/21 20:11	
92521581015	YGWA-30I(021121)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.73	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0077J	mg/L	0.010	02/17/21 21:30	
EPA 6020B	Beryllium	0.000047J	mg/L	0.0030	02/17/21 21:30	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	02/17/21 21:30	
EPA 6020B	Lead	0.000046J	mg/L	0.0050	02/17/21 21:30	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/17/21 21:30	
92521581016	FB-01(021121)					
EPA 6020B	Lead	0.00013J	mg/L	0.0050	02/17/21 21:53	
92521578002	YGWA-14S (021021)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.35	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0078J	mg/L	0.010	02/23/21 20:47	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	02/23/21 20:47	
EPA 6020B	Lead	0.000048J	mg/L	0.0050	02/23/21 20:47	
92521578010	YGWA-1I (021221)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.21	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0090J	mg/L	0.010	02/23/21 22:01	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	02/23/21 22:01	
EPA 6020B	Lead	0.00038J	mg/L	0.0050	02/23/21 22:01	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	02/23/21 22:01	
EPA 6020B	Molybdenum	0.0056J	mg/L	0.010	02/23/21 22:01	
92521578011	YGWA-1D (021221)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	7.14	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0057J	mg/L	0.010	02/23/21 22:07	
EPA 6020B	Cobalt	0.00086J	mg/L	0.0050	02/23/21 22:07	
EPA 6020B	Lead	0.000044J	mg/L	0.0050	02/23/21 22:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521578011	YGWA-1D (021221)					
EPA 6020B	Lithium	0.010J	mg/L	0.030	02/23/21 22:07	
EPA 6020B	Molybdenum	0.0080J	mg/L	0.010	02/23/21 22:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.068J	mg/L	0.10	02/16/21 19:01	
92521578003	DUP-1 (021021)					
EPA 6020B	Barium	0.0078J	mg/L	0.010	02/23/21 20:52	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	02/23/21 20:52	
92521583002	YGWA-2I(021021)					
	Performed by	CUSTOME R			02/23/21 08:11	
	pH	7.29	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/19/21 19:27	
EPA 6020B	Barium	0.0032J	mg/L	0.010	02/19/21 19:27	
EPA 6020B	Lead	0.00015J	mg/L	0.0050	02/19/21 19:27	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	02/19/21 19:27	
EPA 6020B	Molybdenum	0.0041J	mg/L	0.010	02/19/21 19:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/12/21 16:44	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-5D (020821) **Lab ID: 92521581001** Collected: 02/08/21 16:45 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:42	7440-38-2	
Barium	0.0079J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:42	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:42	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:42	7440-48-4	
Lead	0.00013J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:42	7439-92-1	
Lithium	0.0063J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:42	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:42	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:42	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:29	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.055J	mg/L	0.10	0.050	1		02/13/21 00:35	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: DUP-01(020821) Lab ID: 92521581002 Collected: 02/08/21 00:00 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:47	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:47	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:47	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:47	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:47	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:47	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:47	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:31	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 00:50	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-5I (020821) Lab ID: 92521581003 Collected: 02/08/21 16:20 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	5.67	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:53	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:53	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:53	7440-48-4	
Lead	0.000037J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:53	7439-92-1	
Lithium	0.0032J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:53	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 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	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:34	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:04	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-39 (021021) **Lab ID: 92521581004** Collected: 02/10/21 09:30 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	5.80	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:59	7440-38-2	
Barium	0.027	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:59	7440-39-3	
Beryllium	0.00051J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:59	7440-41-7	
Cadmium	0.00019J	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:59	7440-47-3	
Cobalt	0.00098J	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:59	7439-92-1	
Lithium	0.0071J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:59	7439-93-2	
Molybdenum	0.0013J	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:59	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:36	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:19	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-40 (021021) Lab ID: 92521581005 Collected: 02/10/21 10:50 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	5.19	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:05	7440-38-2	
Barium	0.032	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:05	7440-39-3	
Beryllium	0.00021J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:05	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:05	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:05	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:05	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:05	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:38	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:33	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: FB-01(021021) Lab ID: 92521581006 Collected: 02/10/21 11:05 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00052J	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:39	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:39	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:39	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:39	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:39	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:39	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:39	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:53	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:16	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-20S (020921) Lab ID: 92521581007 Collected: 02/09/21 16:50 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	5.86	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00032J	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:45	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:45	7440-38-2	
Barium	0.015	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:45	7440-39-3	
Beryllium	0.00068J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:45	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:45	7440-43-9	
Chromium	0.00056J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:45	7440-48-4	
Lead	0.00063J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:55	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:31	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-4I(020921) Lab ID: 92521581008 Collected: 02/09/21 09:50 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	6.06	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:50	7440-38-2	
Barium	0.013	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:50	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:50	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:50	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:57	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:45	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-17S(020921) **Lab ID: 92521581009** Collected: 02/09/21 11:15 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	5.62	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:56	7440-38-2	
Barium	0.016	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:56	7440-39-3	
Beryllium	0.00094J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:56	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:56	7440-43-9	
Chromium	0.00098J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:56	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:56	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:00	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 03:29	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-18S(020921) **Lab ID: 92521581010** Collected: 02/09/21 13:25 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	5.43	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:02	7440-38-2	
Barium	0.017	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:02	7440-39-3	
Beryllium	0.000098J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:02	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:02	7440-43-9	
Chromium	0.0013J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:02	7440-48-4	
Lead	0.000094J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:02	7439-92-1	
Lithium	0.0019J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:02	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:02	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:02	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 03:43	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-18(020921) **Lab ID: 92521581011** Collected: 02/09/21 14:00 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	6.12	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:07	7440-38-2	
Barium	0.023	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:07	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:07	7440-43-9	
Chromium	0.00083J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:07	7440-48-4	
Lead	0.000050J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:07	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:05	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 15:56	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-211(020921) **Lab ID: 92521581012** Collected: 02/09/21 16:10 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	6.95	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:13	7440-36-0	B
Arsenic	0.0010J	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:13	7440-38-2	
Barium	0.011	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:13	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:13	7440-41-7	
Cadmium	0.00041J	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:13	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:13	7440-47-3	
Cobalt	0.0090	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:13	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:13	7439-92-1	
Lithium	0.0060J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:13	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:07	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.092J	mg/L	0.10	0.050	1		02/12/21 16:12	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-3I(021021) Lab ID: 92521581013 Collected: 02/10/21 16:40 Received: 02/11/21 13:03 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		02/23/21 08:11		
pH	7.58	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:19	7440-36-0	
Arsenic	0.00078J	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:19	7440-38-2	
Barium	0.0029J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:19	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:19	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:19	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:19	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:19	7439-93-2	
Molybdenum	0.0038J	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:19	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:09	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 19:55	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-3D(021021) Lab ID: 92521581014 Collected: 02/10/21 17:25 Received: 02/11/21 13:03 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		02/23/21 08:11		
pH	7.81	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:25	7440-36-0	
Arsenic	0.00094J	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:25	7440-38-2	
Barium	0.0059J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:25	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:25	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:25	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:25	7439-92-1	
Lithium	0.023J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:25	7439-93-2	
Molybdenum	0.014	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:25	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:12	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.43	mg/L	0.10	0.050	1		02/12/21 20:11	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-30I(021121) Lab ID: 92521581015 Collected: 02/11/21 09:50 Received: 02/11/21 13:03 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		02/23/21 08:11		
pH	5.73	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:30	7440-38-2	
Barium	0.0077J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:30	7440-39-3	
Beryllium	0.000047J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:30	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:30	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:30	7440-47-3	
Cobalt	0.0078	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:30	7440-48-4	
Lead	0.000046J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:30	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:30	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:14	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:27	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA

Pace Project No.: 92521581

Sample: FB-01(021121) Lab ID: 92521581016 Collected: 02/11/21 10:00 Received: 02/11/21 13:03 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:53	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:53	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:53	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:53	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:53	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:53	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:53	7440-48-4		
Lead	0.00013J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:53	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:53	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:53	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:53	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:53	7440-28-0		
7470 Mercury										
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA										
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:21	7439-97-6		
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:43	16984-48-8		

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: EB-01(021121) Lab ID: 92521581017 Collected: 02/11/21 12:05 Received: 02/11/21 13:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:59	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:59	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:59	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:59	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:24	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:59	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-14S (021021) **Lab ID: 92521578002** Collected: 02/10/21 08:50 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	5.35	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:47	7440-38-2	
Barium	0.0078J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:47	7440-39-3	
Beryllium	0.00019J	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:47	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:47	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:47	7440-48-4	
Lead	0.000048J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:47	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 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	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:40	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:26	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-1I (021221) Lab ID: 92521578010 Collected: 02/12/21 13:20 Received: 02/12/21 17:10 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		02/23/21 08:11		
pH	6.21	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:01	7440-38-2	
Barium	0.0090J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:01	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:01	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:01	7440-47-3	
Cobalt	0.0028J	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:01	7440-48-4	
Lead	0.00038J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:01	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:01	7439-93-2	
Molybdenum	0.0056J	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 13:48	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/16/21 18:16	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-1D (021221) **Lab ID: 92521578011** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		02/23/21 08:11		
pH	7.14	Std. Units			1		02/23/21 08:11		

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:07	7440-38-2	
Barium	0.0057J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:07	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:07	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:07	7440-47-3	
Cobalt	0.00086J	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:07	7440-48-4	
Lead	0.000044J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:07	7439-92-1	
Lithium	0.010J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:07	7439-93-2	
Molybdenum	0.0080J	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:07	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 13:50	7439-97-6	
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Fluoride	0.068J	mg/L	0.10	0.050	1		02/16/21 19:01	16984-48-8	
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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: EB-02 (021021) Lab ID: 92521578001 Collected: 02/10/21 11:30 Received: 02/10/21 17:10 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:41	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:41	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:41	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:41	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:41	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:41	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:41	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:41	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:41	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:41	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:41	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 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	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:37	7439-97-6		
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:11	16984-48-8		

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: DUP-1 (021021) Lab ID: 92521578003 Collected: 02/10/21 00:00 Received: 02/10/21 17:10 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:52	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:52	7440-38-2		
Barium	0.0078J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:52	7440-39-3		
Beryllium	0.00019J	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:52	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:52	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:52	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:52	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:52	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:52	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:52	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:52	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 20:52	7440-28-0		
7470 Mercury										
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA										
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:47	7439-97-6		
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:40	16984-48-8		

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-2I(021021) **Lab ID: 92521583002** Collected: 02/10/21 12:40 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	7.29	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 19:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 19:27	7440-38-2	
Barium	0.0032J	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 19:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 19:27	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 19:27	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 19:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 19:27	7440-48-4	
Lead	0.00015J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 19:27	7439-92-1	
Lithium	0.0039J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 19:27	7439-93-2	
Molybdenum	0.0041J	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 19:27	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 19:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 19:27	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:03	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.094J	mg/L	0.10	0.050	1		02/12/21 16:44	16984-48-8	

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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600633 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

METHOD BLANK: 3165605 Matrix: Water
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00031J	0.0030	0.00028	02/17/21 19:30	
Arsenic	mg/L	ND	0.0050	0.00078	02/17/21 19:30	
Barium	mg/L	ND	0.010	0.00071	02/17/21 19:30	
Beryllium	mg/L	ND	0.0030	0.000046	02/17/21 19:30	
Cadmium	mg/L	ND	0.0025	0.00012	02/17/21 19:30	
Chromium	mg/L	ND	0.010	0.00055	02/17/21 19:30	
Cobalt	mg/L	ND	0.0050	0.00038	02/17/21 19:30	
Lead	mg/L	ND	0.0050	0.000036	02/17/21 19:30	
Lithium	mg/L	ND	0.030	0.00081	02/17/21 19:30	
Molybdenum	mg/L	ND	0.010	0.00069	02/17/21 19:30	
Selenium	mg/L	ND	0.010	0.0016	02/17/21 19:30	
Thallium	mg/L	ND	0.0010	0.00014	02/17/21 19:30	

LABORATORY CONTROL SAMPLE: 3165606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165608 3165611

Parameter	Units	92521581005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	111	109	75-125	2	20	

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

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QUALITY CONTROL DATA

Project: YATES AMA

Pace Project No.: 92521581

Parameter	Units	3165608		3165611		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92521581005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	3	20		
Barium	mg/L	0.032	0.1	0.1	0.14	0.13	103	98	75-125	4	20		
Beryllium	mg/L	0.00021J	0.1	0.1	0.092	0.093	92	93	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	105	103	75-125	2	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.092	0.096	92	96	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.095	96	94	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	3	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600920 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92521583002

METHOD BLANK: 3167301 Matrix: Water
Associated Lab Samples: 92521583002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/19/21 18:52	
Arsenic	mg/L	ND	0.0050	0.00078	02/19/21 18:52	
Barium	mg/L	ND	0.010	0.00071	02/19/21 18:52	
Beryllium	mg/L	ND	0.0030	0.000046	02/19/21 18:52	
Cadmium	mg/L	ND	0.0025	0.00012	02/19/21 18:52	
Chromium	mg/L	ND	0.010	0.00055	02/19/21 18:52	
Cobalt	mg/L	ND	0.0050	0.00038	02/19/21 18:52	
Lead	mg/L	ND	0.0050	0.000036	02/19/21 18:52	
Lithium	mg/L	ND	0.030	0.00081	02/19/21 18:52	
Molybdenum	mg/L	ND	0.010	0.00069	02/19/21 18:52	
Selenium	mg/L	ND	0.010	0.0016	02/19/21 18:52	
Thallium	mg/L	ND	0.0010	0.00014	02/19/21 18:52	

LABORATORY CONTROL SAMPLE: 3167302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3167303 3167304

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92521583001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	0.00035J	0.1	0.1	0.12	0.11	117	110	75-125	5	20	
Arsenic	mg/L	0.0015J	0.1	0.1	0.11	0.10	106	103	75-125	2	20	
Barium	mg/L	0.036	0.1	0.1	0.14	0.13	104	95	75-125	7	20	
Beryllium	mg/L	0.00029J	0.1	0.1	0.095	0.088	95	88	75-125	7	20	

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QUALITY CONTROL DATA

Project: YATES AMA

Pace Project No.: 92521581

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3167303 3167304													
Parameter	Units	92521583001		MS		MSD		MS		MSD			
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec	% Rec	MSD % Rec	Limits	RPD	Max RPD
Cadmium	mg/L	0.00042J	0.1	0.1	0.10	0.10	102	101	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	1	20		
Cobalt	mg/L	0.0023J	0.1	0.1	0.10	0.10	103	102	75-125	0	20		
Lead	mg/L	0.000088J	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Lithium	mg/L	0.024J	0.1	0.1	0.12	0.11	98	88	75-125	8	20		
Molybdenum	mg/L	0.0016J	0.1	0.1	0.11	0.11	108	108	75-125	1	20		
Selenium	mg/L	0.28	0.1	0.1	0.38	0.37	106	92	75-125	4	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		

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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 601867 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521578010, 92521578011

METHOD BLANK: 3171184 Matrix: Water
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521578010, 92521578011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/23/21 20:30	
Arsenic	mg/L	ND	0.0050	0.00078	02/23/21 20:30	
Barium	mg/L	ND	0.010	0.00071	02/23/21 20:30	
Beryllium	mg/L	ND	0.0030	0.000046	02/23/21 20:30	
Cadmium	mg/L	ND	0.0025	0.00012	02/23/21 20:30	
Chromium	mg/L	ND	0.010	0.00055	02/23/21 20:30	
Cobalt	mg/L	ND	0.0050	0.00038	02/23/21 20:30	
Lead	mg/L	ND	0.0050	0.000036	02/23/21 20:30	
Lithium	mg/L	ND	0.030	0.00081	02/23/21 20:30	
Molybdenum	mg/L	ND	0.010	0.00069	02/23/21 20:30	
Selenium	mg/L	ND	0.010	0.0016	02/23/21 20:30	
Thallium	mg/L	ND	0.0010	0.00014	02/23/21 20:30	

LABORATORY CONTROL SAMPLE: 3171185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171186 3171187

Parameter	Units	MS 92521578009		MSD 3171187		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	Spike Conc.	Spike Conc.	Result							
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Barium	mg/L	0.078	0.1	0.1	0.18	0.18	105	99	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171186												3171187	
Parameter	Units	92521578009 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Cadmium	mg/L	0.00052J	0.1	0.1	0.10	0.10	103	104	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	2	20		
Lithium	mg/L	0.0070J	0.1	0.1	0.10	0.10	93	93	75-125	1	20		
Molybdenum	mg/L	0.0012J	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171188												3171189	
Parameter	Units	92521578011 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20		
Barium	mg/L	0.0057J	0.1	0.1	0.10	0.10	95	97	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	5	20		
Chromium	mg/L	ND	0.1	0.1	0.096	0.099	96	98	75-125	3	20		
Cobalt	mg/L	0.00086J	0.1	0.1	0.093	0.097	92	96	75-125	4	20		
Lead	mg/L	0.000044J	0.1	0.1	0.094	0.098	94	98	75-125	3	20		
Lithium	mg/L	0.010J	0.1	0.1	0.10	0.11	90	96	75-125	5	20		
Molybdenum	mg/L	0.0080J	0.1	0.1	0.10	0.11	95	99	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.086	0.089	86	89	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	3	20		

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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600023 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521583002

METHOD BLANK: 3163248 Matrix: Water
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521583002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/16/21 11:30	

LABORATORY CONTROL SAMPLE: 3163249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3163250 3163251

Parameter	Units	3163250		3163251		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92521578009 Result: ND	0.0025	0.0025	0.0024	0.0023	94	92	75-125	2	20

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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600356 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

METHOD BLANK: 3164655 Matrix: Water
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/18/21 11:24	

LABORATORY CONTROL SAMPLE: 3164656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164657 3164658

Parameter	Units	92521581005		3164658		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	97	96	75-125	1	20

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QUALITY CONTROL DATA

Project: YATES AMA

Pace Project No.: 92521581

QC Batch: 601295

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92521578010, 92521578011

METHOD BLANK: 3168813

Matrix: Water

Associated Lab Samples: 92521578010, 92521578011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/23/21 13:14	

LABORATORY CONTROL SAMPLE: 3168814

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: 3168815 3168816

Parameter	Units	3168815		3168816		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0022	0.0022	88	89	75-125	1	20	

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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 599663 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010

METHOD BLANK: 3161251 Matrix: Water
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 20:16	

LABORATORY CONTROL SAMPLE: 3161252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161253 3161254

Parameter	Units	92521574009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	109	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161255 3161256

Parameter	Units	92521581005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.5	2.7	100	108	90-110	8	10	

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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 599664 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017, 92521583002

METHOD BLANK: 3161257 Matrix: Water
Associated Lab Samples: 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017, 92521583002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 15:24	

LABORATORY CONTROL SAMPLE: 3161258

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161259 3161260

Parameter	Units	92521578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Fluoride	mg/L	0.066J	2.5	2.5	2.4	2.5	93	99	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161575 3161576

Parameter	Units	92521143010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Fluoride	mg/L	0.21	2.5	2.5	2.3	2.5	84	91	90-110	7	10 M1	

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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600235 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92521578010, 92521578011

METHOD BLANK: 3164171 Matrix: Water
Associated Lab Samples: 92521578010, 92521578011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/16/21 14:16	

LABORATORY CONTROL SAMPLE: 3164172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164173 3164174

Parameter	Units	92522138001		3164173		3164174		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result					
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	97	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164175 3164176

Parameter	Units	92521578011		3164175		3164176		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result					
Fluoride	mg/L	0.068J	2.5	2.5	2.6	2.6	100	100	90-110	1	10	

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QUALIFIERS

Project: YATES AMA

Pace Project No.: 92521581

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521578002	YGWA-14S (021021)				
92521581003	YGWA-5I (020821)				
92521581004	YGWA-39 (021021)				
92521581005	YGWA-40 (021021)				
92521581007	YGWA-20S (020921)				
92521581008	YGWA-4I(020921)				
92521581009	YGWA-17S(020921)				
92521581010	YGWA-18S(020921)				
92521581011	YGWA-18I(020921)				
92521581012	YGWA-21I(020921)				
92521583002	YGWA-2I(021021)				
92521581013	YGWA-3I(021021)				
92521581014	YGWA-3D(021021)				
92521581015	YGWA-30I(021121)				
92521578010	YGWA-1I (021221)				
92521578011	YGWA-1D (021221)				
92521578001	EB-02 (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578002	YGWA-14S (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578003	DUP-1 (021021)	EPA 3005A	601867	EPA 6020B	601989
92521581001	YGWA-5D (020821)	EPA 3005A	600633	EPA 6020B	600737
92521581002	DUP-01(020821)	EPA 3005A	600633	EPA 6020B	600737
92521581003	YGWA-5I (020821)	EPA 3005A	600633	EPA 6020B	600737
92521581004	YGWA-39 (021021)	EPA 3005A	600633	EPA 6020B	600737
92521581005	YGWA-40 (021021)	EPA 3005A	600633	EPA 6020B	600737
92521581006	FB-01(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581007	YGWA-20S (020921)	EPA 3005A	600633	EPA 6020B	600737
92521581008	YGWA-4I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581009	YGWA-17S(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581010	YGWA-18S(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581011	YGWA-18I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581012	YGWA-21I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521583002	YGWA-2I(021021)	EPA 3005A	600920	EPA 6020B	601040
92521581013	YGWA-3I(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581014	YGWA-3D(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581015	YGWA-30I(021121)	EPA 3005A	600633	EPA 6020B	600737
92521581016	FB-01(021121)	EPA 3005A	600633	EPA 6020B	600737
92521581017	EB-01(021121)	EPA 3005A	600633	EPA 6020B	600737
92521578010	YGWA-1I (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578011	YGWA-1D (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578001	EB-02 (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578002	YGWA-14S (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578003	DUP-1 (021021)	EPA 7470A	600023	EPA 7470A	600226
92521581001	YGWA-5D (020821)	EPA 7470A	600356	EPA 7470A	600864
92521581002	DUP-01(020821)	EPA 7470A	600356	EPA 7470A	600864
92521581003	YGWA-5I (020821)	EPA 7470A	600356	EPA 7470A	600864

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521581004	YGWA-39 (021021)	EPA 7470A	600356	EPA 7470A	600864
92521581005	YGWA-40 (021021)	EPA 7470A	600356	EPA 7470A	600864
92521581006	FB-01(021021)	EPA 7470A	600356	EPA 7470A	600864
92521581007	YGWA-20S (020921)	EPA 7470A	600356	EPA 7470A	600864
92521581008	YGWA-4I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581009	YGWA-17S(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581010	YGWA-18S(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581011	YGWA-18I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581012	YGWA-21I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521583002	YGWA-2I(021021)	EPA 7470A	600023	EPA 7470A	600226
92521581013	YGWA-3I(021021)	EPA 7470A	600356	EPA 7470A	600864
92521581014	YGWA-3D(021021)	EPA 7470A	600356	EPA 7470A	600864
92521581015	YGWA-30I(021121)	EPA 7470A	600356	EPA 7470A	600864
92521581016	FB-01(021121)	EPA 7470A	600356	EPA 7470A	600864
92521581017	EB-01(021121)	EPA 7470A	600356	EPA 7470A	600864
92521578010	YGWA-1I (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578011	YGWA-1D (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578001	EB-02 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578002	YGWA-14S (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578003	DUP-1 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581001	YGWA-5D (020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581002	DUP-01(020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581003	YGWA-5I (020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581004	YGWA-39 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581005	YGWA-40 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581006	FB-01(021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581007	YGWA-20S (020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581008	YGWA-4I(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581009	YGWA-17S(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581010	YGWA-18S(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581011	YGWA-18I(020921)	EPA 300.0 Rev 2.1 1993	599664		
92521581012	YGWA-21I(020921)	EPA 300.0 Rev 2.1 1993	599664		
92521583002	YGWA-2I(021021)	EPA 300.0 Rev 2.1 1993	599664		
92521581013	YGWA-3I(021021)	EPA 300.0 Rev 2.1 1993	599664		
92521581014	YGWA-3D(021021)	EPA 300.0 Rev 2.1 1993	599664		
92521581015	YGWA-30I(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521581016	FB-01(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521581017	EB-01(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521578010	YGWA-1I (021221)	EPA 300.0 Rev 2.1 1993	600235		
92521578011	YGWA-1D (021221)	EPA 300.0 Rev 2.1 1993	600235		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 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# : 92521581

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 21 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 21

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?

Yes No

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Item A

Section B
Required Project Information:

Client Information: Georgia Power
 1070 Bridge Mill Ave
 Marietta, GA 30114
 Project Name: Yates Area
 Project #:
 Requested Due Date:
 Purchase Order #:
 Price Quote:
 Price Profile #:

Section C
Invoicing Information:

Attention:
 Company Name:
 Address:
 Price Quote:
 Price Profile #:
 Requested Analytical Protocol (TPM):

SAMPLE ID
 One Character per box.
 (A-Z, 0-9, /, .)

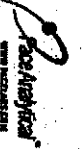
MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)

ITEM	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyse Test	Residual Chlorine (Y/N)
			START DATE	END DATE					
13	Y600A-SD	WT	08/29	1645	4	Unpreserved	App IV Metals Fluoride RAD 8315/8320	GA G252561	
14		WT							
15		WT							
16		WT							
17		WT							
18		WT							
19		WT							
20		WT							
21									
22									
23									
24									

RELEASED BY / ACCEPTED BY	DATE	TIME	DATE	TIME
<i>Charles Hank</i>	2/10/21	1710		

SAMPLER NAME AND SIGNATURE
 PRINT NAME OF SAMPLER: Peter Hymowitz
 SIGNATURE OF SAMPLER: *Peter Hymowitz*
 DATE SIGNED: 02/10/2021

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.

Section A
Client Information:

Company: Georgia Power
 Project: 1070 Bridge Mill Ave
 City: ATLANTA, GA 30314
 Phone: (770) 394-5525
 Fax: [Blank]

Section B
Requested Project Information:

Report To: Becky Steiner
 Copy To: [Blank]
 Project Name: YAMA
 Project #: [Blank]
 Purchase Order #: YAMA
 Project #: [Blank]

Section C
Invoice Information:

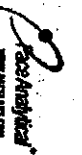
Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 POC Name: Kevin Henning
 POC Email: kevin.henning@ge.com
 POC Phone: 10940

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								RAD 9315/9320	Residual Chlorine (Y/N)	
				START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			
1	DUP-01(620821)	WT	WT	2.8.21			4	✓	✓	✓							✓	
2	YGMWA-31	WT	WT	2.9.21	1620		4	✓	✓	✓							✓	
3	YGMWA-39	WT	WT	2.10.21	0936		4	✓	✓	✓							✓	
4	YGMWA-40	WT	WT	2.10.21	1050		12	✓	✓	✓							✓	
5	YGMWA-46	WT	WT	2.10.21	1105		4	✓	✓	✓							✓	
6	YGMWA-30S	WT	WT	2.12.21	1650		4	✓	✓	✓							✓	
7	YGMWA-41	WT	WT															
8	YGMWA-39S	WT	WT															
9	YGMWA-41S	WT	WT															
10	YGMWA-41A	WT	WT															
11	YGMWA-41B	WT	WT															

DATE	TIME	INITIALS	DATE	TIME	INITIALS
2/9/21	1710	Kate Pytkiewicz	2/9/21	1710	[Signature]

Sampler Name: Kate Pytkiewicz
 Signature of Sampler: [Signature]
 Date Signed: 2-9-2021

Received on Ice: [Blank]
 Custody Sealed: [Blank]
 Samples Intact: [Blank]



0009

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:
 Agency: Georgia Power
 Press: 1079 Br/5522 Hill Ave
 City: Dalton, GA 30014
 Phone: (770)394-5526 Fax: [blank]
 Requested Due Date: [blank]

Section B Required Project Information:
 Report To: Becky Seaver
 Copy To: [blank]
 Purchase Order #: [blank]
 Project Name: Yates AMA
 Project #: [blank]

Section C Invoice Information:
 Attention: [blank]
 Company Name: [blank]
 Address: [blank]
 Pace Order: [blank]
 Pace Project Manager: Kevin Herring@pacestate.com
 Pace Profile #: 10940

ITEM #	SAMPLE ID One character per box. (A-Z, 0-9, /)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		PRESERVATIVES								ANALYSIS REQUIRED				Residual Chlorine (Y/N)
				START DATE	END DATE	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2B2O4	Methanol	Other	App IV Metals	Fluoride	RAD 9315/9320			

1	YGWA-41 (020921)	WT	2/9 1990		4	X	X								X	X	X			PH 6.00 62521561
2	YGWA-17S (010921)	WT	2/9 1115		4	X	X								X	X	X			PH 5.02
3	YGWA-18S (020921)	WT	2/9 1335		9	X	X								X	X	X			PH 6.12 5.43
4	YGWA-181 (020921)	WT	2/9 1440		4	X	X								X	X	X			PH 6.95
5	YGWA-211 (010921)	WT	2/9 1610		4	X	X								X	X	X			PH 6.95
6	YGWA-211 (020921)	WT	2/9 156		4	X	X								X	X	X			PH 6.95

Section D Laboratory Information:
 Received on: [blank] (Y/N)
 Custody Sealed: [blank] (Y/N)
 Cooler: [blank] (Y/N)
 Samples Intact: [blank] (Y/N)

PRINT NAME OF SAMPLES: [blank]
 SIGNATURE OF ANALYST: [blank]
 DATE: [blank]

TEMP in C: [blank]



Section A

Client Information:
 Agency: Georgia Power
 Address: 1070 Exchange Mill Ave
 City: Mon, GA 30114
 Phone: (770) 334-6325
 Fax:

Section B

Requested Project Information:
 Report To: Becky Steiner
 Copy To:

Section C

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Order:
 Pace Project Manager: Kevin.Beeching@worldnet.com
 Pace Profile #: 10840

CHAIN-OF-CUSTODY / Analytical Request Document

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

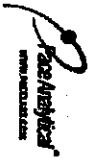
Page : 1 Of 2

GC&B

ITEM #	DESCRIPTION	WEIGHT	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ADDITIONAL TEST	RESIDUAL CHLORINE (Y/N)		
			START DATE	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			APP IV METALS	FLUORIDE
1	YUBA-3I (02021)	WT	1/10	1/10		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2	YUBA-3D (02021)	WT	2/10	2/15		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3		WT															
4		WT															
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44		WT															
45		WT															

92521561
 PH 7.58
 PH 7.81
 603
 814

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A
 Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: 478-394-4536
 Project Name: Yaws AP-2
 Requested Date: 2-11-21

Section B
 Project Information:

Report To: Betty Sawyer
 Copy To:
 Purchase Order #: Yaws AP-2
 Project #:

Section C
 Media Information:

Analyst:
 Company Name:
 Address:
 Phone Order:
 Pace Project Manager: levin.hetting@quasidata.com
 Pace Project #: 10840

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives							Analytical Test	Residual Chlorine (Y/N)				
			START DATE	END DATE	START TIME	END TIME		Unpreserved	H2804	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other			
1							4													
2							4													
3							4													
4							4													
5							4													
6							4													
7							4													
8							4													
9							4													
10							4													
11							4													
12							4													
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48							4													
49							4													
50							4													

SAMPLER USE AND SIGNATURE

PRINT Name of SAMPLER: Kyle Spencer
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 2-11-21

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

[Handwritten Signature]
[Handwritten Signature]
 2-11-21

February 25, 2021

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

RE: Project: YATES AP-2
Pace Project No.: 92521578

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES AP-2

Pace Project No.: 92521578

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES AP-2

Pace Project No.: 92521578

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521578004	YGWC-26S (021021)	Water	02/10/21 10:00	02/10/21 17:10
92521578005	YGWC-26I (021021)	Water	02/10/21 11:00	02/10/21 17:10
92521578006	YGWC-27S (021021)	Water	02/10/21 12:10	02/10/21 17:10
92521578007	YGWC-27I (021021)	Water	02/10/21 13:15	02/10/21 17:10
92521578008	DUP-2 (021021)	Water	02/10/21 00:00	02/10/21 17:10
92521578009	YGWC-28I(021121)	Water	02/11/21 09:40	02/11/21 13:03
92521578012	YGWC-28S (021221)	Water	02/12/21 15:20	02/12/21 17:10
92521578013	YGWC-29I (021221)	Water	02/12/21 14:20	02/12/21 17:10
92521578014	EB-02 (021221)	Water	02/12/21 15:30	02/12/21 17:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AP-2
Pace Project No.: 92521578

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92521578004	YGWC-26S (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578005	YGWC-26I (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578006	YGWC-27S (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578007	YGWC-27I (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578008	DUP-2 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578009	YGWC-28I(021121)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578012	YGWC-28S (021221)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92521578013	YGWC-29I (021221)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92521578014	EB-02 (021221)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2

Pace Project No.: 92521578

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521578004	YGWC-26S (021021)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	5.18	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.031	mg/L	0.010	02/23/21 20:58	
EPA 6020B	Beryllium	0.00013J	mg/L	0.0030	02/23/21 20:58	
EPA 6020B	Chromium	0.00091J	mg/L	0.010	02/23/21 20:58	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	02/23/21 20:58	
EPA 6020B	Lead	0.000050J	mg/L	0.0050	02/23/21 20:58	
92521578005	YGWC-26I (021021)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	5.96	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.060	mg/L	0.010	02/23/21 21:04	
EPA 6020B	Chromium	0.00065J	mg/L	0.010	02/23/21 21:04	
EPA 6020B	Lead	0.000051J	mg/L	0.0050	02/23/21 21:04	
EPA 6020B	Lithium	0.0067J	mg/L	0.030	02/23/21 21:04	
EPA 6020B	Selenium	0.0026J	mg/L	0.010	02/23/21 21:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	02/12/21 23:09	
92521578006	YGWC-27S (021021)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.21	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.088	mg/L	0.010	02/23/21 21:10	
EPA 6020B	Beryllium	0.000066J	mg/L	0.0030	02/23/21 21:10	
EPA 6020B	Chromium	0.0027J	mg/L	0.010	02/23/21 21:10	
EPA 6020B	Cobalt	0.0025J	mg/L	0.0050	02/23/21 21:10	
EPA 6020B	Lead	0.00072J	mg/L	0.0050	02/23/21 21:10	
EPA 6020B	Lithium	0.00081J	mg/L	0.030	02/23/21 21:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.084J	mg/L	0.10	02/12/21 23:23	
92521578007	YGWC-27I (021021)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.29	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.080	mg/L	0.010	02/23/21 21:15	
EPA 6020B	Beryllium	0.00014J	mg/L	0.0030	02/23/21 21:15	
EPA 6020B	Cobalt	0.0048J	mg/L	0.0050	02/23/21 21:15	
EPA 6020B	Lithium	0.0067J	mg/L	0.030	02/23/21 21:15	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	02/23/21 21:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/12/21 23:38	
92521578008	DUP-2 (021021)					
EPA 6020B	Barium	0.062	mg/L	0.010	02/23/21 21:21	
EPA 6020B	Chromium	0.00068J	mg/L	0.010	02/23/21 21:21	
EPA 6020B	Lead	0.000049J	mg/L	0.0050	02/23/21 21:21	
EPA 6020B	Lithium	0.0073J	mg/L	0.030	02/23/21 21:21	
EPA 6020B	Selenium	0.0024J	mg/L	0.010	02/23/21 21:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2

Pace Project No.: 92521578

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521578009	YGWC-28I(021121)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.57	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.078	mg/L	0.010	02/23/21 21:38	
EPA 6020B	Cadmium	0.00052J	mg/L	0.0025	02/23/21 21:38	
EPA 6020B	Lithium	0.0070J	mg/L	0.030	02/23/21 21:38	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/23/21 21:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.066J	mg/L	0.10	02/12/21 18:52	
92521578012	YGWC-28S (021221)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.60	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.057	mg/L	0.010	02/23/21 22:24	
EPA 6020B	Cadmium	0.00048J	mg/L	0.0025	02/23/21 22:24	
EPA 6020B	Lead	0.000052J	mg/L	0.0050	02/23/21 22:24	
EPA 6020B	Lithium	0.0053J	mg/L	0.030	02/23/21 22:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	02/16/21 19:46	
92521578013	YGWC-29I (021221)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.24	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.21	mg/L	0.010	02/23/21 22:30	
EPA 6020B	Cobalt	0.00094J	mg/L	0.0050	02/23/21 22:30	
EPA 6020B	Lead	0.000066J	mg/L	0.0050	02/23/21 22:30	
EPA 6020B	Molybdenum	0.00083J	mg/L	0.010	02/23/21 22:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	02/16/21 20:01	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-26S (021021) **Lab ID: 92521578004** Collected: 02/10/21 10:00 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	5.18	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:58	7440-38-2	
Barium	0.031	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:58	7440-39-3	
Beryllium	0.00013J	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:58	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:58	7440-43-9	
Chromium	0.00091J	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:58	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:58	7440-48-4	
Lead	0.000050J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:58	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 20:58	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:49	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:54	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-26I (021021) Lab ID: 92521578005 Collected: 02/10/21 11:00 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	5.96	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 21:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 21:04	7440-38-2	
Barium	0.060	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 21:04	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 21:04	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 21:04	7440-43-9	
Chromium	0.00065J	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 21:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 21:04	7440-48-4	
Lead	0.000051J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 21:04	7439-92-1	
Lithium	0.0067J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 21:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 21:04	7439-98-7	
Selenium	0.0026J	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 21:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 21:04	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:51	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.050J	mg/L	0.10	0.050	1		02/12/21 23:09	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2

Pace Project No.: 92521578

Sample: YGWC-27S (021021) **Lab ID: 92521578006** Collected: 02/10/21 12:10 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	6.21	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 21:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 21:10	7440-38-2	
Barium	0.088	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 21:10	7440-39-3	
Beryllium	0.00066J	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 21:10	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 21:10	7440-43-9	
Chromium	0.0027J	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 21:10	7440-47-3	
Cobalt	0.0025J	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 21:10	7440-48-4	
Lead	0.00072J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 21:10	7439-92-1	
Lithium	0.00081J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 21:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 21:10	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 21:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 21:10	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:54	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.084J	mg/L	0.10	0.050	1		02/12/21 23:23	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-271 (021021) **Lab ID: 92521578007** Collected: 02/10/21 13:15 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	6.29	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 21:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 21:15	7440-38-2	
Barium	0.080	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 21:15	7440-39-3	
Beryllium	0.00014J	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 21:15	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 21:15	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 21:15	7440-47-3	
Cobalt	0.0048J	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 21:15	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 21:15	7439-92-1	
Lithium	0.0067J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 21:15	7439-93-2	
Molybdenum	0.0016J	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 21:15	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 21:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 21:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:56	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.055J	mg/L	0.10	0.050	1		02/12/21 23:38	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: DUP-2 (021021) Lab ID: 92521578008 Collected: 02/10/21 00:00 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 21:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 21:21	7440-38-2	
Barium	0.062	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 21:21	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 21:21	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 21:21	7440-43-9	
Chromium	0.00068J	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 21:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 21:21	7440-48-4	
Lead	0.000049J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 21:21	7439-92-1	
Lithium	0.0073J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 21:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 21:21	7439-98-7	
Selenium	0.0024J	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 21:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 21:21	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:59	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 23:52	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AP-2

Pace Project No.: 92521578

Sample: YGWC-28(021121) **Lab ID: 92521578009** Collected: 02/11/21 09:40 Received: 02/11/21 13:03 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		02/23/21 08:11		
pH	6.57	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 21:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 21:38	7440-38-2	
Barium	0.078	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 21:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 21:38	7440-41-7	
Cadmium	0.00052J	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 21:38	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 21:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 21:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 21:38	7439-92-1	
Lithium	0.0070J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 21:38	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 21:38	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 21:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 21:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:25	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.066J	mg/L	0.10	0.050	1		02/12/21 18:52	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-28S (021221) **Lab ID: 92521578012** Collected: 02/12/21 15:20 Received: 02/12/21 17:10 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		02/23/21 08:11		
pH	6.60	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:24	7440-38-2	
Barium	0.057	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:24	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:24	7440-41-7	
Cadmium	0.00048J	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:24	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:24	7440-48-4	
Lead	0.000052J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:24	7439-92-1	
Lithium	0.0053J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:24	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 14:00	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.069J	mg/L	0.10	0.050	1		02/16/21 19:46	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-29I (021221) Lab ID: 92521578013 Collected: 02/12/21 14:20 Received: 02/12/21 17:10 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		02/23/21 08:11		
pH	6.24	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:30	7440-38-2	
Barium	0.21	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:30	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:30	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:30	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:30	7440-47-3	
Cobalt	0.00094J	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:30	7440-48-4	
Lead	0.000066J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:30	7439-93-2	
Molybdenum	0.00083J	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:30	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 14:02	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.17	mg/L	0.10	0.050	1		02/16/21 20:01	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: EB-02 (021221) **Lab ID: 92521578014** Collected: 02/12/21 15:30 Received: 02/12/21 17:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:53	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:53	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:53	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:53	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:53	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 14:04	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/16/21 20:16	16984-48-8	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 601867 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008, 92521578009, 92521578012, 92521578013, 92521578014

METHOD BLANK: 3171184 Matrix: Water
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008, 92521578009, 92521578012, 92521578013, 92521578014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/23/21 20:30	
Arsenic	mg/L	ND	0.0050	0.00078	02/23/21 20:30	
Barium	mg/L	ND	0.010	0.00071	02/23/21 20:30	
Beryllium	mg/L	ND	0.0030	0.000046	02/23/21 20:30	
Cadmium	mg/L	ND	0.0025	0.00012	02/23/21 20:30	
Chromium	mg/L	ND	0.010	0.00055	02/23/21 20:30	
Cobalt	mg/L	ND	0.0050	0.00038	02/23/21 20:30	
Lead	mg/L	ND	0.0050	0.000036	02/23/21 20:30	
Lithium	mg/L	ND	0.030	0.00081	02/23/21 20:30	
Molybdenum	mg/L	ND	0.010	0.00069	02/23/21 20:30	
Selenium	mg/L	ND	0.010	0.0016	02/23/21 20:30	
Thallium	mg/L	ND	0.0010	0.00014	02/23/21 20:30	

LABORATORY CONTROL SAMPLE: 3171185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171186 3171187

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20		
Barium	mg/L	0.078	0.1	0.1	0.18	0.18	105	99	75-125	3	20		

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171186												3171187	
Parameter	Units	92521578009 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Beryllium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	2	20		
Cadmium	mg/L	0.00052J	0.1	0.1	0.10	0.10	103	104	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	2	20		
Lithium	mg/L	0.0070J	0.1	0.1	0.10	0.10	93	93	75-125	1	20		
Molybdenum	mg/L	0.0012J	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171188												3171189	
Parameter	Units	92521578011 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20		
Barium	mg/L	0.0057J	0.1	0.1	0.10	0.10	95	97	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	5	20		
Chromium	mg/L	ND	0.1	0.1	0.096	0.099	96	98	75-125	3	20		
Cobalt	mg/L	0.00086J	0.1	0.1	0.093	0.097	92	96	75-125	4	20		
Lead	mg/L	0.000044J	0.1	0.1	0.094	0.098	94	98	75-125	3	20		
Lithium	mg/L	0.010J	0.1	0.1	0.10	0.11	90	96	75-125	5	20		
Molybdenum	mg/L	0.0080J	0.1	0.1	0.10	0.11	95	99	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.086	0.089	86	89	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	3	20		

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 600023 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008, 92521578009

METHOD BLANK: 3163248 Matrix: Water
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008, 92521578009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/16/21 11:30	

LABORATORY CONTROL SAMPLE: 3163249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3163250 3163251

Parameter	Units	3163250		3163251		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92521578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	94	92	75-125	2	20

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 601295 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578012, 92521578013, 92521578014

METHOD BLANK: 3168813 Matrix: Water
Associated Lab Samples: 92521578012, 92521578013, 92521578014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/23/21 13:14	

LABORATORY CONTROL SAMPLE: 3168814

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: 3168815 3168816

Parameter	Units	3168815		3168816		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0022	0.0022	88	89	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 599663 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008

METHOD BLANK: 3161251 Matrix: Water
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 20:16	

LABORATORY CONTROL SAMPLE: 3161252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161253 3161254

Parameter	Units	3161253		3161254		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92521574009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	109	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161255 3161256

Parameter	Units	3161255		3161256		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92521581005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Fluoride	mg/L	ND	2.5	2.5	2.5	2.7	100	108	90-110	8	10	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AP-2

Pace Project No.: 92521578

QC Batch: 599664

Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92521578009

METHOD BLANK: 3161257

Matrix: Water

Associated Lab Samples: 92521578009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 15:24	

LABORATORY CONTROL SAMPLE: 3161258

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161259 3161260

Parameter	Units	92521578009		3161259		3161260		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Fluoride	mg/L	0.066J	0.066J	2.5	2.5	2.4	2.5	93	99	90-110	6	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161575 3161576

Parameter	Units	92521143010		3161575		3161576		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Fluoride	mg/L	0.21	0.21	2.5	2.5	2.3	2.5	84	91	90-110	7	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

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 600235 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92521578012, 92521578013, 92521578014

METHOD BLANK: 3164171 Matrix: Water
Associated Lab Samples: 92521578012, 92521578013, 92521578014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/16/21 14:16	

LABORATORY CONTROL SAMPLE: 3164172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164173 3164174

Parameter	Units	3164173		3164174		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result							
Fluoride	mg/L	92522138001 ND	MS Spike Conc. 2.5	MSD Spike Conc. 2.5	MS Result 2.4	MSD Result 2.5	95	97	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164175 3164176

Parameter	Units	3164175		3164176		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result							
Fluoride	mg/L	92521578011 0.068J	MS Spike Conc. 2.5	MSD Spike Conc. 2.5	MS Result 2.6	MSD Result 2.6	100	100	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YATES AP-2

Pace Project No.: 92521578

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2
Pace Project No.: 92521578

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521578004	YGWC-26S (021021)				
92521578005	YGWC-26I (021021)				
92521578006	YGWC-27S (021021)				
92521578007	YGWC-27I (021021)				
92521578009	YGWC-28I(021121)				
92521578012	YGWC-28S (021221)				
92521578013	YGWC-29I (021221)				
92521578004	YGWC-26S (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578005	YGWC-26I (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578006	YGWC-27S (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578007	YGWC-27I (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578008	DUP-2 (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578009	YGWC-28I(021121)	EPA 3005A	601867	EPA 6020B	601989
92521578012	YGWC-28S (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578013	YGWC-29I (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578014	EB-02 (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578004	YGWC-26S (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578005	YGWC-26I (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578006	YGWC-27S (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578007	YGWC-27I (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578008	DUP-2 (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578009	YGWC-28I(021121)	EPA 7470A	600023	EPA 7470A	600226
92521578012	YGWC-28S (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578013	YGWC-29I (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578014	EB-02 (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578004	YGWC-26S (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578005	YGWC-26I (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578006	YGWC-27S (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578007	YGWC-27I (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578008	DUP-2 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578009	YGWC-28I(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521578012	YGWC-28S (021221)	EPA 300.0 Rev 2.1 1993	600235		
92521578013	YGWC-29I (021221)	EPA 300.0 Rev 2.1 1993	600235		
92521578014	EB-02 (021221)	EPA 300.0 Rev 2.1 1993	600235		

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolina's Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92521578

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/10/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer:

IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 21 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 21

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Section B
 Section C

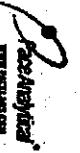
Client Information: Georgia Power, 1070 Bridge Hill Ave, Dalton, GA 30714
 Report To: Becky Steiner
 Copy To:
 Project Name: Yates AP-2
 Project #:
 Purchase Order #:
 Address:
 Company Name:
 State: GA
 City: Dalton
 Zip: 30714
 Contact: (770) 394-6526
 Fax:
 Invoiced Date:
 Requested Analysis: Residual Chlorine (Y/N)
 State: GA
 City: Dalton
 Zip: 30714
 Project Profile #: 10940
 Project Profile Manager: bevel.herring@epscorps.com

ITEM #	MATERIAL	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (Y/N)	PH	
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	YGWA-115	WT																
2	YGWA-115	WT																
3	YGWA-21	WT																
4	YGWA-21	WT																
5	YGWA-307	WT	EB-02	11/30		4												
6	YGWA-115	WT		11/30		4												
7	YGWA-21	WT	Dop-1			4												
8	YGWA-285	WT		12/00		4												
9	YGWA-281	WT		11/00		4												
10	YGWA-275	WT		12/10		4												
11	YGWA-271	WT		1/31/15		4												
12	YGWA-285	WT	Dop-2			4												

ADDITIONAL COMMENTS:
 RECEIVED BY / DATE: [Signature] [Date]
 ACCEPTED BY / DATE: [Signature] [Date]
 ANALYST'S COMMENTS:
 SAMPLE ID: 92521578
 PH: 5.35
 PH: 5.18
 PH: 5.18
 PH: 5.96
 PH: 6.21
 PH: 6.29

SAMPLER NAME AND SIGNATURE: [Signature]
 PRINT NAME OF SAMPLER: [Name]
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED: 09/10/2021

TEMP in C: []
 Received on Ice [] (Y/N)
 Custody Sealed [] (Y/N)
 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.

Section A

Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: 404-534-5326
 Fax: _____

Section B

Project Information:
 Report To: Betty Shriver
 Copy To: _____
 Project Name: Yans AP-2
 Project #: _____

Section C

Invoked Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Phone Number: _____
 Project #: 10840

Page: 1 of 1
0022

ITEM #	SAMPLE ID <i>One character per box. (A-Z, 0-9 / -)</i> Sample IDs must be unique	MATRIX CODE (see VRID codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	App IV Metals	Fluoride	RAD 0315/0320	Residual Chlorine (Y/N)
				START DATE	END DATE							
1	YONG-281 (02121)	WT	WT	02/11/09	02/11/09	17.4	Unpreserved	X	X	X		
2		WT					H2SO4					
3		WT					HNO3					
4		WT					HCl					
5		WT					NaOH					
6		WT					Na2SO3					
7		WT					Methanol					
8		WT					Other					
9		WT										
10		WT										

DATE	TIME	INITIALS	SIGNATURE	DATE	TIME	INITIALS	SIGNATURE	DATE	TIME	INITIALS	SIGNATURE	TEMP In C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)	
												TEMP In C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)	
			<i>[Signature]</i>				<i>[Signature]</i>										
			<i>[Signature]</i>				<i>[Signature]</i>										

PH=6.57
A252578



CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Client Information:
 Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: GA 30114
 Phone: (770)384-5525
 Fax: [Blank]
 Project Name: [Blank]
 Project #: [Blank]

Section B
 Required Project Information:
 Report To: Becky Steever
 Copy To: [Blank]
 Purchase Order #: [Blank]
 Project Name: [Blank]
 Project #: [Blank]

Section C
 Invoicing Information:
 Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Page Order: [Blank]
 Page Project Manager: kevin.heiting@paceanalytics.com
 Page Profile #: 10840

MATERIALS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	Residual Chlorine (Y/N)				
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol			Other			
YUMA-1-E	WT	WT	2/12/15			2	X	X											
YUMA-1-T	WT	WT	2/12/15			2	X	X											
YUMA-1-U	WT	WT																	
YUMA-1-V	WT	WT																	
YUMA-1-W	WT	WT																	
YUMA-1-X	WT	WT																	
YUMA-1-Y	WT	WT																	
YUMA-1-Z	WT	WT																	

Additional Comments: [Blank]

Collected by: [Signature]

Date: 2/12/15

Temp in C: 25

Received on Ice (Y/N): Y

Custody Sealed (Y/N): N

Cooler (Y/N): N

Samples Intact (Y/N): Y

Project Name of Sample: [Blank]

Signature: [Signature]

Date: 2/12/15

March 11, 2021

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

RE: Project: YATES AMA RADS
Pace Project No.: 92521568

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES AMA RADS
Pace Project No.: 92521568

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES AMA RADS

Pace Project No.: 92521568

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521568001	YGWA-5D (020821)	Water	02/08/21 16:45	02/10/21 17:10
92521568002	DUP-01(020821)	Water	02/08/21 00:00	02/10/21 17:10
92521568003	YGWA-5I (020821)	Water	02/08/21 16:20	02/10/21 17:10
92521568004	YGWA-39 (021021)	Water	02/10/21 09:30	02/10/21 17:10
92521568005	YGWA-40 (021021)	Water	02/10/21 10:50	02/10/21 17:10
92521568006	FB-01(021021)	Water	02/10/21 11:05	02/10/21 17:10
92521568007	YGWA-20S (020921)	Water	02/09/21 16:50	02/10/21 17:10
92521568008	YGWA-4I(020921)	Water	02/09/21 09:50	02/10/21 17:10
92521568009	YGWA-17S(020921)	Water	02/09/21 11:15	02/10/21 17:10
92521568010	YGWA-18S(020921)	Water	02/09/21 13:25	02/10/21 17:10
92521568011	YGWA-18I(020921)	Water	02/09/21 14:00	02/10/21 17:10
92521568012	YGWA-21I(020921)	Water	02/09/21 16:10	02/10/21 17:10
92521568013	YGWA-3I(021021)	Water	02/10/21 16:40	02/11/21 13:03
92521568014	YGWA-3D(021021)	Water	02/10/21 17:25	02/11/21 13:03
92521568015	YGWA-30I(021121)	Water	02/11/21 09:50	02/11/21 13:03
92521568016	FB-01(021121)	Water	02/11/21 10:00	02/11/21 13:03
92521568017	EB-01(021121)	Water	02/11/21 12:05	02/11/21 13:03
92521568018	YGWA-40 (021021) MS	Water	02/10/21 10:50	02/10/21 17:10
92521568019	YGWA-40 (021021) MSD	Water	02/10/21 10:50	02/10/21 17:10
92521567001	EB-02 (021021)	Water	02/10/21 11:30	02/10/21 17:10
92521567003	DUP-1 (021021)	Water	02/10/21 00:00	02/10/21 17:10
92521567002	YGWA-14S (021021)	Water	02/10/21 08:50	02/10/21 17:10
92521567010	YGWA-1I (021221)	Water	02/12/21 13:20	02/12/21 17:10
92521567011	YGWA-1D (021221)	Water	02/12/21 11:55	02/12/21 17:10
92521567017	YGWA-1D (021221) MS	Water	02/12/21 11:55	02/12/21 17:10
92521567018	YGWA-1D (021221) MSD	Water	02/12/21 11:55	02/12/21 17:10
92521572002	YGWA-2I(021021)	Water	02/10/21 12:40	02/10/21 17:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521568001	YGWA-5D (020821)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568002	DUP-01(020821)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568003	YGWA-5I (020821)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568004	YGWA-39 (021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568005	YGWA-40 (021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568006	FB-01(021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568007	YGWA-20S (020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568008	YGWA-4I(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568009	YGWA-17S(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568010	YGWA-18S(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568011	YGWA-18I(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568012	YGWA-21I(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568013	YGWA-3I(021021)	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521568014	YGWA-3D(021021)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521568015	YGWA-30I(021121)	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568016	FB-01(021121)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92521568017	EB-01(021121)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521568018	YGWA-40 (021021) MS	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568019	YGWA-40 (021021) MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92521567001	EB-02 (021021)	EPA 9320	VAL	1	PASI-PA
		EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567003	DUP-1 (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	MK1	1	PASI-PA
92521567002	YGWA-14S (021021)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521567010	YGWA-1I (021221)	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567011	YGWA-1D (021221)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92521567017	YGWA-1D (021221) MS	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521567018	YGWA-1D (021221) MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YATES AMA RADS

Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521572002	YGWA-2I(021021)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568001	YGWA-5D (020821)					
EPA 9315	Radium-226	2.30 ± 0.514 (0.306) C:89% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.591 ± 0.501 (1.00) C:79% T:67%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	2.89 ± 1.02 (1.31)	pCi/L		03/05/21 14:00	
92521568002	DUP-01(020821)					
EPA 9315	Radium-226	0.171 ± 0.133 (0.235) C:92% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.0142 ± 0.351 (0.815) C:80% T:79%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.185 ± 0.484 (1.05)	pCi/L		03/05/21 14:00	
92521568003	YGWA-5I (020821)					
EPA 9315	Radium-226	0.476 ± 0.249 (0.427) C:90% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.137 ± 0.351 (0.783) C:82% T:79%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.613 ± 0.600 (1.21)	pCi/L		03/05/21 14:00	
92521568004	YGWA-39 (021021)					
EPA 9315	Radium-226	0.363 ± 0.187 (0.306) C:96% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.155 ± 0.298 (0.655) C:87% T:90%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.518 ± 0.485 (0.961)	pCi/L		03/05/21 14:00	

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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568005	YGWA-40 (021021)					
EPA 9315	Radium-226	0.346 ± 0.178 (0.255) C:93% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.437 ± 0.487 (1.02) C:90% T:61%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.783 ± 0.665 (1.28)	pCi/L		03/05/21 14:00	
92521568006	FB-01(021021)					
EPA 9315	Radium-226	0.0756 ± 0.104 (0.217) C:87% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.0378 ± 0.302 (0.696) C:86% T:83%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.113 ± 0.406 (0.913)	pCi/L		03/05/21 14:00	
92521568007	YGWA-20S (020921)					
EPA 9315	Radium-226	0.0222 ± 0.0899 (0.230) C:94% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.262 ± 0.354 (0.756) C:84% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.284 ± 0.444 (0.986)	pCi/L		03/05/21 14:00	
92521568008	YGWA-4I(020921)					
EPA 9315	Radium-226	0.492 ± 0.201 (0.224) C:89% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.134 ± 0.379 (0.848) C:84% T:78%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.626 ± 0.580 (1.07)	pCi/L		03/05/21 14:00	

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SUMMARY OF DETECTION

Project: YATES AMA RADS

Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568009	YGWA-17S(020921)					
EPA 9315	Radium-226	0.0845 ± 0.101 (0.203) C:86% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.444 ± 0.512 (1.08) C:89% T:63%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.529 ± 0.613 (1.28)	pCi/L		03/05/21 14:00	
92521568010	YGWA-18S(020921)					
EPA 9315	Radium-226	0.0536 ± 0.0925 (0.208) C:92% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.205 ± 0.313 (0.676) C:82% T:78%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.259 ± 0.406 (0.884)	pCi/L		03/05/21 14:00	
92521568011	YGWA-18I(020921)					
EPA 9315	Radium-226	0.147 ± 0.123 (0.217) C:89% T:NA	pCi/L		03/05/21 07:48	
EPA 9320	Radium-228	0.167 ± 0.338 (0.745) C:86% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.314 ± 0.461 (0.962)	pCi/L		03/05/21 14:00	
92521568012	YGWA-21I(020921)					
EPA 9315	Radium-226	0.925 ± 0.287 (0.231) C:91% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.315 ± 0.363 (0.763) C:88% T:79%	pCi/L		03/01/21 16:21	
Total Radium Calculation	Total Radium	1.24 ± 0.650 (0.994)	pCi/L		03/05/21 14:00	

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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568013	YGWA-3I(021021)					
EPA 9315	Radium-226	1.10 ± 0.317 (0.250) C:91% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	1.36 ± 0.549 (0.874) C:90% T:68%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	2.46 ± 0.866 (1.12)	pCi/L		03/05/21 14:00	
92521568014	YGWA-3D(021021)					
EPA 9315	Radium-226	1.59 ± 0.397 (0.248) C:91% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	2.06 ± 0.635 (0.822) C:84% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	3.65 ± 1.03 (1.07)	pCi/L		03/05/21 14:00	
92521568015	YGWA-30I(021121)					
EPA 9315	Radium-226	0.0594 ± 0.0766 (0.153) C:94% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.619 ± 0.427 (0.833) C:86% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.678 ± 0.504 (0.986)	pCi/L		03/05/21 14:00	
92521568016	FB-01(021121)					
EPA 9315	Radium-226	0.0929 ± 0.0996 (0.196) C:96% T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	0.419 ± 0.398 (0.821) C:88% T:80%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.512 ± 0.498 (1.02)	pCi/L		03/05/21 14:00	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568017	EB-01(021121)					
EPA 9315	Radium-226	0.0319 ± 0.0775 (0.187) C:87% T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	0.648 ± 0.478 (0.941) C:86% T:67%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.680 ± 0.556 (1.13)	pCi/L		03/05/21 14:00	
92521568018	YGWA-40 (021021) MS					
EPA 9315	Radium-226	102.72 %REC ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	82.38 %REC ± NA (NA) C:NA T:NA	pCi/L		03/01/21 16:20	
92521568019	YGWA-40 (021021) MSD					
EPA 9315	Radium-226	93.67%RE C 9.21RPD ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	62.49 %REC 27.45 RPD ± NA (NA) C:NA T:NA	pCi/L		03/01/21 16:20	
92521567001	EB-02 (021021)					
EPA 9315	Radium-226	0.0550 ± 0.0861 (0.188) C:84% T:NA	pCi/L		03/05/21 07:30	
EPA 9320	Radium-228	-0.0344 ± 0.302 (0.716) C:69% T:90%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.0550 ± 0.388 (0.904)	pCi/L		03/05/21 14:01	
92521567003	DUP-1 (021021)					
EPA 9315	Radium-226	0.0865 ± 0.0955 (0.184) C:82% T:NA	pCi/L		03/05/21 07:30	

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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567003	DUP-1 (021021)					
EPA 9320	Radium-228	0.528 ± 0.390 (0.755) C:71% T:78%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.615 ± 0.486 (0.939)	pCi/L		03/05/21 14:01	
92521567002	YGWA-14S (021021)					
EPA 9315	Radium-226	0.173 ± 0.123 (0.203) C:90% T:NA	pCi/L		03/05/21 07:30	
EPA 9320	Radium-228	0.180 ± 0.339 (0.746) C:73% T:75%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.353 ± 0.462 (0.949)	pCi/L		03/05/21 14:01	
92521567010	YGWA-1I (021221)					
EPA 9315	Radium-226	0.136 ± 0.0809 (0.131) C:94% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.322 ± 0.541 (1.18) C:72% T:83%	pCi/L		03/09/21 17:17	
Total Radium Calculation	Total Radium	0.458 ± 0.622 (1.31)	pCi/L		03/10/21 15:19	
92521567011	YGWA-1D (021221)					
EPA 9315	Radium-226	0.275 ± 0.0990 (0.123) C:95% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.0910 ± 0.322 (0.726) C:81% T:87%	pCi/L		03/09/21 15:27	
Total Radium Calculation	Total Radium	0.366 ± 0.421 (0.849)	pCi/L		03/10/21 14:15	
92521567017	YGWA-1D (021221) MS					
EPA 9315	Radium-226	98.68 %REC ± NA (NA) C:NA T:NA	pCi/L		03/09/21 19:03	

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SUMMARY OF DETECTION

Project: YATES AMA RADS

Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567017	YGWA-1D (021221) MS					
EPA 9320	Radium-228	106.48 %REC ± NA (NA) C:NA T:NA	pCi/L		03/09/21 15:27	
92521567018	YGWA-1D (021221) MSD					
EPA 9315	Radium-226	91.79 %REC 7.24 RPD ± NA (NA) C:NA T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	91.25 %REC 15.40 RPD ± NA (NA) C:NA T:NA	pCi/L		03/09/21 15:28	
92521572002	YGWA-2I(021021)					
EPA 9315	Radium-226	0.209 ± 0.130 (0.198) C:83% T:NA	pCi/L		03/02/21 11:26	
EPA 9320	Radium-228	0.831 ± 0.551 (1.06) C:70% T:78%	pCi/L		02/24/21 15:31	
Total Radium Calculation	Total Radium	1.04 ± 0.681 (1.26)	pCi/L		03/02/21 16:35	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-5D (020821) **Lab ID: 92521568001** Collected: 02/08/21 16:45 Received: 02/10/21 17:10 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	2.30 ± 0.514 (0.306) C:89% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.591 ± 0.501 (1.00) C:79% T:67%	pCi/L	03/01/21 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.89 ± 1.02 (1.31)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: DUP-01(020821) **Lab ID: 92521568002** Collected: 02/08/21 00:00 Received: 02/10/21 17:10 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	0.171 ± 0.133 (0.235) C:92% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0142 ± 0.351 (0.815) C:80% T:79%	pCi/L	03/01/21 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.185 ± 0.484 (1.05)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-5I (020821) **Lab ID: 92521568003** Collected: 02/08/21 16:20 Received: 02/10/21 17:10 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	0.476 ± 0.249 (0.427) C:90% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.137 ± 0.351 (0.783) C:82% T:79%	pCi/L	03/01/21 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.613 ± 0.600 (1.21)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-39 (021021) **Lab ID: 92521568004** Collected: 02/10/21 09:30 Received: 02/10/21 17:10 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	0.363 ± 0.187 (0.306) C:96% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.155 ± 0.298 (0.655) C:87% T:90%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.518 ± 0.485 (0.961)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-40 (021021) **Lab ID: 92521568005** Collected: 02/10/21 10:50 Received: 02/10/21 17:10 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	0.346 ± 0.178 (0.255) C:93% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.437 ± 0.487 (1.02) C:90% T:61%	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.783 ± 0.665 (1.28)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: FB-01(021021) **Lab ID: 92521568006** Collected: 02/10/21 11:05 Received: 02/10/21 17:10 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	0.0756 ± 0.104 (0.217) C:87% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0378 ± 0.302 (0.696) C:86% T:83%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.113 ± 0.406 (0.913)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-20S (020921) **Lab ID: 92521568007** Collected: 02/09/21 16:50 Received: 02/10/21 17:10 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	0.0222 ± 0.0899 (0.230) C:94% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.262 ± 0.354 (0.756) C:84% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.284 ± 0.444 (0.986)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-4I(020921) **Lab ID: 92521568008** Collected: 02/09/21 09:50 Received: 02/10/21 17:10 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	0.492 ± 0.201 (0.224) C:89% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.134 ± 0.379 (0.848) C:84% T:78%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.626 ± 0.580 (1.07)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-17S(020921) **Lab ID: 92521568009** Collected: 02/09/21 11:15 Received: 02/10/21 17:10 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	0.0845 ± 0.101 (0.203) C:86% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.444 ± 0.512 (1.08) C:89% T:63%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.529 ± 0.613 (1.28)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-18S(020921) **Lab ID: 92521568010** Collected: 02/09/21 13:25 Received: 02/10/21 17:10 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	0.0536 ± 0.0925 (0.208) C:92% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.205 ± 0.313 (0.676) C:82% T:78%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.259 ± 0.406 (0.884)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-18I(020921) **Lab ID: 92521568011** Collected: 02/09/21 14:00 Received: 02/10/21 17:10 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	0.147 ± 0.123 (0.217) C:89% T:NA	pCi/L	03/05/21 07:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.167 ± 0.338 (0.745) C:86% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.314 ± 0.461 (0.962)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-211(020921) **Lab ID: 92521568012** Collected: 02/09/21 16:10 Received: 02/10/21 17:10 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	0.925 ± 0.287 (0.231) C:91% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.315 ± 0.363 (0.763) C:88% T:79%	pCi/L	03/01/21 16:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.24 ± 0.650 (0.994)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-3I(021021) **Lab ID: 92521568013** Collected: 02/10/21 16:40 Received: 02/11/21 13:03 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	1.10 ± 0.317 (0.250) C:91% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.36 ± 0.549 (0.874) C:90% T:68%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.46 ± 0.866 (1.12)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-3D(021021) **Lab ID: 92521568014** Collected: 02/10/21 17:25 Received: 02/11/21 13:03 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	1.59 ± 0.397 (0.248) C:91% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.06 ± 0.635 (0.822) C:84% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.65 ± 1.03 (1.07)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-30I(021121) **Lab ID: 92521568015** Collected: 02/11/21 09:50 Received: 02/11/21 13:03 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	0.0594 ± 0.0766 (0.153) C:94% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.619 ± 0.427 (0.833) C:86% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.678 ± 0.504 (0.986)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-01(021121) Lab ID: 92521568016 Collected: 02/11/21 10:00 Received: 02/11/21 13:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0929 ± 0.0996 (0.196) C:96% T:NA	pCi/L	03/05/21 07:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.419 ± 0.398 (0.821) C:88% T:80%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.512 ± 0.498 (1.02)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-01(021121)						
Lab ID: 92521568017						
Collected: 02/11/21 12:05						
Received: 02/11/21 13:03						
Matrix: Water						
PWS:						
Site ID:						
Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0319 ± 0.0775 (0.187) C:87% T:NA	pCi/L	03/05/21 07:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.648 ± 0.478 (0.941) C:86% T:67%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.680 ± 0.556 (1.13)	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-40 (021021) MS **Lab ID: 92521568018** Collected: 02/10/21 10:50 Received: 02/10/21 17:10 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	102.72 %REC ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	82.38 %REC ± NA (NA) C:NA T:NA	pCi/L	03/01/21 16:20	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-40 (021021) MSD **Lab ID: 92521568019** Collected: 02/10/21 10:50 Received: 02/10/21 17:10 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	93.67%REC 9.21RPD ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	62.49 %REC 27.45 RPD ± NA (NA) C:NA T:NA	pCi/L	03/01/21 16:20	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-02 (021021)						
Lab ID: 92521567001						
Collected: 02/10/21 11:30						
Received: 02/10/21 17:10						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0550 ± 0.0861 (0.188) C:84% T:NA	pCi/L	03/05/21 07:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.0344 ± 0.302 (0.716) C:69% T:90%	pCi/L	02/26/21 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0550 ± 0.388 (0.904)	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: DUP-1 (021021) **Lab ID: 92521567003** Collected: 02/10/21 00:00 Received: 02/10/21 17:10 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	0.0865 ± 0.0955 (0.184) C:82% T:NA	pCi/L	03/05/21 07:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.528 ± 0.390 (0.755) C:71% T:78%	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.615 ± 0.486 (0.939)	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-14S (021021) **Lab ID: 92521567002** Collected: 02/10/21 08:50 Received: 02/10/21 17:10 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	0.173 ± 0.123 (0.203) C:90% T:NA	pCi/L	03/05/21 07:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.180 ± 0.339 (0.746) C:73% T:75%	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.353 ± 0.462 (0.949)	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1I (021221) **Lab ID: 92521567010** Collected: 02/12/21 13:20 Received: 02/12/21 17:10 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	0.136 ± 0.0809 (0.131) C:94% T:NA	pCi/L	03/09/21 19:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.322 ± 0.541 (1.18) C:72% T:83%	pCi/L	03/09/21 17:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.458 ± 0.622 (1.31)	pCi/L	03/10/21 15:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1D (021221) **Lab ID: 92521567011** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 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	0.275 ± 0.0990 (0.123) C:95% T:NA	pCi/L	03/09/21 19:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0910 ± 0.322 (0.726) C:81% T:87%	pCi/L	03/09/21 15:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.366 ± 0.421 (0.849)	pCi/L	03/10/21 14:15	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1D (021221) MS **Lab ID: 92521567017** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 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	98.68 %REC ± NA (NA) C:NA T:NA	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	106.48 %REC ± NA (NA) C:NA T:NA	pCi/L	03/09/21 15:27	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1D (021221) MSD **Lab ID: 92521567018** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 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	91.79 %REC 7.24 RPD ± NA (NA) C:NA T:NA	pCi/L	03/09/21 19:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	91.25 %REC 15.40 RPD ± NA (NA) C:NA T:NA	pCi/L	03/09/21 15:28	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-2I(021021) **Lab ID: 92521572002** Collected: 02/10/21 12:40 Received: 02/10/21 17:10 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	0.209 ± 0.130 (0.198) C:83% T:NA	pCi/L	03/02/21 11:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.831 ± 0.551 (1.06) C:70% T:78%	pCi/L	02/24/21 15:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.04 ± 0.681 (1.26)	pCi/L	03/02/21 16:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 436983

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

METHOD BLANK: 2109306

Matrix: Water

Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0161 ± 0.0615 (0.127) C:96% T:NA	pCi/L	03/09/21 19:03	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435783

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567001, 92521567002, 92521567003

METHOD BLANK: 2103740

Matrix: Water

Associated Lab Samples: 92521567001, 92521567002, 92521567003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.267 ± 0.143 (0.193) C:92% T:NA	pCi/L	03/05/21 07:29	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435459

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521572002

METHOD BLANK: 2102227

Matrix: Water

Associated Lab Samples: 92521572002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.276 ± 0.140 (0.180) C:89% T:NA	pCi/L	03/02/21 07:53	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435781

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

METHOD BLANK: 2103737

Matrix: Water

Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0349 ± 0.0874 (0.210) C:95% T:NA	pCi/L	03/05/21 07:14	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435116

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521572002

METHOD BLANK: 2100680

Matrix: Water

Associated Lab Samples: 92521572002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.356 ± 0.369 (0.763) C:72% T:87%	pCi/L	02/24/21 15:29	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435780

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

METHOD BLANK: 2103736

Matrix: Water

Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.175 ± 0.283 (0.615) C:84% T:89%	pCi/L	03/01/21 16:20	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 436984

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

METHOD BLANK: 2109307

Matrix: Water

Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0130 ± 0.299 (0.696) C:76% T:89%	pCi/L	03/09/21 15:28	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435784

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567001, 92521567002, 92521567003

METHOD BLANK: 2103741

Matrix: Water

Associated Lab Samples: 92521567001, 92521567002, 92521567003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.191 ± 0.338 (0.740) C:71% T:85%	pCi/L	02/26/21 11:33	

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

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QUALIFIERS

Project: YATES AMA RADS
Pace Project No.: 92521568

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.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA RAD5

Pace Project No.: 92521568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521567001	EB-02 (021021)	EPA 9315	435783		
92521567002	YGWA-14S (021021)	EPA 9315	435783		
92521567003	DUP-1 (021021)	EPA 9315	435783		
92521568001	YGWA-5D (020821)	EPA 9315	435781		
92521568002	DUP-01(020821)	EPA 9315	435781		
92521568003	YGWA-5I (020821)	EPA 9315	435781		
92521568004	YGWA-39 (021021)	EPA 9315	435781		
92521568005	YGWA-40 (021021)	EPA 9315	435781		
92521568006	FB-01(021021)	EPA 9315	435781		
92521568007	YGWA-20S (020921)	EPA 9315	435781		
92521568008	YGWA-4I(020921)	EPA 9315	435781		
92521568009	YGWA-17S(020921)	EPA 9315	435781		
92521568010	YGWA-18S(020921)	EPA 9315	435781		
92521568011	YGWA-18I(020921)	EPA 9315	435781		
92521568012	YGWA-21I(020921)	EPA 9315	435781		
92521572002	YGWA-2I(021021)	EPA 9315	435459		
92521568013	YGWA-3I(021021)	EPA 9315	435781		
92521568014	YGWA-3D(021021)	EPA 9315	435781		
92521568015	YGWA-30I(021121)	EPA 9315	435781		
92521568016	FB-01(021121)	EPA 9315	435781		
92521568017	EB-01(021121)	EPA 9315	435781		
92521567010	YGWA-1I (021221)	EPA 9315	436983		
92521567011	YGWA-1D (021221)	EPA 9315	436983		
92521567017	YGWA-1D (021221) MS	EPA 9315	436983		
92521567018	YGWA-1D (021221) MSD	EPA 9315	436983		
92521568018	YGWA-40 (021021) MS	EPA 9315	435781		
92521568019	YGWA-40 (021021) MSD	EPA 9315	435781		
92521567001	EB-02 (021021)	EPA 9320	435784		
92521567002	YGWA-14S (021021)	EPA 9320	435784		
92521567003	DUP-1 (021021)	EPA 9320	435784		
92521568001	YGWA-5D (020821)	EPA 9320	435780		
92521568002	DUP-01(020821)	EPA 9320	435780		
92521568003	YGWA-5I (020821)	EPA 9320	435780		
92521568004	YGWA-39 (021021)	EPA 9320	435780		
92521568005	YGWA-40 (021021)	EPA 9320	435780		
92521568006	FB-01(021021)	EPA 9320	435780		
92521568007	YGWA-20S (020921)	EPA 9320	435780		
92521568008	YGWA-4I(020921)	EPA 9320	435780		
92521568009	YGWA-17S(020921)	EPA 9320	435780		
92521568010	YGWA-18S(020921)	EPA 9320	435780		
92521568011	YGWA-18I(020921)	EPA 9320	435780		
92521568012	YGWA-21I(020921)	EPA 9320	435780		
92521572002	YGWA-2I(021021)	EPA 9320	435116		
92521568013	YGWA-3I(021021)	EPA 9320	435780		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521568014	YGWA-3D(021021)	EPA 9320	435780		
92521568015	YGWA-30I(021121)	EPA 9320	435780		
92521568016	FB-01(021121)	EPA 9320	435780		
92521568017	EB-01(021121)	EPA 9320	435780		
92521567010	YGWA-1I (021221)	EPA 9320	436984		
92521567011	YGWA-1D (021221)	EPA 9320	436984		
92521567017	YGWA-1D (021221) MS	EPA 9320	436984		
92521567018	YGWA-1D (021221) MSD	EPA 9320	436984		
92521568018	YGWA-40 (021021) MS	EPA 9320	435780		
92521568019	YGWA-40 (021021) MSD	EPA 9320	435780		
92521567001	EB-02 (021021)	Total Radium Calculation	437456		
92521567002	YGWA-14S (021021)	Total Radium Calculation	437456		
92521567003	DUP-1 (021021)	Total Radium Calculation	437456		
92521568001	YGWA-5D (020821)	Total Radium Calculation	437454		
92521568002	DUP-01(020821)	Total Radium Calculation	437454		
92521568003	YGWA-5I (020821)	Total Radium Calculation	437454		
92521568004	YGWA-39 (021021)	Total Radium Calculation	437454		
92521568005	YGWA-40 (021021)	Total Radium Calculation	437454		
92521568006	FB-01(021021)	Total Radium Calculation	437454		
92521568007	YGWA-20S (020921)	Total Radium Calculation	437454		
92521568008	YGWA-4I(020921)	Total Radium Calculation	437454		
92521568009	YGWA-17S(020921)	Total Radium Calculation	437454		
92521568010	YGWA-18S(020921)	Total Radium Calculation	437454		
92521568011	YGWA-18I(020921)	Total Radium Calculation	437454		
92521568012	YGWA-21I(020921)	Total Radium Calculation	437454		
92521572002	YGWA-2I(021021)	Total Radium Calculation	436928		
92521568013	YGWA-3I(021021)	Total Radium Calculation	437454		
92521568014	YGWA-3D(021021)	Total Radium Calculation	437454		
92521568015	YGWA-30I(021121)	Total Radium Calculation	437454		
92521568016	FB-01(021121)	Total Radium Calculation	437454		
92521568017	EB-01(021121)	Total Radium Calculation	437454		
92521567010	YGWA-1I (021221)	Total Radium Calculation	438070		
92521567011	YGWA-1D (021221)	Total Radium Calculation	438070		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
 Upon Receipt

Client Name:

GAPower

Project #:

WO# : 92521568

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 21 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 21

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

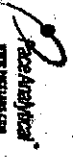
Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section B
Required Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Kennesaw, GA 30114
 Phone: (770)384-6326
 Fax:
 Requested Date:
 Report To: Beach Street
 Copy To:
 Project #:
Required Project Information:
 Requested Order #: Yates AWA
 Project Name:
 Address:
 POB (County):
 POB (City):
 POB (State):
 POB (Zip):
 POB (Profile #): 10840
 POB (Project Manager): kwhinberry@gepcosta.com
 POB (Profile #): 10840

NO.	MATERIAL	CODE	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analytes Test			Residual Chlorine (Y/N)		
				START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IV Metals	Fluoride	RAD 8315/9320			
13	7600A-5D	WT	WT	02/25/10	1645	Y															
14		WT	WT																		
15		WT	WT																		
16		WT	WT																		
17		WT	WT																		
18		WT	WT																		
19		WT	WT																		
20		WT	WT																		
21																					
22																					
23																					
24																					

Section C
Analyst Information:
 Name: *Charles F. Hawk*
 Title: *Analyst*
 Date Signed: *02/10/2010*
 Signature of Sampler: *Charles F. Hawk*
 Date Signed: *02/10/2010*

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

Page: 1 of 3
 COC 3



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Client Information:
 Agency: Georgia Power
 Address: 1070 Buford Dam Ave
 Atlanta, GA 30114

Requested Project Information:
 Report To: Betsy Stever
 Copy To:

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Order:
 Pace Project Manager: Kevin Herting@pacstate.com
 Pace Profile #: 10940

Order Information:
 Order #: 1701294-6336
 Item: 1
 Project Name: Yates AMA
 Project #: 10940

Requested Project Information:
 Purchase Order #: Yates AMA
 Project Name: Yates AMA
 Project #:

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Order:
 Pace Project Manager: Kevin Herting@pacstate.com
 Pace Profile #: 10940

Signature and Date:
 Signature: [Signature]
 Date: 1/17/12

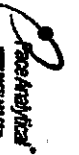
ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							Analytical	App IV Metals	Fluoride	RAD 9316/9320	Residual Chlorine (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					
1	YGWA-11 (020921)	WT	2/9	1550		4	N												PH 6.80
2	YGWA-17S (010921)	WT	2/9	1115		4	X												PH 5.02
3	YGWA-18S (020921)	WT	2/9	1585		4	X												PH 6.12
4	YGWA-18I (020921)	WT	2/9	1400		4	X												PH 6.95
5	YGWA-21I (020921)	WT	2/9	1400		4	X												PH 6.95
6	YGWA-21I (020921)	WT	2/9	1506		4	X												PH 6.95
7	YGWA-21I (020921)	WT	2/9	1506		4	X												PH 6.95
8	YGWA-21I (020921)	WT	2/9	1506		4	X												PH 6.95
9	YGWA-21I (020921)	WT	2/9	1506		4	X												PH 6.95
10	YGWA-21I (020921)	WT	2/9	1506		4	X												PH 6.95
11	YGWA-21I (020921)	WT	2/9	1506		4	X												PH 6.95
12	YGWA-21I (020921)	WT	2/9	1506		4	X												PH 6.95

MATRIX CODE	COLETTED	DATE	TIME	DATE	TIME	UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	ANALYTICAL	APP IV METALS	FLUORIDE	RAD 9316/9320	RESIDUAL CHLORINE (Y/N)	
WT		2/9	1550			N									X	X	X		PH 6.80
WT		2/9	1115			X									X	X	X		PH 5.02
WT		2/9	1585			X									X	X	X		PH 6.12
WT		2/9	1400			X									X	X	X		PH 6.95
WT		2/9	1400			X									X	X	X		PH 6.95
WT		2/9	1506			X									X	X	X		PH 6.95
WT		2/9	1506			X									X	X	X		PH 6.95
WT		2/9	1506			X									X	X	X		PH 6.95
WT		2/9	1506			X									X	X	X		PH 6.95
WT		2/9	1506			X									X	X	X		PH 6.95
WT		2/9	1506			X									X	X	X		PH 6.95

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

Signature and Date:
 Signature: [Signature]
 Date: 2/17/12

Signature and Date:
 Signature: [Signature]
 Date: 2/17/12



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Client Information:

Company: Georgia Power
 Address: 1070 Etchidge Mill Ave
 City: Atlanta, GA 30114

Phone: (770) 344-5325 Fax:
 Request Date: Project #:

Section B

Requested Project Information:

Request To: Becky Severn
 Copy To:

Purchase Order #: AP-1
 Project Name: Project #:

Section C

Site Information:

Address:
 City/State/Zip:
 Project Manager: Kevin.Hetting@ep.com
 Phone: 10940

Page: 1 of 2
 GPCB

ITEM #	SAMPLE ID	MATERIAL	COODS	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							Residual Chlorine (Y/N)					
				START DATE	END DATE		UNPRESERVED	H2BO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other				
1	YVWA-3I (021021)	Drinking Water	SWD	4/10	4/10	41.0	X												
2	YVWA-3D (021021)	Drinking Water	SWD	4/10	4/10	41.0	X												
3	YVWA-4	Drinking Water	SWD																
4	YVWA-5	Drinking Water	SWD																

G2521564
 PH 7:58
 PM 7:21
 013
 014

ADDITIONAL COMMENTS	DATE	TIME	INITIALS	RECEIVED BY	DATE	TIME	INITIALS	TEMP IN C	Received on Ice (Y/N)	Cooler Sealed (Y/N)	Samples Intact (Y/N)

CLIENT NAME AND SOLARITIES: Georgia Power
 PRINT NAME OF ANALYST: Becky Severn
 SIGNATURE: [Signature]
 DATE: 4/10/21

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A		Section B		Section C	
Client Information: Agency: Georgia Power Address: 1070 Bridge Mill Ave City: Atlanta, GA 30114 Phone: 478-994-6526 Fax: _____ Requested Date: _____		Project Information: Report To: Beach Street Copy To: _____ Purchase Order #: _____ Project Name: Yates AP-2 Project #: _____		Invoice Information: Attention: _____ Company Name: _____ Address: _____ POC Name: _____ POC Title: _____ POC Phone #: 10640	

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	Residual Chlorine (Y/N)
			START DATE	END DATE					
1	YSVIA-3IN	WT							
2	YSVIA-3IN	WT							
3	YSVIA-3IN	WT							
4	YSVIA-3IN	WT							
5	YSVIA-3IN	WT							
6	YSVIA-3IN	WT							
7	YSVIA-3IN	WT							
8	YSVIA-3IN	WT							
9	YSVIA-3IN	WT							
10	YSVIA-3IN	WT							
11	YSVIA-3IN	WT							
12	YSVIA-3IN	WT							

DATE	TIME	DATE	TIME	TEMP	CONTAINERS	PRESERVATIVES	ANALYTES TEST	RESIDUAL CHLORINE
2-11-21	10:00	2-11-21	12:05	47	1	Unpreserved	App IV Metals, Fluoride, RAD 9315/9320	6252568
2-11-21	10:00	2-11-21	12:05	47	1	Unpreserved	App IV Metals, Fluoride, RAD 9315/9320	6252568
2-11-21	10:00	2-11-21	12:05	47	1	Unpreserved	App IV Metals, Fluoride, RAD 9315/9320	6252568
2-11-21	10:00	2-11-21	12:05	47	1	Unpreserved	App IV Metals, Fluoride, RAD 9315/9320	6252568
2-11-21	10:00	2-11-21	12:05	47	1	Unpreserved	App IV Metals, Fluoride, RAD 9315/9320	6252568
2-11-21	10:00	2-11-21	12:05	47	1	Unpreserved	App IV Metals, Fluoride, RAD 9315/9320	6252568
2-11-21	10:00	2-11-21	12:05	47	1	Unpreserved	App IV Metals, Fluoride, RAD 9315/9320	6252568
2-11-21	10:00	2-11-21	12:05	47	1	Unpreserved	App IV Metals, Fluoride, RAD 9315/9320	6252568
2-11-21	10:00	2-11-21	12:05	47	1	Unpreserved	App IV Metals, Fluoride, RAD 9315/9320	6252568
2-11-21	10:00	2-11-21	12:05	47	1	Unpreserved	App IV Metals, Fluoride, RAD 9315/9320	6252568

PRINT Name of SAMPLER: Kyle Spencer SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed: 2-11-21		RECEIVED BY: <i>[Signature]</i> DATE: 2/11/2023	
TEMP in C	Received on Ice (Y/N)	Cooler Sealed (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 2/26/2021
Worklist: 58911
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2103737
MB concentration:	0.035
M/B Counting Uncertainty:	0.087
MB MDC:	0.210
MB Numerical Performance Indicator:	0.78
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS58911	Y
Count Date:	3/5/2021	LCS58911
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.040	24.040
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.501
Target Conc. (pCi/L, g, F):	4.737	4.795
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	4.762	4.738
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.526	0.516
Numerical Performance Indicator:	0.09	-0.21
Percent Recovery:	100.53%	98.83%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS58911
Duplicate Sample I.D.:	LCS58911
Sample Result (pCi/L, g, F):	4.762
Sample Result Counting Uncertainty (pCi/L, g, F):	0.526
Sample Duplicate Result (pCi/L, g, F):	4.738
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.516
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.062
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.71%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

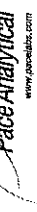
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/10/2021	
Sample I.D.:	92521568005	
Sample MS I.D.:	92521568018	
Sample MSD I.D.:	92521568019	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.040	
Spike Volume Used in MSD (mL):	0.20	
Spike Volume Used in MS (mL):	0.507	
MS Aliquot (L, g, F):	9.481	
MS Target Conc. (pCi/L, g, F):	0.504	
MSD Target Conc. (pCi/L, g, F):	9.531	
MS Spike Uncertainty (calculated):	0.114	
MSD Spike Uncertainty (calculated):	0.114	
Sample Result:	0.346	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.170	
Sample Matrix Spike Result:	10.085	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.759	
Sample Matrix Spike Duplicate Result:	9.274	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	0.719	
MS Numerical Performance Indicator:	0.643	
MSD Numerical Performance Indicator:	-1.581	
MS Percent Recovery:	102.72%	
MSD Percent Recovery:	93.67%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92521568005
Sample MS I.D.:	92521568018
Sample MSD I.D.:	92521568019
Sample Matrix Spike Result:	10.085
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.759
Sample Matrix Spike Duplicate Result:	9.274
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	0.719
Duplicate Numerical Performance Indicator:	1.522
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	9.21%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: VAL
Date: 2/24/2021
Worklist: 58910
Matrix: WT

Method Blank Assessment	
MB Sample ID	2103736
MB concentration:	0.175
MB 2 Sigma CSU:	0.293
MB MDC:	0.615
MB Numerical Performance Indicator:	1.21
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	N
Count Date:	3/1/2021	LCS58910	LCS58910
Spike I.D.:	21-003		
Decay Corrected Spike Concentration (pCi/mL):	38.633		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.813		
Target Conc. (pCi/L, g, F):	4.751		
Uncertainty (Calculated):	0.233		
Result (pCi/L, g, F):	3.106		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.756		
Numerical Performance Indicator:	-4.07		
Percent Recovery:	65.39%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

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

Comments:

Handwritten notes and signatures in the comments area.

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	Sample I.D.	2/10/2021	
Sample MS I.D.	Sample MS I.D.	92521568005	
Sample MSD I.D.	Sample MSD I.D.	92521568018	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike I.D.:	21-003	
Spike Volume Used in MS (mL):	Spike Volume Used in MSD (mL):	38.879	
MS Aliquot (L, g, F):	MS Target Conc. (pCi/L, g, F):	0.20	
MS Aliquot (L, g, F):	MSD Aliquot (L, g, F):	0.805	
MSD Target Conc. (pCi/L, g, F):	MS Spike Uncertainty (calculated):	9.656	
MSD Spike Uncertainty (calculated):	MSD Spike Uncertainty (calculated):	0.808	
Sample Result:	Sample Result 2 Sigma CSU (pCi/L, g, F):	9.628	
Sample Matrix Spike Result:	Sample Matrix Spike Result:	0.473	
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:	0.472	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.437	
MS Numerical Performance Indicator:	MS Numerical Performance Indicator:	0.487	
MS Percent Recovery:	MS Percent Recovery:	8.391	
MSD Percent Recovery:	MSD Percent Recovery:	1.709	
MS Status vs Numerical Indicator:	MS Status vs Numerical Indicator:	6.453	
MSD Status vs Numerical Indicator:	MSD Status vs Numerical Indicator:	1.402	
MS/MSD Upper % Recovery Limits:	MS/MSD Upper % Recovery Limits:	-1.814	
MS/MSD Lower % Recovery Limits:	MS/MSD Lower % Recovery Limits:	-4.545	
		82.38%	
		62.49%	
		Pass	
		Fail****	
		Pass	
		Pass	
		135%	
		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	92521568005
Sample MS I.D.	92521568018
Sample MSD I.D.	92521568019
Sample Matrix Spike Result:	8.391
Sample Matrix Spike Duplicate Result:	1.709
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	6.453
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.402
Duplicate Numerical Performance Indicator:	1.718
Duplicate Numerical Performance Indicator:	27.45%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

March 11, 2021

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

RE: Project: YATES AP-2 RADS
Pace Project No.: 92521567

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES AP-2 RADS
Pace Project No.: 92521567

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521567004	YGWC-26S (021021)	Water	02/10/21 10:00	02/10/21 17:10
92521567005	YGWC-26I (021021)	Water	02/10/21 11:00	02/10/21 17:10
92521567006	YGWC-27S (021021)	Water	02/10/21 12:10	02/10/21 17:10
92521567007	YGWC-27I (021021)	Water	02/10/21 13:15	02/10/21 17:10
92521567008	DUP-2 (021021)	Water	02/10/21 00:00	02/10/21 17:10
92521567009	YGWC-28I(021121)	Water	02/11/21 09:40	02/11/21 13:03
92521567012	YGWC-28S (021221)	Water	02/12/21 15:20	02/12/21 17:10
92521567013	YGWC-29I (021221)	Water	02/12/21 14:20	02/12/21 17:10
92521567014	EB-02 (021221)	Water	02/12/21 15:30	02/12/21 17:10
92521567015	YGWC-28I(021121) MS	Water	02/11/21 09:40	02/11/21 13:03
92521567016	YGWC-28I(021121) MSD	Water	02/11/21 09:40	02/11/21 13:03

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521567004	YGWC-26S (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567005	YGWC-26I (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567006	YGWC-27S (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567007	YGWC-27I (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567008	DUP-2 (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567009	YGWC-28I(021121)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567012	YGWC-28S (021221)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567013	YGWC-29I (021221)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567014	EB-02 (021221)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567015	YGWC-28I(021121) MS	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521567016	YGWC-28I(021121) MSD	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567004	YGWC-26S (021021)					
EPA 9315	Radium-226	0.0274 ± 0.0730 (0.179) C:86% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	0.383 ± 0.365 (0.748) C:71% T:86%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.410 ± 0.438 (0.927)	pCi/L		03/05/21 14:01	
92521567005	YGWC-26I (021021)					
EPA 9315	Radium-226	0.240 ± 0.141 (0.192) C:83% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	0.273 ± 0.374 (0.802) C:74% T:81%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.513 ± 0.515 (0.994)	pCi/L		03/05/21 14:01	
92521567006	YGWC-27S (021021)					
EPA 9315	Radium-226	0.179 ± 0.157 (0.307) C:84% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	0.484 ± 0.373 (0.732) C:75% T:79%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.663 ± 0.530 (1.04)	pCi/L		03/05/21 14:01	
92521567007	YGWC-27I (021021)					
EPA 9315	Radium-226	1.57 ± 0.386 (0.235) C:87% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	0.900 ± 0.418 (0.698) C:75% T:84%	pCi/L		02/26/21 11:31	
Total Radium Calculation	Total Radium	2.47 ± 0.804 (0.933)	pCi/L		03/05/21 14:01	

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SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567008	DUP-2 (021021)					
EPA 9315	Radium-226	0.209 ± 0.140 (0.222) C:80% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	-0.0571 ± 0.352 (0.830) C:74% T:81%	pCi/L		02/26/21 11:31	
Total Radium Calculation	Total Radium	0.209 ± 0.492 (1.05)	pCi/L		03/05/21 14:01	
92521567009	YGWC-28I(021121)					
EPA 9315	Radium-226	0.181 ± 0.145 (0.267) C:84% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	0.891 ± 0.393 (0.645) C:82% T:86%	pCi/L		02/26/21 11:31	
Total Radium Calculation	Total Radium	1.07 ± 0.538 (0.912)	pCi/L		03/05/21 14:01	
92521567012	YGWC-28S (021221)					
EPA 9315	Radium-226	0.295 ± 0.102 (0.124) C:93% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.124 ± 0.277 (0.616) C:77% T:87%	pCi/L		03/09/21 15:27	
Total Radium Calculation	Total Radium	0.419 ± 0.379 (0.740)	pCi/L		03/10/21 14:15	
92521567013	YGWC-29I (021221)					
EPA 9315	Radium-226	0.332 ± 0.108 (0.130) C:95% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.494 ± 0.334 (0.632) C:80% T:89%	pCi/L		03/09/21 15:27	
Total Radium Calculation	Total Radium	0.826 ± 0.442 (0.762)	pCi/L		03/10/21 14:15	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567014	EB-02 (021221)					
EPA 9315	Radium-226	-0.0448 ± 0.0859 (0.187) C:97% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	-0.0392 ± 0.349 (0.818) C:79% T:83%	pCi/L		03/09/21 15:27	
Total Radium Calculation	Total Radium	0.000 ± 0.435 (1.01)	pCi/L		03/10/21 14:15	
92521567015	YGWC-28I(021121) MS					
EPA 9315	Radium-226	107.09 %REC ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	82.63 %REC ± NA (NA) C:NA T:NA	pCi/L		02/26/21 11:31	
92521567016	YGWC-28I(021121) MSD					
EPA 9315	Radium-226	90.68 %REC 16.60RPD ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:44	
EPA 9320	Radium-228	80.99 %REC 2.01 RPD ± NA (NA) C:NA T:NA	pCi/L		02/26/21 14:46	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: YGWC-26S (021021) **Lab ID: 92521567004** Collected: 02/10/21 10:00 Received: 02/10/21 17:10 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	0.0274 ± 0.0730 (0.179) C:86% T:NA	pCi/L	03/05/21 07:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.383 ± 0.365 (0.748) C:71% T:86%	pCi/L	02/26/21 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.410 ± 0.438 (0.927)	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: YGWC-26I (021021) **Lab ID: 92521567005** Collected: 02/10/21 11:00 Received: 02/10/21 17:10 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	0.240 ± 0.141 (0.192) C:83% T:NA	pCi/L	03/05/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.273 ± 0.374 (0.802) C:74% T:81%	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.513 ± 0.515 (0.994)	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: YGWC-27S (021021) **Lab ID: 92521567006** Collected: 02/10/21 12:10 Received: 02/10/21 17:10 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	0.179 ± 0.157 (0.307) C:84% T:NA	pCi/L	03/05/21 07:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.484 ± 0.373 (0.732) C:75% T:79%	pCi/L	02/26/21 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.663 ± 0.530 (1.04)	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: YGWC-271 (021021) **Lab ID: 92521567007** Collected: 02/10/21 13:15 Received: 02/10/21 17:10 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	1.57 ± 0.386 (0.235) C:87% T:NA	pCi/L	03/05/21 07:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.900 ± 0.418 (0.698) C:75% T:84%	pCi/L	02/26/21 11:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.47 ± 0.804 (0.933)	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: DUP-2 (021021) **Lab ID: 92521567008** Collected: 02/10/21 00:00 Received: 02/10/21 17:10 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	0.209 ± 0.140 (0.222) C:80% T:NA	pCi/L	03/05/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0571 ± 0.352 (0.830) C:74% T:81%	pCi/L	02/26/21 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.209 ± 0.492 (1.05)	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: YGWC-28(021121) **Lab ID: 92521567009** Collected: 02/11/21 09:40 Received: 02/11/21 13:03 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	0.181 ± 0.145 (0.267) C:84% T:NA	pCi/L	03/05/21 07:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.891 ± 0.393 (0.645) C:82% T:86%	pCi/L	02/26/21 11:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.07 ± 0.538 (0.912)	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: YGWC-28S (021221) **Lab ID: 92521567012** Collected: 02/12/21 15:20 Received: 02/12/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.295 ± 0.102 (0.124) C:93% T:NA	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.124 ± 0.277 (0.616) C:77% T:87%	pCi/L	03/09/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.419 ± 0.379 (0.740)	pCi/L	03/10/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: YGWC-29I (021221) **Lab ID: 92521567013** Collected: 02/12/21 14:20 Received: 02/12/21 17:10 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	0.332 ± 0.108 (0.130) C:95% T:NA	pCi/L	03/09/21 19:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.494 ± 0.334 (0.632) C:80% T:89%	pCi/L	03/09/21 15:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.826 ± 0.442 (0.762)	pCi/L	03/10/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: EB-02 (021221) **Lab ID: 92521567014** Collected: 02/12/21 15:30 Received: 02/12/21 17:10 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	-0.0448 ± 0.0859 (0.187) C:97% T:NA	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0392 ± 0.349 (0.818) C:79% T:83%	pCi/L	03/09/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 0.435 (1.01)	pCi/L	03/10/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: YGWC-28(021121) MS **Lab ID: 92521567015** Collected: 02/11/21 09:40 Received: 02/11/21 13:03 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	107.09 %REC ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	82.63 %REC ± NA (NA) C:NA T:NA	pCi/L	02/26/21 11:31	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Sample: YGWC-28(021121) MSD **Lab ID: 92521567016** Collected: 02/11/21 09:40 Received: 02/11/21 13:03 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	90.68 %REC 16.60RPD ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	80.99 %REC 2.01 RPD ± NA (NA) C:NA T:NA	pCi/L	02/26/21 14:46	15262-20-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

QC Batch: 435783

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567004, 92521567005, 92521567006, 92521567007, 92521567008, 92521567009, 92521567015, 92521567016

METHOD BLANK: 2103740

Matrix: Water

Associated Lab Samples: 92521567004, 92521567005, 92521567006, 92521567007, 92521567008, 92521567009, 92521567015, 92521567016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.267 ± 0.143 (0.193) C:92% T:NA	pCi/L	03/05/21 07:29	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

QC Batch: 436983

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567012, 92521567013, 92521567014

METHOD BLANK: 2109306

Matrix: Water

Associated Lab Samples: 92521567012, 92521567013, 92521567014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0161 ± 0.0615 (0.127) C:96% T:NA	pCi/L	03/09/21 19:03	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

QC Batch: 436984

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567012, 92521567013, 92521567014

METHOD BLANK: 2109307

Matrix: Water

Associated Lab Samples: 92521567012, 92521567013, 92521567014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0130 ± 0.299 (0.696) C:76% T:89%	pCi/L	03/09/21 15:28	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92521567

QC Batch: 435784

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567004, 92521567005, 92521567006, 92521567007, 92521567008, 92521567009, 92521567015, 92521567016

METHOD BLANK: 2103741

Matrix: Water

Associated Lab Samples: 92521567004, 92521567005, 92521567006, 92521567007, 92521567008, 92521567009, 92521567015, 92521567016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.191 ± 0.338 (0.740) C:71% T:85%	pCi/L	02/26/21 11:33	

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

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QUALIFIERS

Project: YATES AP-2 RADS

Pace Project No.: 92521567

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.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2 RADS

Pace Project No.: 92521567

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521567004	YGWC-26S (021021)	EPA 9315	435783		
92521567005	YGWC-26I (021021)	EPA 9315	435783		
92521567006	YGWC-27S (021021)	EPA 9315	435783		
92521567007	YGWC-27I (021021)	EPA 9315	435783		
92521567008	DUP-2 (021021)	EPA 9315	435783		
92521567009	YGWC-28I(021121)	EPA 9315	435783		
92521567012	YGWC-28S (021221)	EPA 9315	436983		
92521567013	YGWC-29I (021221)	EPA 9315	436983		
92521567014	EB-02 (021221)	EPA 9315	436983		
92521567015	YGWC-28I(021121) MS	EPA 9315	435783		
92521567016	YGWC-28I(021121) MSD	EPA 9315	435783		
92521567004	YGWC-26S (021021)	EPA 9320	435784		
92521567005	YGWC-26I (021021)	EPA 9320	435784		
92521567006	YGWC-27S (021021)	EPA 9320	435784		
92521567007	YGWC-27I (021021)	EPA 9320	435784		
92521567008	DUP-2 (021021)	EPA 9320	435784		
92521567009	YGWC-28I(021121)	EPA 9320	435784		
92521567012	YGWC-28S (021221)	EPA 9320	436984		
92521567013	YGWC-29I (021221)	EPA 9320	436984		
92521567014	EB-02 (021221)	EPA 9320	436984		
92521567015	YGWC-28I(021121) MS	EPA 9320	435784		
92521567016	YGWC-28I(021121) MSD	EPA 9320	435784		
92521567004	YGWC-26S (021021)	Total Radium Calculation	437456		
92521567005	YGWC-26I (021021)	Total Radium Calculation	437457		
92521567006	YGWC-27S (021021)	Total Radium Calculation	437457		
92521567007	YGWC-27I (021021)	Total Radium Calculation	437457		
92521567008	DUP-2 (021021)	Total Radium Calculation	437457		
92521567009	YGWC-28I(021121)	Total Radium Calculation	437457		
92521567012	YGWC-28S (021221)	Total Radium Calculation	438070		
92521567013	YGWC-29I (021221)	Total Radium Calculation	438070		
92521567014	EB-02 (021221)	Total Radium Calculation	438070		

REPORT OF LABORATORY ANALYSIS

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO# : 92521567

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/10/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp:

21 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

21

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Client Information:

Company: Georgia Power
 Address: 1070 Bridge Hill Ave
 City: Tallahassee, FL 32310
 Phone: (904) 487-5295
 Fax: (904) 487-5295
 Project Name: Yales AP-2
 Project #: 10840

Section B

Requested Project Information:

Report To: Becky Steiner
 Copy To:
 Purchase Order #:
 Price Quote:
 Company Name:
 Address:
 Price Project Manager: Kevin Herring@pasanaly.com
 Price Profile #: 10840

Section C

Invoice Information:

Attention:
 Company Name:
 Address:
 Price Profile #: 10840

CBC 2

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (Y/N)		
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	
1	YGWA-115	WT															
2	YGWA-115	WT															
3	YGWA-21	WT															
4	YGWA-21	WT															
5	YGWA-115	WT	02/14/14	11:30	4												
6	YGWA-115	WT	02/14/14	08:50	4												
7	YGWA-21	WT	02/14/14	-	4												
8	YGWA-21	WT	02/14/14	1:00	4												
9	YGWA-21	WT	02/14/14	1:00	4												
10	YGWA-21	WT	02/14/14	1:35	4												
11	YGWA-21	WT	02/14/14	1:35	4												
12	YGWA-21	WT	02/14/14	-	4												

REQUISITIONED BY / LAB/LOCATION	DATE	TIME	ACCEPTED BY / LAB/LOCATION	DATE	TIME	SAMPLE CONDITIONS
			David Banks	2/14/14	1:00	PH = 5.35 PH = 5.18 PH = 5.18 PH = 5.96 PH = 6.21 PH = 6.89

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

ANALYZER NAME AND SIGNATURE:
 PRINT NAME OF ANALYZER:
 SIGNATURE OF ANALYZER:
 DATE SIGNED: 02/10/2014



CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: Atlanta, GA 30114
Phone: (770) 384-5326
Fax: _____
Requested Date: _____

Section B

Required Project Information:
Report To: Becky Steiner
Copy To: _____
Purchase Order #: _____
Project Name: Yates AP-2
Project #: _____

Section C

Invoice Information:
Address: _____
Company Name: _____
Price Quote: _____
Price Project Manager: lew@heating@pacelabs.com
Pack Profile #: 10840

ITEM #	DESCRIPTION	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						ANALYSES TEST	RESIDUAL CHLORINE (Y/N)				
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other		
1	YOWC-281 (02/12/11)	WT	SUB	09/10	12/14														
2	YOWC-281	WT																	
3		WT																	
4		WT																	
5		WT																	
6		WT																	
7		WT																	
8		WT																	
9		WT																	
10		WT																	
11																			
12																			

ANALYST NAME AND SIGNATURE: Peter Hymowitz
PRINT NAME OF SAMPLER: Peter Hymowitz
SIGNATURE OF SAMPLER: [Signature]
DATE SIGNED: 02/11/2011

TEMP In C

Received on Ice (Y/N)

Custody Sealed/ Cooler (Y/N)

Samples Intact (Y/N)

PH=6.57



CHAIN-OF-CUSTODY / Analytical Request Document

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

Form A

Client Information: Party: Georgia Power Address: 1070 Bridge Mill Ave City: GA 30114		Required Project Information: Report To: Buddy Steever Copy To:		Section B Purchase Order #:		Section C Invoice Information: Attention: Company Name: Address: POC Name: POC Title: POC Email: POC Phone:	
Phone: (770)384-6525 Fax: Project #:		Project Name:		Matrix Code:		Matrix Code:	

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

MATRIX	CODE
Disturb	WD
Water	WD
Waste	WD
Product	PD
Solid	SL
QID	QID
WHD	WHD
AND	AND
ORVD	ORVD
TS	TS

SAMPLE ID	WEIGHT	DATE	TIME	DATE	TIME	# OF CONTAINERS							Analytes Test			TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Samples Intact (Y/N)
						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IV Metals	Fluoride				
YUDA-1-E		2/12	1520																
YUDA-1-D		2/12	1555			X	X	X	X	X	X	X	X	X	X	X	X	X	
						X	X	X	X	X	X	X	X	X	X	X	X	X	
						X	X	X	X	X	X	X	X	X	X	X	X	X	
						X	X	X	X	X	X	X	X	X	X	X	X	X	
						X	X	X	X	X	X	X	X	X	X	X	X	X	

Requested by: Kelly Seifrieds
 Date: 2/12/21
 Requested by: Kevin Herring
 Date: 2/12/21

Requester Name and Signature: Kelly Seifrieds
 Project Name of Sample: [blank]
 Signature: [Signature]
 Date: 2/12/21



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: Client Information, Section B: Required Project Information, Section C: Invoice Information

Client Information:
 Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: GA 30114
 Phone: (770) 394-8528
 Fax: [Blank]

Required Project Information:
 Report To: Becky Steiner
 Copy To: [Blank]
 Project Name: Yates AP-2
 Project #:

Invoice Information:
 Address: [Blank]
 Company Name: [Blank]
 Payer Order: [Blank]
 Payer Project Manager: [Blank]
 Payer Profile #: 10940

SAMPLE ID
 One Character per box.
 (A-Z, 0-9, /)

Sample IDs must be unique

MATRIX CODES:
 Drinking Water: DWID
 Wastewater: WWTID
 Process Water: PWTID
 Product Water: PWTID
 Sewage: SOWID
 Other: OTHID
 Tissue: TISID

CODES:
 DWID, WWTID, PWTID, SOWID, OTHID, TISID

YGMC-201	WT	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives						App IV Metals	Fluoride	RAD 6916/6920	Residual Chlorine (Y/N)
									H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
02122	WT	11/15/20					4											
02122	WT	11/17/20					4											
02122	WT	11/12/20					4											
	WT																	
	WT																	
	WT																	
	WT																	
	WT																	

ANALYST USE ONLY AND SIGNATURES

DATE: [Blank] TIME: [Blank] DATE: [Blank] TIME: [Blank]

RECEIVED BY / SIGNATURE: [Blank]

DATE: [Blank] TIME: [Blank]

TEMP In C: [Blank]

Received on Ice (Y/N)

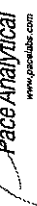
Cooler Sealed (Y/N)

Cooler (Y/N)

Samples Intact (Y/N)

Signature: [Blank]

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: MK1
 Date: 2/26/2021
 Worklist: 58912
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2103740
MB concentration:	0.267
M/B Counting Uncertainty:	0.137
MB MDC:	0.193
MB Numerical Performance Indicator:	3.81
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
		LCSD58912
Count Date:	3/5/2021	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.040	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.508	
Target Conc. (pCi/L, g, F):	4.733	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.870	
LCSD/CSD Counting Uncertainty (pCi/L, g, F):	0.530	
Numerical Performance Indicator:	0.50	
Percent Recovery:	102.88%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

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

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

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/11/2021	2/11/2021
Sample I.D.:	92521567009	92521564001
Sample MS I.D.:	92521567015	92521564011
Sample MSD I.D.:	92521567016	92521564012
Spike I.D.:	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.040	24.040
Spike Volume Used in MS (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.505	0.511
MS Target Conc. (pCi/L, g, F):	9.519	9.411
MSD Aliquot (L, g, F):	0.508	0.505
MSD Target Conc. (pCi/L, g, F):	9.464	9.529
MS Spike Uncertainty (calculated):	0.114	0.113
MSD Spike Uncertainty (calculated):	0.114	0.114
Sample Result:	0.181	0.302
Sample Matrix Spike Result:	10.375	0.154
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.766	9.287
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	8.763	9.868
Sample Matrix Spike Duplicate Result:	0.699	0.770
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.680	-1.128
MS Numerical Performance Indicator:	-2.392	0.091
MSD Numerical Performance Indicator:	107.09%	95.48%
MS Percent Recovery:	90.68%	100.39%
MS Status vs Numerical Indicator:	N/A	N/A
MSD Status vs Numerical Indicator:	N/A	N/A
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	125%	125%
MS/MSD Lower % Recovery Limits:	75%	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92521567009
Sample MS I.D.:	92521567015
Sample MSD I.D.:	92521567016
Sample Matrix Spike Result:	10.375
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.766
Sample Matrix Spike Duplicate Result:	8.763
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.699
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.046
Duplicate Numerical Performance Indicator:	16.60%
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	N/A
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Handwritten notes: *WMS 12/5/18* and *WMS 3/5/21*

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
Analyst: LAL
Date: 3/8/2021
Worklist: 59076
Matrix: DW

Method Blank Assessment	
MB Sample ID	2108306
MB concentration:	0.016
MB Counting Uncertainty:	0.061
MB MDC:	0.127
MB Numerical Performance Indicator:	0.51
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS59076	Y
Count Date:	3/9/2021	3/9/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.515	0.504
Target Conc. (pCi/L, g, F):	4.670	4.770
Uncertainty (Calculated):	0.056	0.057
Result (pCi/L, g, F):	4.824	4.558
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.322	0.307
Numerical Performance Indicator:	103.30%	95.54%
Percent Recovery:	N/A	N/A
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	125%	125%
Upper % Recovery Limits:	75%	75%
Lower % Recovery Limits:		

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS59076
Duplicate Sample I.D.:	LCS59076
Sample Result (pCi/L, g, F):	4.824
Sample Result Counting Uncertainty (pCi/L, g, F):	0.322
Sample Duplicate Result (pCi/L, g, F):	4.558
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.307
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.175
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.80%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

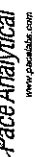
Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/12/2021	
Sample I.D.:	92521567011	
Sample MS I.D.:	92521567017	
Sample MSD I.D.:	92521567018	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.040	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.509	
MS Target Conc. (pCi/L, g, F):	9.441	
MSD Aliquot (L, g, F):	0.516	
MSD Target Conc. (pCi/L, g, F):	9.321	
MS Spike Uncertainty (calculated):	0.113	
MSD Spike Uncertainty (calculated):	0.112	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.275	
Sample Matrix Spike Result:	0.091	
Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.420	
Sample Matrix Spike Duplicate Result:	8.832	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.389	
MS Numerical Performance Indicator:	-0.549	
MSD Numerical Performance Indicator:	-3.620	
MS Percent Recovery:	96.66%	
MSD Percent Recovery:	91.79%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92521567011
Sample MS I.D.:	92521567017
Sample MSD I.D.:	92521567018
Sample Matrix Spike Result:	9.592
Sample Matrix Spike Duplicate Result:	0.420
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	8.832
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.389
Duplicate Numerical Performance Indicator:	2.607
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	7.24%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

UAm31021

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: **Re-228**
Analyst: **VAL**
Date: **2/24/2021**
Worklist: **58913**
Matrix: **WT**

Method Blank Assessment

MB Sample ID	2103741
MB concentration:	0.191
MB 2 Sigma CSU:	0.358
MB MDC:	0.740
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

LCSD (Y or N)?	N
LCSD58913	LCSD58913
Count Date:	2/26/2021
Spike I.D.:	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.674
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.817
Target Conc. (pCi/L, g, F):	4.733
Uncertainty (Calculated):	0.232
Result (pCi/L, g, F):	3.843
LCSD/CSU 2 Sigma CSU (pCi/L, g, F):	0.893
Numerical Performance Indicator:	-1.89
Percent Recovery:	81.20%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment

Sample I.D.:	Enter Duplicate sample IDs if other than LCS/CSU in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
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:

Sample Matrix Spike Control Assessment

Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample I.D.:	2/11/2021	2/9/2021
Sample MS I.D.:	92521567009	92521564001
Sample MSD I.D.:	92521567015	92521564011
Spike I.D.:	21-003	21-003
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.867	38.867
Spike Volume Used in MS (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.20	0.20
MS Target Conc. (pCi/L, g, F):	0.807	0.808
MSD Aliquot (L, g, F):	9.638	9.616
MSD Target Conc. (pCi/L, g, F):	0.804	0.808
MSD Target Conc. (pCi/L, g, F):	9.868	9.623
MS Spike Uncertainty (calculated):	0.472	0.471
MSD Spike Uncertainty (calculated):	0.474	0.472
Sample Result:	0.891	0.320
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.393	0.348
Sample Matrix Spike Result:	8.855	10.063
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.785	2.018
Sample Matrix Spike Duplicate Result:	8.720	9.243
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.753	1.842
MS Numerical Performance Indicator:	-1.738	0.118
MSD Numerical Performance Indicator:	-1.939	-0.709
MS Percent Recovery:	82.63%	101.32%
MSD Percent Recovery:	80.99%	92.73%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	MS/MSD 1	MS/MSD 2
Sample I.D.:	92521567009	92521564001
Sample MS I.D.:	92521567015	92521564011
Sample MSD I.D.:	92521567016	92521564012
Sample Matrix Spike Result:	8.855	10.063
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.785	2.018
Sample Matrix Spike Duplicate Result:	8.720	9.243
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.753	1.842
Duplicate Numerical Performance Indicator:	0.105	0.588
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	2.01%	8.85%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

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Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/5/2021
Worklist: 59077
Matrix: WT

Method Blank Assessment	
MB Sample ID	2109307
MB concentration:	0.013
MB 2 Sigma CSU:	0.299
MB MDC:	0.696
MB Numerical Performance Indicator:	0.09
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS59077	N
Count Date:	3/9/2021	LCS059077
Spike I.D.:	21-003	
Decay Corrected Spike Concentration (pCi/mL):	38.532	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.804	
Target Conc. (pCi/L, g, F):	4.794	
Uncertainty (Calculated):	0.236	
Result (pCi/L, g, F):	4.455	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.022	
Numerical Performance Indicator:	-0.63	
Percent Recovery:	92.93%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
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:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/12/2021	
Sample I.D.:	92521567011	
Sample MS I.D.:	92521567017	
Sample MSD I.D.:	92521567018	
Spike I.D.:	21-003	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.853	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.802	
MS Target Conc. (pCi/L, g, F):	9.694	
MSD Aliquot (L, g, F):	0.817	
MSD Target Conc. (pCi/L, g, F):	9.511	
MS Spike Uncertainty (calculated):	0.475	
MSD Spike Uncertainty (calculated):	0.466	
Sample Result:	0.091	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.322	
Sample Matrix Spike Result:	10.413	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.066	
Sample Matrix Spike Duplicate Result:	8.770	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.764	
MS Numerical Performance Indicator:	0.574	
MSD Numerical Performance Indicator:	-0.880	
MS Percent Recovery:	106.48%	
MSD Percent Recovery:	91.25%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92521567011
Sample MS I.D.:	92521567017
Sample Matrix Spike Result:	10.413
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.066
Sample Matrix Spike Duplicate Result:	8.770
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.764
Duplicate Numerical Performance Indicator:	1.186
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	15.40%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

March 2021

Semiannual Event



Georgia Power Co. – Plant Yates

DATA REVIEW

Metals, Radium, and General Chemistry Analyses

SDGs # 92525214, 92525245, 92525335 and 92525346

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina


Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #41025R

Review Level: Tier II

Project: 30052923.00004 and 30052922.00004



DATA REVIEW REPORT

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # 92525214, 92525245, 92525335 and 92525346 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:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92525214 92525335	YGWA-5I	92525214-1 92525335-1	Water	03/02/21		X	X	X
	YGWA-5D	92525214-2 92525335-2	Water	03/02/21		X	X	X
	DUP-1E DUP-1S	92525214-3 92525335-3	Water	03/02/21	YGWA-5D	X	X	X
	YGWA-14S	92525214-5 92525335-5	Water	03/02/21		X	X	X
	YGWA-30I	92525214-6 92525335-6	Water	03/01/21		X	X	X
	FB-01	92525214-7 92525335-7	Water	03/02/21		X	X	X
	DUP-01G DUP-01P	92525214-8 92525335-8	Water	03/02/21	YGWA-14S	X	X	X
	FB-01	92525214-9 92525335-9	Water	03/02/21		X	X	X
	YGWA-40	92525214-11 92525335-11	Water	03/04/21		X	X	X
	YGWA-17S	92525214-12 92525335-12	Water	03/03/21		X	X	X
	YGWA-18S	92525214-13 92525335-13	Water	03/03/21		X	X	X
	YGWA-18I	92525214-14 92525335-14	Water	03/03/21		X	X	X
	YGWA-39	92525214-15 92525335-15	Water	03/04/21		X	X	X
YGWA-1D	92525214-16	Water	03/03/21		X	X	X	

DATA REVIEW REPORT

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
		92525335-16						
92525214 92525335	YGWA-1I	92525214-17 92525335-17	Water	03/03/21		X	X	X
	YGWA-2I	92525214-18 92525335-18	Water	03/03/21		X	X	X
	YGWA-3I	92525214-19 92525335-19	Water	03/03/21		X	X	X
	YGWA-3D	92525214-20 92525335-20	Water	03/03/21		X	X	X
	EB-02	92525214-21 92525335-21	Water	03/03/21		X	X	X
	YGWA-4I	92525214-22 92525335-22	Water	03/03/21		X	X	X
	YGWA-20S	92525214-23 92525335-23	Water	03/03/21		X	X	X
	YGWA-21I	92525214-24 92525335-24	Water	03/04/21		X	X	X
92525245 92525346	YGWC-26S	92525245-1 92525346-1	Water	03/02/21		X	X	X
	YGWC-28I	92525245-2 92525346-2	Water	03/03/21		X	X	X
	YGWC-29I	92525245-3 92525346-3	Water	03/03/21		X	X	X
	EB-01	92525245-4 92525346-4	Water	03/03/21		X	X	X
	DUP-02	92525245-5 92525346-5	Water	03/03/21	YGWC-26I	X	X	X
	YGWC-26I	92525245-6 92525346-6	Water	03/03/21		X	X	X
	YGWV-27S	92525245-7 92525346-7	Water	03/03/21		X	X	X
	YGWC-27I	92525245-8 92525346-8	Water	03/03/21		X	X	X
	YGWC-28S	92525245-9 92525346-9	Water	03/03/21		X	X	X
	EB-01	92525237-7 92525346-10	Water	03/03/21		X	X	X

DATA REVIEW REPORT

Notes:

1. Metals and total dissolved solids (TDS) were performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride and sulfide) 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.

DATA REVIEW REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of 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 (COC) 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

DATA REVIEW REPORT

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 SM 2540C; 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 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 reported sample detection 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.

DATA REVIEW REPORT

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.

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 associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. 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-2I YGWA-3I	Barium (EB)	Detected sample results <RL and <BAL	"UB" at the RL
YGWA-18S	Calcium (EB)	Detected sample results <RL and <BAL	"UB" at the RL
DUP-01G DUP-1E YGWA-14S YGWA-15D YGWA-5I YGWA-5D	Calcium (FB) Barium (FB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration

DATA REVIEW REPORT

Sample Locations	Analytes	Sample Result	Qualification
YGWA-17S YGWA-18I	Calcium (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
YGWA-1D YGWA-1I YGWA-20S YGWA-2I YGWA-3D YGWA-3I YGWA-4I	Calcium (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
YGWA-17S YGWA-18I YGWA-18S YGWA-1D YGWA-1I YGWA-20S YGWA-3D YGWA-4I	Barium (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
YGWA-17S YGWA-18I YGWA-18S YGWA-4I	Chromium (EB)	Detected sample results <RL and <BAL	"UB" at the RL
YGWA-18I YGWA-18S YGWA-1I YGWA-2I YGWA-3D YGWA-4I	Lithium (EB)	Detected sample results <RL and <BAL	"UB" at the RL

Note:

EB = Equipment blank

RL = Reporting limit

FB = Field Blank

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

DATA REVIEW REPORT

analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD performed on samples YGWA-5I, YGWA-40, YGWA-5D, YGWA-17S and YGWC-28I exhibited recoveries and RPDs 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 RPD.

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
YGWA-5D / DUP-1E	Antimony	0.0030 U	0.0015 J	AC
	Barium	0.014	0.014	0.0%
	Boron	0.0068 J	0.013 J	AC
	Lead	0.000051 J	0.000069 J	AC
	Lithium	0.0018 J	0.0016 J	AC
YGWA-14S / DUP-01G	Barium	0.0076	0.0078	AC
	Beryllium	0.00018 J	0.00020 J	AC
	Boron	0.017 J	0.016 J	AC
YGWC-26I / DUP-02	Barium	0.064	0.065	1.6%
	Boron	0.69	0.69	0.0%
	Chromium	0.0050 U	0.00072 J	AC
	Lithium	0.0077 J	0.0078 J	AC
	Selenium	0.0034 J	0.0029 J	AC

Note:

AC = Acceptable

DATA REVIEW REPORT

The RPD between the parent samples and the field duplicate samples 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 REVIEW REPORT

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	
Field/Lab Duplicate (RPD)		X		X	
Reporting Limit Verification		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

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
Fluoride by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C
Total Dissolved Solids by SM2540C	Water	7 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. 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-1D YGWA-2I YGWA-3I	Chloride (EB)	Detected sample results <RL and <BAL	"UB" at the RL
DUP-01G DUP-1E YGWA-14S YGWA-15D YGWA-5I YGWA-5D YGWA-4I	Chloride (FB) Sulfate (FB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration

DATA REVIEW REPORT

Sample Locations	Analytes	Sample Result	Qualification
YGWA-17S YGWA-18I	Chloride (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
YGWA-18S YGWA-1I YGWA-20S YGWA-3D	Chloride (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
YGWA-17S YGWA-18S YGWA-1D YGWA-1I YGWA-2I YGWA-3D YGWA-3I	Sulfate (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration

Note:

EB = Equipment blank

RL = Reporting limit

MB = Method Blank

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 performed on sample YGWA-5I for the anions exhibited recoveries and RPDs within the control limits.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-3I	Sulfate	65.5%	64.7%
DUP-02	Sulfate	53.0%	56.0%

DATA REVIEW REPORT

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 the parent sample.

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 performed on sample YGWC-28S for TDS exhibited an RPD within the control limits.

All analytes associated with laboratory duplicate RPD were within the control limit, with the exception of the analytes presented in the following table.

Sample Location	Analytes	Laboratory RPD
YGWA-30I	TDS	56%

The criteria used to evaluate laboratory duplicate RPD are presented in the following table. In the case of a laboratory duplicate RPD deviation, the sample results are qualified. The qualifications are applied to the parent sample result associated with this SDG.

Sample Concentration	Control Limit	Sample Result	Qualification
Parent sample and laboratory sample concentration >5 times RL	Water 20%	Non-detect	UJ
		Detect	J
Parent sample and/or laboratory duplicate sample result \leq five times the RL and difference between samples >RL	Water one times RL	Non-detect	UJ
		Detect	J

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

DATA REVIEW REPORT

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
YGWA-5D / DUP-1E	TDS	52	48	8.0%
	Chloride	3.2	3.0	AC
	Sulfate	2.6	2.0	AC
YGWA-14S / DUP-01G	TDS	67	32	NC
	Chloride	4.9	5.0	AC
	Sulfate	6.0	6.1	1.7%
YGWC-26I / DUP-02	TDS	205	216	5.2%
	Chloride	16.6	16.6	0.0%
	Fluoride	0.050 J	0.10 U	AC
	Sulfate	89.3	88.8	0.6%

Notes:

AC = Acceptable

NC = Non Compliant

The analyte TDS associated with samples locations YGWA-14S and DUP-01G exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed analyte were qualified as estimated.

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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: SM4500-H+ B, SM2540C and 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 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	
Field/Lab Duplicate (RPD)		X	X		
Dilution Factor		X		X	
Moisture Content	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

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 reporting limit (RL) of 1 pCi/L.

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

DATA REVIEW REPORT

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

* = 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.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(c) = the squares of the respective standard uncertainties of these values.

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

A MS/MSD was not included in the data package.

DATA REVIEW REPORT

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

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

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

The laboratory duplicate performed on sample YGWA-5I exhibited RPDs within the control limits.

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:

For all analyses in soil matrices, 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 analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWA-5D / DUP-1S	Radium-226	1.21 +/- 0.344	0.838 +/- 0.268	AC
	Radium-228	0.457 +/- 0.363	0.784 +/- 0.426	
	Total Radium	1.67 +/- 0.707	1.62 +/- 0.694	
YGWA-14S / DUP-01P	Radium-226	0.283 +/- 0.267	0.118 +/- 0.120	AC

DATA REVIEW REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Radium-228	0.427 +/- 0.338	0.809 +/- 0.394	
	Total Radium	0.710 +/- 0.605	0.927 +/- 0.514	
YGWC-261 / DUP-02	Radium-226	0.247 +/- 0.138	0.132 +/- 0.133	AC
	Radium-228	0.172 +/- 0.331	0.222 +/- 0.291	
	Total Radium	0.419 +/- 0.469	0.354 +/- 0.424	

Notes:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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.

DATA REVIEW REPORT

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-5I – Radium 226, Radium 228 and Total Radium
- YGWA-5D – Radium-228
- YGWA-14S - Radium 226, Radium 228 and Total Radium
- YGWA-30I - Radium 226, Radium 228 and Total Radium
- FB-01 - Radium 226, Radium 228 and Total Radium
- DUP-01P – Radium 226 and Total Radium
- FB-01 - Radium 226 and Total Radium
- GWA-2 - Radium 226 and Total Radium
- YGWA-40 - Radium 226, Radium 228 and Total Radium
- YGWA-17S - Radium 226, Radium 228 and Total Radium
- YGWA-18S - Radium 226, Radium 228 and Total Radium
- YGWA-18I - Radium 228 and Total Radium
- YGWA-39 - Radium 228 and Total Radium
- YGWA-1D - Radium 226, Radium 228 and Total Radium
- YGWA-11 - Radium 226, Radium 228 and Total Radium
- YGWA-2I - Radium 226, Radium 228 and Total Radium
- YGWA-3D – Radium 226 and Total Radium
- EB-02 - Radium 226, Radium 228 and Total Radium
- YGWA-4I – Radium 228
- YGWA-20S - Radium 226, Radium 228 and Total Radium
- YGWA-21I – Radium 228
- YGWC-26S - Radium 226, Radium 228 and Total Radium
- YGWC-28I - Radium 226, Radium 228 and Total Radium
- YGWC-29I – Radium 228
- EB-01 - Radium 226, Radium 228 and Total Radium
- DUP-02 - Radium 226, Radium 228 and Total Radium

DATA REVIEW REPORT

- YGWC-26I – Radium 228 and Total Radium
- YGWC-27S - Radium 226, Radium 228 and Total Radium
- YGWC-27I – Radium 228
- YGWC-28S – Radium 228
- EB-01 - Radium 226, 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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR RADIOLOGICALS

RADIOLOGICALS: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Gas-Flow Proportional System					
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)		X		X	
Laboratory Control Sample Duplicate (LCSD)		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	
Field/Lab Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE:



DATE: May 14, 2021

PEER REVIEW: Jennifer Singer

DATE: May 18, 2021

CHAIN OF CUSTODY / DATA QUALIFIER SUMMARY TABLE





tion A

Required Client Information:

Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: Marietta, GA 30114

Phone: (770) 364-6525
Fax: [blank]
Requested Due Date: [blank]

Section B
Required Project Information:

Report To: Becky Steever

Copy To: [blank]
Purchase Order #: [blank]
Project Name: Yates AMA
Project #: [blank]

Section C
Invoice Information:

Attention: [blank]

Company Name: [blank]
Address: [blank]
Pace Quote: [blank]
Pace Project Manager: levin.herrity@pace-labs.com
Pace Profile #: 10840

Page: 1 of 4

Regulatory Agency: [blank]

State / Location: GA

CHAIN-OF-CUSTODY / Analytical Request Document

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

SAMPLE ID
One character per box.
(A-Z, 0-9/.)
Sample IDs must be unique

MATRIX CODES:
Drying Weigh DWT
Wet Weigh WWT
Wet Weigh WWT
Product P
Sealed SLD
OIM OIM
Wet WWT
A/C A/C
Other OTD
Tissue TS

NO	SAMPLE ID	WT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	TDS	Cl, F, SO4	App III/IV Metals	RAD 0315/0320	Residual Chlorine (Y/N)
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						
1	YGWA-SI	WT																	
2	YGWA-SI	WT																	
3	YGWA-SI	WT																	
4	YGWA-SI	WT																	
5	YGWA-SI	WT																	
6	YGWA-SI	WT																	
7	YGWA-SI	WT																	
8	YGWA-SI	WT																	
9	YGWA-SI	WT																	
10	YGWA-SI	WT																	
11	YGWA-SI	WT																	
12	YGWA-SI	WT																	
13	YGWA-SI	WT																	
14	YGWA-SI	WT																	
15	YGWA-SI	WT																	
16	YGWA-SI	WT																	
17	YGWA-SI	WT																	
18	YGWA-SI	WT																	
19	YGWA-SI	WT																	
20	YGWA-SI	WT																	
21	YGWA-SI	WT																	
22	YGWA-SI	WT																	
23	YGWA-SI	WT																	
24	YGWA-SI	WT																	
25	YGWA-SI	WT																	
26	YGWA-SI	WT																	
27	YGWA-SI	WT																	
28	YGWA-SI	WT																	
29	YGWA-SI	WT																	
30	YGWA-SI	WT																	
31	YGWA-SI	WT																	
32	YGWA-SI	WT																	
33	YGWA-SI	WT																	
34	YGWA-SI	WT																	
35	YGWA-SI	WT																	
36	YGWA-SI	WT																	
37	YGWA-SI	WT																	
38	YGWA-SI	WT																	
39	YGWA-SI	WT																	
40	YGWA-SI	WT																	
41	YGWA-SI	WT																	
42	YGWA-SI	WT																	
43	YGWA-SI	WT																	
44	YGWA-SI	WT																	
45	YGWA-SI	WT																	
46	YGWA-SI	WT																	
47	YGWA-SI	WT																	
48	YGWA-SI	WT																	
49	YGWA-SI	WT																	
50	YGWA-SI	WT																	

ADDITIONAL COMMENTS: [blank]

REQUISITED BY / ANALYST: [Signature]

DATE: 3-2-21

TIME: 1730

ACCEPTED BY / ANALYST: [Signature]

DATE: 3-2-21

TIME: 1600

SAMPLER NAME AND SIZE/TYPE: [blank]

PRINT Name of SAMPLER: [blank]

SIGNATURE OF SAMPLER: [Signature]

DATE Signed: 03/02/2021

TEMP IN C: 41.0

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

PH: 5.63
PH: 7.15

925524



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: (770) 384-6526
 Fax: (770) 384-6526

Section B

Required Project Information:
 Report To: Betsy Stever
 Copy To:
 Purchase Order #: Yales
 Project Name: UP Gradient
 Project #:

Section C

Invoice Information:
 Attention:
 Company Name:
 Address:
 Page Quote:
 Page Project Manager: Kevin Herring @poc@alab.com
 Page Profile #: 10840

Requested Analytical Method (Y/N):
 Residual Chlorine (Y/N):

MATERIAL	COCOD	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyte Test	Requester's Analytical Method (Y/N)	Residual Chlorine (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
YGWA-47	WT																
YGWA-46	WT																
YGWA-44	WT																
YGWA-45	WT																
YGWA-45A	WT																

Additional Comments:

RECEIVED BY / INITIATION: [Signature] DATE: 3-2-21 TIME: 1530

ACCEPTED BY / INITIATION: [Signature] DATE: 3-22-21 TIME: 1530

TEMP In C: 40

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

PH: 5.48

PH: 7.525214

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Client Information:
 Name: Georgia Power
 Address: 1070 Bridgely Mill Ave
 Location: Norcross, GA 30114
 Phone: (770) 394-5226
 Fax: []

Section B Required Project Information:
 Report To: Becky Steever
 Copy To: []
 Purchase Order #: []
 Project Name: Yates Ave - 90 Grubbs
 Project #: []

Section C Invoice Information:
 Attention: []
 Company Name: []
 Address: []
 Pace Quote: []
 Pace Project Manager: Kevin Herring@peacelabs.com
 Pace Profile #: 10840

Regulatory Agency: State / Location
 QA

SECTION B

MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)

DATE TIME DATE TIME

SAMPLE TEMP AT COLLECTION

OF CONTAINERS

Unpreserved

H2SO4
 HNO3
 HCl
 NaOH
 Na2S2O3
 Methanol
 Other

Preservatives

Analyse Test Y/N

TDS
 Cl, F, SO4
 App III/IV Metals
 RAD 8316/8320

Requested Analysis: Preserved (Y/N)

MATRIX ID
 One Character per box
 (A-Z, 0-9, /, -)
 Sample IDs must be unique

MATRIX: Drinking Water, Wastewater, Surface Water, Groundwater, Air, Sludge, Sediment, Soil, Dredge, Leachate, Stormwater, Industrial Wastewater, Other

MATRIX CODE: DW, WW, SW, GW, A, S, SO, SL, DR, LW, I, O

MATRIX CODE: WT

DATE: 3/2 11:20
 DATE: 3/2 11:30
 DATE: 3/2

OF CONTAINERS: 5, 5, 5

Analyse Test: TDS (X), Cl, F, SO4 (X), App III/IV Metals (X), RAD 8316/8320 (X)

Residual Chlorine (Y/N): 42525214

PH: 5.49
 PH: 5.78

RELINQUISHED BY / ACCEPTED BY: [Signature]
 DATE: 3/22/21
 TIME: 17:30

ACCEPTED BY / RELINQUISHED BY: [Signature]
 DATE: 3/22/21
 TIME: 17:30

TEMP In C: 4.0

Received on Ice [] (Y/N)

Custody Sealed [] (Y/N)

Samples Intact [] (Y/N)

SAMPLE COMMENTS: PH 5.49, PH 5.78

PRINT Name of SAMPLER: ROXIE RYKUSIA
 SIGNATURE OF SAMPLER: [Signature]
 DATE signed: 3/2/2021

SAMPLER MAKE AND SIGNATURE



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section B Required Project Information:
 Report To: Becky Stever
 Copy To:
 Project Name: Yates Gypsum - Up Grad.
 Project #: 10840

Section C Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin.Herring@pacelabs.com
 Pace Profile #: 10840

Regulatory Agency: GA
 State / Location: GA

Client Information:
 City: Georgia Power
 SS: 1070 Bridge Mill Ave
 State: GA 30114
 Phone: 1770.384.5525
 Fax:
 Standard Due Date:
 Purchase Order #:
 Project Name: Yates Gypsum - Up Grad.
 Project #:
 Pace Profile #: 10840

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyse Test	Y/N	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				
FB-01	WT		3/2	1520		5												
	WT		3/2	1510		1												
GWA-2	WT																	
GWA-2R	WT																	
GWA-2B	WT																	
GWA-2C	WT																	
GWA-2D	WT																	

REQUISIRIED BY/AFFILIATION	DATE	TIME	ACCEPTED BY/AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	3/22	1520	<i>[Signature]</i>	3/27	1520	Ice <input type="checkbox"/> (Y/N) Custody Sealed <input type="checkbox"/> (Y/N) Samples Intact <input type="checkbox"/> (Y/N)
<i>[Signature]</i>	3/22	1738	<i>[Signature]</i>	3/22	1730	Ice <input type="checkbox"/> (Y/N) Custody Sealed <input type="checkbox"/> (Y/N) Samples Intact <input type="checkbox"/> (Y/N)

TEMP In C

Received on Ice (Y/N)

Custody Sealed (Y/N)

Samples Intact (Y/N)

PRINT Name of SAMPLER: *Saver Summers*

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: 3/22/21

Page: 4 of 4
 COC 1 (Updated)

62525214
 04542



Don A

Unit Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: (770) 384-8526
 Project #:

Section B
 Required Project Information:

Report To: Becky Steyer
 Copy To:
 Purchase Order #:
 Project Name: Yales AP-2
 Project #:
 Attention: [Blank]
 Company Name:
 Address:
 Page Quote:
 Page Project Manager: [Blank]
 Page Profile #: 10940

Section C
 Invoice Information:

Requested Analytic: Filtered (Y/N)
 Scale / Location: QA

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
 CCC 3 APR 2015

SAMPLE ID

One Character per box.
(A-Z, 0-9 /, .)

Sample ids must be unique

MATRIX	CODED
Dinking Water	DWD
Ward	WT
Waste Water	WW
Product	PD
Sanitation	SLD
Oil	OLE
Water	WPA
AW	AW
AM	AM
OTD	OTD
Tissue	TS

MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives								Analytic Test				Residual Chlorine (Y/N)									
		START	END	DATE	TIME				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4	App III/IV Metals	RAD 9516/9520											
		DATE	TIME	DATE	TIME				Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N											
YGM-A1	WT																													
YGM-A1	WT																													
YGM-A1	WT																													
YGM-A1	WT																													
YGM-A1	WT																													
YGM-A1	WT																													
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YGM-A1	WT																													
YGM-A1	WT																													
YGM-A1	WT																													
YGM-A1	WT																													
YGM-A1	WT																													
YGM-A1	WT																													

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: KATE RYAN
 SIGNATURE OF SAMPLER: [Signature]

DATE Signed: 3/20/15

ADDITIONAL COMMENTS

3/20/15 1730 40 Y

Received on Ice (Y/N) [Blank]

Custody Sealed (Y/N) [Blank]

Color (Y/N) [Blank]

Samples (Y/N) [Blank]



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Client Information:
 Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30014
 Phone: (770) 384-6326
 Fax: _____

Section B

Requested Project Information:
 Report To: Becky Steever
 Copy To: _____
 Purchase Order #: _____
 Project Name: Yates AWA
 Project #:

Section C

Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote: _____
 Pace Project Manager: Kevin.Henry@pacelabs.com
 Pace Profile #: 10840

Regulatory Agency: _____
 Site Location: _____

Page: 1 of 4
 COC 1 of 4

ITEM #	MATERIALS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)	Notes		
				START DATE	START TIME			END DATE	END TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH					Na2S2O3	Methanol
1	YQWA-94	WT																		
2	YQWA-94S	WT																		
3	YQWA-181	WT																		
4	YQWA-181	WT																		
5	YQWA-SI	WT	312	1405			8													pH: 5.63
6	YQWA-SD	WT	312	1440			5													pH: 7.15
7	YQWA-TS-DIP-1	WT	312	-			5													
8	YQWA-181	WT																		
9	YQWA-181	WT																		
10	YQWA-90S	WT																		
11	YQWA-94	WT																		
12	YQWA-94S	WT																		

RECEIVED BY / ANALYSIS
 DATE: 3-22-11 TIME: 1736
 DATE: 3-22-11 TIME: 1600

RECEIVED BY / ANALYSIS
 DATE: 03/02/2011

SAMPLER NAME AND SERIAL NUMBER: _____
 PRINT NAME OF SAMPLER: Peter Argyrakis
 SIGNATURE OF SAMPLER: _____

TEMP in C: 41.0
 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.

Section A
 Client Information:
 Company: Georgia Power
 Address: 1070 Briaridge Mill Ave
 City: Atlanta, GA 30114
 Phone: (770) 384-5525
 Fax: _____

Section B
 Required Project Information:
 Report To: Becky Steever
 Copy To: _____
 Project Name: Yates Area
 Project #: 09-01-10
 Purchase Order #: _____
 Page Order: Kevin Herring
 Page Profile #: 10840

Section C
 Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 City: _____
 State: GA
 Zip: _____
 Requested Analytic: Filtered TMS
 Site Location: _____

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

MATRIX CODE (see valid codes to left)
 WT

SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED
 START DATE TIME: 3/1 12:10
 END DATE TIME: _____

SAMPLE TEMP AT COLLECTION
 # OF CONTAINERS: 5
 Unpreserved: H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other

Preservatives: _____

Analytes Test:
 TDS:
 Cl, F, SO4:
 App III/IV Metals:
 RAD 9315/9320:

Residual Chlorine (Y/N)
 PH 2H
 PH 5.98

ADDITONAL COMMENTS	RELEASED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP In C	Received on Ice (Y/N)	Custody Sealed/ Cooler (Y/N)	Samples Intact (Y/N)
		3/2/10	15:30	Kevin Herring	3/1/21	17:30	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Kevin Herring
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 03/02/2010



CHAIN-OF-CUSTODY / Analytical Request Document

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

Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Dalton, GA 30114
 Phone: (770) 384-6525
 Fax: _____

Project Information:
 Report To: Becky Steever
 Copy To: _____
 Project Name: Yates Area - Up Grading
 Project #: _____

Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 POC Project Manager: kevin.herring@ga.com
 POC Profile #: 10840

Regulatory Agency: _____
State / Location: _____

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (Y/N)		
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	
YQWMA-145	WT		3/2	1120	5	/											
YQWMA-301	WT		3/2	1135	5	/											
YQWMA-294	WT		3/2	1135	5	/											
YQWMA-296	WT																
YQWMA-297	WT																
YQWMA-298	WT																

Additional Comments:
 RELINQUISHED BY / APPROVAL: _____
 DATE: 3/22/21
 TIME: 17:30
 ACCEPTED BY / AFFILIATION: McLinn
 DATE: 3/22/21
 TIME: 17:30

Temperature: 4.0

Sample Conditions:
 Received on Ice (Y/N)
 Custody Sealed (Y/N)
 Cooler (Y/N)
 Samples Intact (Y/N)

PH: 5.49
5.78

Sampler Name and Signature:
 PRINT Name of SAMPLER: KOSTEL, KYLE KUSTIAH
 SIGNATURE OF SAMPLER: _____
 DATE Signed: 3/22/2021



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 4
COC 1 (updated)

Section A

Section B

Section C

Client Information: Client: Georgia Power Address: 1070 Bridge Mill Ave City: GA 30114 Phone: 770/384-6526 Fax: [blank]Requested Due Date: [blank]	Required Project Information: Report To: Becky Steever Copy To: [blank] Purchase Order #: [blank] Project Name: Yates Gypsum Project #: [blank]	Invoice Information: Attention: [blank] Company Name: [blank] Address: [blank] Page Quote: [blank] Page Project Manager: Kevin Herring Page Profile #: 10940	Regulatory Agency: GA State / Location: GA
--	---	---	---

SAMPLE ID One Character per box. (A-Z, 0-9, ., -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analyte Returned (Y/N)	Residual Chlorine (Y/N)
---	--	-------------	-------------	-------------	-------------	----------------------------------	------------------------	----------------------	----------------------	---	--------------------------------

WT	WT	WT	WT	WT	WT						
WT	WT	WT	WT	WT	WT						
WT	WT	WT	WT	WT	WT						
WT	WT	WT	WT	WT	WT						
WT	WT	WT	WT	WT	WT						
WT	WT	WT	WT	WT	WT						
WT	WT	WT	WT	WT	WT						

ADDITIONAL COMMENTS	REACQUIRED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
----------------------------	------------------------------------	-------------	-------------	----------------------------------	-------------	-------------	--------------------------

		3/22/15	1520	[Signature]	3/22/15	1520	Received on Ice <input type="checkbox"/> (Y/N)
		3/22/17	1738	[Signature]	3/22/17	1738	Custody Sealed <input type="checkbox"/> (Y/N)
							Cooler <input type="checkbox"/> (Y/N)
							Samples Intact <input type="checkbox"/> (Y/N)

SAMPLER NAME AND SIGNATURE	DATE signed:
PRINT Name of SAMPLER: Steve Swanson	3/2/12
SIGNATURE OF SAMPLER: [Signature]	

PHS-42



CHAIN-OF-CUSTODY / Analytical Request Document

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

COC 3 APR 06

Client Information: Georgia Power
 Address: 1070 Braddock Mill Ave
 City: Atlanta, GA 30114
 Phone: (770) 394-6326
 Fax: [Blank]
 Project Name: Yates AP-2
 Project #: [Blank]
 Purchase Order #: Yates AP-2
 Report To: Becky Steever
 Copy To: [Blank]
 Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 POC Name: [Blank]
 POC Title: [Blank]
 POC Email: kevin.herrity@pacelabs.com
 POC Phone: 10840
 Regulatory Agency: [Blank]
 State / Location: GA

Section B Required Project Information:
 Section C Invoice Information:
 Section D Additional Comments

MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyse/ Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
		START DATE	END DATE						
YGMW-11	WT								
YGMW-12	WT								
YGMW-13	WT								
YGMW-14	WT								
YGMW-15	WT								
YGMW-16	WT								
YGMW-17	WT								
YGMW-18	WT								
YGMW-19	WT								
YGMW-20	WT								
YGMW-21	WT								
YGMW-22	WT								
YGMW-23	WT								
YGMW-24	WT								
YGMW-25	WT								
YGMW-26	WT								
YGMW-27	WT								
YGMW-28	WT								
YGMW-29	WT								
YGMW-30	WT								
YGMW-31	WT								
YGMW-32	WT								

REMOVED BY / APPROVAL	DATE	TIME	ACCEPTED BY / APPROVAL	DATE	TIME	TEMP In C	Received on Ice (Y/N)	Custody Sealed / Cooler (Y/N)	Samples Intact (Y/N)
[Signature]	3/21	1730	[Signature]	3/21	1730	4.0	Y	N	Y

Additional Comments: [Blank]

Sampler Name and Signature: [Blank]

Print Name of Sampler: KATHY P. HENRICE

Signature of Sampler: [Signature]

Date Signed: 3/21

PH: 5.38

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier
92525335	YGWA-5I	6010D	Calcium	2.6	mg/L	UB
		6020B	Barium	0.019	mg/L	UB
		300	Chloride	4.3	mg/L	UB
		300	Sulfate	2.3	mg/L	UB
	YGWA-5D	6010D	Calcium	1.6	mg/L	UB
		6020B	Barium	0.014	mg/L	UB
		300	Chloride	3.2	mg/L	UB
		300	Sulfate	2.6	mg/L	UB
	DUP-1E	6010D	Calcium	1.5	mg/L	UB
		6020B	Barium	0.014	mg/L	UB
		300	Chloride	3.0	mg/L	UB
	YGWA-14S	300	Sulfate	2.0	mg/L	UB
		6010D	Calcium	1.2	mg/L	UB
		6020B	Barium	0.0076	mg/L	UB
		300	Chloride	4.9	mg/L	UB
		300	Sulfate	6.0	mg/L	UB
	DUP-01G	SM2540C	TDS	67.0	mg/L	J
		6010D	Calcium	1.2	mg/L	UB
		6020B	Barium	0.0078	mg/L	UB
		300	Chloride	5.0	mg/L	UB
		300	Sulfate	6.1	mg/L	UB
	YGWA-17S	SM2540C	TDS	32.0	mg/L	J
		6010D	Calcium	2.5	mg/L	UB
		6020B	Barium	0.017	mg/L	UB
		6020B	Chromium	0.005	mg/L	UB
		300	Chloride	7.1	mg/L	UB
	YGWA-18S	300	Sulfate	5.2	mg/L	UB
		6010D	Calcium	1.0	mg/L	UB
		6020B	Barium	0.017	mg/L	UB
		6020B	Chromium	0.005	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	7.2	mg/L	UB
	YGWA-18I	300	Sulfate	1.0	mg/L	UB
		6010D	Calcium	5.2	mg/L	UB
		6020B	Barium	0.023	mg/L	UB
		6020B	Chromium	0.005	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
	YGWA-1D	300	Chloride	7.0	mg/L	UB
		6010D	Calcium	14.1	mg/L	UB
		6020B	Barium	0.0068	mg/L	UB
6020B		Lithium	0.03	mg/L	UB	
300		Chloride	1.0	mg/L	UB	
		300	Sulfate	9.0	mg/L	UB
		6010D	Calcium	1.8	mg/L	UB

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier
	YGWA-1I	6020B	Barium	0.0094	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	1.2	mg/L	UB
		300	Sulfate	4.4	mg/L	UB
	YGWA-2I	6010D	Calcium	25.6	mg/L	UB
		6020B	Barium	0.0050	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	1.0	mg/L	UB
	YGWA-3I	300	Sulfate	10.6	mg/L	UB
		6010D	Calcium	20.6	mg/L	UB
		6020B	Barium	0.0050	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
	YGWA-3D	300	Chloride	1.0	mg/L	UB
		300	Sulfate	9.6	mg/L	UBJ
		6010D	Calcium	29.8	mg/L	UB
		6020B	Barium	0.0064	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
	YGWA-4I	300	Chloride	1.1	mg/L	UB
		300	Sulfate	7.0	mg/L	UB
		6010D	Calcium	7.7	mg/L	UB
		6020B	Barium	0.014	mg/L	UB
		6020B	Chromium	0.005	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
	YGWA-20S	300	Chloride	4.1	mg/L	UB
		300	Sulfate	7.8	mg/L	UB
		6010D	Calcium	2.4	mg/L	UB
	YGWA-20S	6020B	Barium	0.015	mg/L	UB
		300	Chloride	2.7	mg/L	UB
YGWA-30I	SM2540C	TDS	23.0	mg/L	J	
92525214	No Qualifiers Added					
92525245	No Qualifiers Added					
92525346	DUP-02	300	Sulfate	88.8	mg/L	J

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

UB = not detected due to blank contaminant
J/UJ = Estimated

March 22, 2021

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

RE: Project: YATES
Pace Project No.: 92525346

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES
Pace Project No.: 92525346

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92525346

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525346001	YGWC-26S	Water	03/02/21 14:00	03/02/21 17:30
92525346002	YGWC-28I	Water	03/03/21 13:40	03/05/21 09:20
92525346003	YGWC-29I	Water	03/03/21 10:45	03/05/21 09:20
92525346004	EB-01	Water	03/03/21 16:25	03/05/21 09:20
92525346005	DUP-02	Water	03/03/21 00:00	03/05/21 09:20
92525346006	YGWC-26I	Water	03/03/21 09:15	03/05/21 09:20
92525346007	YGWC-27S	Water	03/03/21 14:40	03/05/21 09:20
92525346008	YGWC-27I	Water	03/03/21 15:40	03/05/21 09:20
92525346009	YGWC-28S	Water	03/03/21 11:55	03/05/21 09:20
92525346010	EB-01	Water	03/03/21 10:20	03/05/21 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525346

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525346001	YGWC-26S	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525346002	YGWC-28I	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346003	YGWC-29I	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346004	EB-01	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346005	DUP-02	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346006	YGWC-26I	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346007	YGWC-27S	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346008	YGWC-27I	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346009	YGWC-28S	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346010	EB-01	EPA 6010D	KH	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525346

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	12
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525346

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525346001	YGWC-26S					
	Performed by	CUSTOME			03/08/21 09:06	
		R				
	pH	5.38	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	12.9	mg/L	1.0	03/09/21 04:03	
EPA 6020B	Barium	0.031	mg/L	0.0050	03/05/21 19:12	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	03/05/21 19:12	
EPA 6020B	Boron	0.57	mg/L	0.040	03/05/21 19:12	
EPA 6020B	Chromium	0.0010J	mg/L	0.0050	03/05/21 19:12	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	03/05/21 19:12	
EPA 6020B	Lead	0.000056J	mg/L	0.0010	03/05/21 19:12	
SM 2450C-2011	Total Dissolved Solids	154	mg/L	10.0	03/05/21 11:05	
EPA 300.0 Rev 2.1 1993	Chloride	13.2	mg/L	1.0	03/07/21 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	92.7	mg/L	1.0	03/07/21 02:24	
92525346002	YGWC-28I					
	Performed by	CUSTOME			03/08/21 09:06	
		R				
	pH	66.51	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	30.9	mg/L	1.0	03/10/21 04:02	
EPA 6020B	Barium	0.077	mg/L	0.0050	03/11/21 15:19	
EPA 6020B	Boron	1.8	mg/L	0.040	03/11/21 15:19	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	03/11/21 15:19	
EPA 6020B	Lithium	0.0063J	mg/L	0.030	03/11/21 15:19	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	03/11/21 15:19	
SM 2450C-2011	Total Dissolved Solids	184	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	14.6	mg/L	1.0	03/13/21 23:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.072J	mg/L	0.10	03/13/21 23:51	
EPA 300.0 Rev 2.1 1993	Sulfate	8.6	mg/L	1.0	03/13/21 23:51	
92525346003	YGWC-29I					
	Performed by	CUSTOME			03/08/21 09:06	
		R				
	pH	6.27	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	9.5	mg/L	1.0	03/10/21 04:22	
EPA 6020B	Barium	0.059	mg/L	0.0050	03/11/21 15:38	
EPA 6020B	Boron	0.62	mg/L	0.040	03/11/21 15:38	
EPA 6020B	Cadmium	0.00029J	mg/L	0.00050	03/11/21 15:38	
EPA 6020B	Lead	0.00016J	mg/L	0.0010	03/11/21 15:38	
EPA 6020B	Lithium	0.0054J	mg/L	0.030	03/11/21 15:38	
SM 2450C-2011	Total Dissolved Solids	110	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	03/14/21 00:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.10	03/14/21 00:06	
EPA 300.0 Rev 2.1 1993	Sulfate	26.6	mg/L	1.0	03/14/21 00:06	
92525346005	DUP-02					
EPA 6010D	Calcium	16.0	mg/L	1.0	03/10/21 04:31	
EPA 6020B	Barium	0.065	mg/L	0.0050	03/11/21 15:50	
EPA 6020B	Boron	0.69	mg/L	0.040	03/11/21 15:50	
EPA 6020B	Chromium	0.00072J	mg/L	0.0050	03/11/21 15:50	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525346

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525346005	DUP-02					
EPA 6020B	Lithium	0.0078J	mg/L	0.030	03/11/21 15:50	
EPA 6020B	Selenium	0.0029J	mg/L	0.0050	03/11/21 15:50	
SM 2450C-2011	Total Dissolved Solids	216	mg/L	10.0	03/06/21 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	16.6	mg/L	1.0	03/14/21 01:08	
EPA 300.0 Rev 2.1 1993	Sulfate	88.8	mg/L	1.0	03/14/21 01:08	M1
92525346006	YGWC-26I					
	Performed by	CUSTOMER			03/08/21 09:06	
	pH	5.93	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	16.1	mg/L	1.0	03/10/21 04:36	
EPA 6020B	Barium	0.064	mg/L	0.0050	03/11/21 15:56	
EPA 6020B	Boron	0.69	mg/L	0.040	03/11/21 15:56	
EPA 6020B	Lithium	0.0077J	mg/L	0.030	03/11/21 15:56	
EPA 6020B	Selenium	0.0034J	mg/L	0.0050	03/11/21 15:56	
SM 2450C-2011	Total Dissolved Solids	205	mg/L	10.0	03/06/21 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	16.6	mg/L	1.0	03/14/21 01:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	03/14/21 01:55	
EPA 300.0 Rev 2.1 1993	Sulfate	89.3	mg/L	1.0	03/14/21 01:55	
92525346007	YGWC-27S					
	Performed by	CUSTOMER			03/08/21 09:06	
	pH	6.35	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	30.2	mg/L	1.0	03/10/21 04:50	
EPA 6020B	Barium	0.075	mg/L	0.0050	03/11/21 16:01	
EPA 6020B	Boron	1.2	mg/L	0.040	03/11/21 16:01	
EPA 6020B	Chromium	0.00058J	mg/L	0.0050	03/11/21 16:01	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	03/11/21 16:01	
SM 2450C-2011	Total Dissolved Solids	178	mg/L	10.0	03/06/21 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	03/14/21 03:10	
EPA 300.0 Rev 2.1 1993	Sulfate	451	mg/L	11.0	03/14/21 05:13	
92525346008	YGWC-27I					
	Performed by	CUSTOMER			03/08/21 09:06	
	pH	6.43	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	25.7	mg/L	1.0	03/10/21 04:55	
EPA 6020B	Barium	0.080	mg/L	0.0050	03/11/21 16:07	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	03/11/21 16:07	
EPA 6020B	Boron	2.0	mg/L	0.040	03/11/21 16:07	
EPA 6020B	Cobalt	0.0042J	mg/L	0.0050	03/11/21 16:07	
EPA 6020B	Lithium	0.0066J	mg/L	0.030	03/11/21 16:07	
EPA 6020B	Molybdenum	0.0017J	mg/L	0.010	03/11/21 16:07	
SM 2450C-2011	Total Dissolved Solids	173	mg/L	10.0	03/06/21 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	13.0	mg/L	1.0	03/14/21 03:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.10	03/14/21 03:26	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	03/14/21 03:26	

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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525346

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525346009	YGWC-28S					
	Performed by	CUSTOME			03/08/21 09:06	
		R				
	pH	6.61	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	28.4	mg/L	1.0	03/10/21 05:00	
EPA 6020B	Barium	0.25	mg/L	0.0050	03/11/21 16:13	
EPA 6020B	Boron	2.3	mg/L	0.040	03/11/21 16:13	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	03/11/21 16:13	
EPA 6020B	Molybdenum	0.00083J	mg/L	0.010	03/11/21 16:13	
SM 2450C-2011	Total Dissolved Solids	217	mg/L	10.0	03/06/21 12:29	
EPA 300.0 Rev 2.1 1993	Chloride	18.0	mg/L	1.0	03/14/21 03:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	03/14/21 03:41	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	03/14/21 03:41	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-26S		Lab ID: 92525346001		Collected: 03/02/21 14:00		Received: 03/02/21 17:30		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		03/08/21 09:06		
pH	5.38	Std. Units			1		03/08/21 09:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	12.9	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 04:03	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 19:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 19:12	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 19:12	7440-39-3	
Beryllium	0.00016J	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 19:12	7440-41-7	
Boron	0.57	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 19:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 19:12	7440-43-9	
Chromium	0.0010J	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 19:12	7440-47-3	
Cobalt	0.0021J	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 19:12	7440-48-4	
Lead	0.000056J	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 19:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 19:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 19:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 19:12	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	154	mg/L	10.0	10.0	1		03/05/21 11:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.2	mg/L	1.0	0.60	1		03/07/21 02:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/07/21 02:24	16984-48-8	
Sulfate	92.7	mg/L	1.0	0.50	1		03/07/21 02:24	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-281		Lab ID: 92525346002		Collected: 03/03/21 13:40		Received: 03/05/21 09:20		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		03/08/21 09:06		
pH	66.51	Std. Units			1		03/08/21 09:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	30.9	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:02	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	0.00028	1	03/09/21 12:48	03/11/21 15:19	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 15:19	7440-38-2	
Barium	0.077	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 15:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 15:19	7440-41-7	
Boron	1.8	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 15:19	7440-42-8	
Cadmium	0.00014J	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 15:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 15:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 15:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 15:19	7439-92-1	
Lithium	0.0063J	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 15:19	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 15:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 15:19	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	184	mg/L	10.0	10.0	1		03/06/21 13:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	14.6	mg/L	1.0	0.60	1		03/13/21 23:51	16887-00-6	
Fluoride	0.072J	mg/L	0.10	0.050	1		03/13/21 23:51	16984-48-8	
Sulfate	8.6	mg/L	1.0	0.50	1		03/13/21 23:51	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-29I		Lab ID: 92525346003		Collected: 03/03/21 10:45		Received: 03/05/21 09:20		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		03/08/21 09:06		
pH	6.27	Std. Units			1		03/08/21 09:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.5	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:22	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/09/21 12:48	03/11/21 15:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 15:38	7440-38-2	
Barium	0.059	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 15:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 15:38	7440-41-7	
Boron	0.62	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 15:38	7440-42-8	
Cadmium	0.00029J	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 15:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 15:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 15:38	7440-48-4	
Lead	0.00016J	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 15:38	7439-92-1	
Lithium	0.0054J	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 15:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 15:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 15:38	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	110	mg/L	10.0	10.0	1		03/06/21 13:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.7	mg/L	1.0	0.60	1		03/14/21 00:06	16887-00-6	
Fluoride	0.056J	mg/L	0.10	0.050	1		03/14/21 00:06	16984-48-8	
Sulfate	26.6	mg/L	1.0	0.50	1		03/14/21 00:06	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: EB-01		Lab ID: 92525346004		Collected: 03/03/21 16:25	Received: 03/05/21 09:20	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:26	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	0.00028	1	03/09/21 12:48	03/11/21 15:44	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 15:44	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 15:44	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 15:44	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 15:44	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 15:44	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 15:44	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 15:44	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 15:44	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 15:44	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 15:44	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 15:44	7782-49-2		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/06/21 13:12			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/14/21 00:22	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 00:22	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/14/21 00:22	14808-79-8		

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: DUP-02		Lab ID: 92525346005		Collected: 03/03/21 00:00		Received: 03/05/21 09:20		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	16.0	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:31	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	0.00028	1	03/09/21 12:48	03/11/21 15:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 15:50	7440-38-2	
Barium	0.065	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 15:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 15:50	7440-41-7	
Boron	0.69	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 15:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 15:50	7440-43-9	
Chromium	0.00072J	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 15:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 15:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 15:50	7439-92-1	
Lithium	0.0078J	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 15:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 15:50	7439-98-7	
Selenium	0.0029J	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 15:50	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	216	mg/L	10.0	10.0	1		03/06/21 13:12		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	16.6	mg/L	1.0	0.60	1		03/14/21 01:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 01:08	16984-48-8	
Sulfate	88.8	mg/L	1.0	0.50	1		03/14/21 01:08	14808-79-8	M1

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-261		Lab ID: 92525346006		Collected: 03/03/21 09:15		Received: 03/05/21 09:20		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		03/08/21 09:06		
pH	5.93	Std. Units			1		03/08/21 09:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	16.1	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:36	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	0.00028	1	03/09/21 12:48	03/11/21 15:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 15:56	7440-38-2	
Barium	0.064	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 15:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 15:56	7440-41-7	
Boron	0.69	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 15:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 15:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 15:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 15:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 15:56	7439-92-1	
Lithium	0.0077J	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 15:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 15:56	7439-98-7	
Selenium	0.0034J	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 15:56	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	205	mg/L	10.0	10.0	1		03/06/21 13:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	16.6	mg/L	1.0	0.60	1		03/14/21 01:55	16887-00-6	
Fluoride	0.050J	mg/L	0.10	0.050	1		03/14/21 01:55	16984-48-8	
Sulfate	89.3	mg/L	1.0	0.50	1		03/14/21 01:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-27S		Lab ID: 92525346007		Collected: 03/03/21 14:40		Received: 03/05/21 09:20		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		03/08/21 09:06		
pH	6.35	Std. Units			1		03/08/21 09:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	30.2	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:50	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	0.00028	1	03/09/21 12:48	03/11/21 16:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 16:01	7440-38-2	
Barium	0.075	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 16:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 16:01	7440-41-7	
Boron	1.2	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 16:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 16:01	7440-43-9	
Chromium	0.00058J	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 16:01	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 16:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 16:01	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 16:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 16:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 16:01	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	178	mg/L	10.0	10.0	1		03/06/21 13:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.0	mg/L	1.0	0.60	1		03/14/21 03:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 03:10	16984-48-8	
Sulfate	451	mg/L	11.0	5.5	11		03/14/21 05:13	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-271		Lab ID: 92525346008		Collected: 03/03/21 15:40		Received: 03/05/21 09:20		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		03/08/21 09:06		
pH	6.43	Std. Units			1		03/08/21 09:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	25.7	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:55	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	0.00028	1	03/09/21 12:48	03/11/21 16:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 16:07	7440-38-2	
Barium	0.080	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 16:07	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 16:07	7440-41-7	
Boron	2.0	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 16:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 16:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 16:07	7440-47-3	
Cobalt	0.0042J	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 16:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 16:07	7439-92-1	
Lithium	0.0066J	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 16:07	7439-93-2	
Molybdenum	0.0017J	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 16:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 16:07	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	173	mg/L	10.0	10.0	1		03/06/21 13:12		
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		03/14/21 03:26	16887-00-6	
Fluoride	0.058J	mg/L	0.10	0.050	1		03/14/21 03:26	16984-48-8	
Sulfate	2.6	mg/L	1.0	0.50	1		03/14/21 03:26	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-28S		Lab ID: 92525346009		Collected: 03/03/21 11:55		Received: 03/05/21 09:20		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		03/08/21 09:06		
pH	6.61	Std. Units			1		03/08/21 09:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	28.4	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 05:00	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	0.00028	1	03/09/21 12:48	03/11/21 16:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 16:13	7440-38-2	
Barium	0.25	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 16:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 16:13	7440-41-7	
Boron	2.3	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 16:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 16:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 16:13	7440-47-3	
Cobalt	0.0010J	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 16:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 16:13	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 16:13	7439-93-2	
Molybdenum	0.00083J	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 16:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 16:13	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	217	mg/L	10.0	10.0	1		03/06/21 12:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.0	mg/L	1.0	0.60	1		03/14/21 03:41	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.050	1		03/14/21 03:41	16984-48-8	
Sulfate	4.9	mg/L	1.0	0.50	1		03/14/21 03:41	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: EB-01		Lab ID: 92525346010		Collected: 03/03/21 10:20	Received: 03/05/21 09:20	Matrix: Water			
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	ND	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 05:05	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	0.00028	1	03/09/21 12:48	03/11/21 16:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 16:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 16:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 16:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 16:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 16:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 16:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 16:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 16:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 16:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 16:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 16:18	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/06/21 12:29		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		03/14/21 12:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 12:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/14/21 12:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604223	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525346001

METHOD BLANK: 3183140 Matrix: Water

Associated Lab Samples: 92525346001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/09/21 01:57	

LABORATORY CONTROL SAMPLE: 3183141

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183142 3183143

Parameter	Units	3183142		3183143		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	2.6	1	1	3.6	3.5	105	94	75-125	3	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 605191 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

METHOD BLANK: 3188288 Matrix: Water
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/10/21 03:52	

LABORATORY CONTROL SAMPLE: 3188289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188290 3188291

Parameter	Units	92525346002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	30.9	1	1	32.1	31.3	120	44	75-125	2	20	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604224 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525346001

METHOD BLANK: 3183148 Matrix: Water
Associated Lab Samples: 92525346001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/05/21 16:31	
Arsenic	mg/L	ND	0.0050	0.00078	03/05/21 16:31	
Barium	mg/L	ND	0.0050	0.00071	03/05/21 16:31	
Beryllium	mg/L	ND	0.00050	0.000046	03/05/21 16:31	
Boron	mg/L	ND	0.040	0.0052	03/05/21 16:31	
Cadmium	mg/L	ND	0.00050	0.00012	03/05/21 16:31	
Chromium	mg/L	ND	0.0050	0.00055	03/05/21 16:31	
Cobalt	mg/L	ND	0.0050	0.00038	03/05/21 16:31	
Lead	mg/L	ND	0.0010	0.000036	03/05/21 16:31	
Lithium	mg/L	ND	0.030	0.00081	03/05/21 16:31	
Molybdenum	mg/L	ND	0.010	0.00069	03/05/21 16:31	
Selenium	mg/L	ND	0.0050	0.0016	03/05/21 16:31	

LABORATORY CONTROL SAMPLE: 3183149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.91	91	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183150 3183151

Parameter	Units	MS 92525335002		MSD 3183151		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	Spike Conc.	Spike Conc.	Result							
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	105	106	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20	
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	96	99	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

Parameter	Units	3183150		3183151		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92525335002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Boron	mg/L	0.0068J	1	1	0.96	0.96	96	96	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	99	98	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Lead	mg/L	0.000051J	0.1	0.1	0.098	0.095	98	95	75-125	3	20	
Lithium	mg/L	0.0018J	0.1	0.1	0.10	0.097	98	95	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 605211 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

METHOD BLANK: 3188368 Matrix: Water
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00043J	0.0030	0.00028	03/11/21 14:28	
Arsenic	mg/L	ND	0.0050	0.00078	03/11/21 14:28	
Barium	mg/L	ND	0.0050	0.00071	03/11/21 14:28	
Beryllium	mg/L	ND	0.00050	0.000046	03/11/21 14:28	
Boron	mg/L	ND	0.040	0.0052	03/11/21 14:28	
Cadmium	mg/L	ND	0.00050	0.00012	03/11/21 14:28	
Chromium	mg/L	ND	0.0050	0.00055	03/11/21 14:28	
Cobalt	mg/L	ND	0.0050	0.00038	03/11/21 14:28	
Lead	mg/L	ND	0.0010	0.000036	03/11/21 14:28	
Lithium	mg/L	ND	0.030	0.00081	03/11/21 14:28	
Molybdenum	mg/L	ND	0.010	0.00069	03/11/21 14:28	
Selenium	mg/L	ND	0.0050	0.0016	03/11/21 14:28	

LABORATORY CONTROL SAMPLE: 3188369

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	0.093	93	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188370 3188371

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result								
Antimony	mg/L	0.012	0.1	0.1	0.11	0.11	97	101	75-125	4	20		
Arsenic	mg/L	0.13	0.1	0.1	0.23	0.23	92	93	75-125	0	20		
Barium	mg/L	0.12	0.1	0.1	0.26	0.27	138	146	75-125	3	20 M1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

Parameter	Units	3188370		3188371		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525662001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Beryllium	mg/L	ND	0.1	0.1	0.078	0.080	78	80	75-125	2	20		
Boron	mg/L	1.1	1	1	1.9	1.9	79	85	75-125	3	20		
Cadmium	mg/L	0.00021J	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.090	0.092	89	92	75-125	3	20		
Cobalt	mg/L	0.0030J	0.1	0.1	0.092	0.094	89	91	75-125	2	20		
Lead	mg/L	0.000081J	0.1	0.1	0.088	0.091	87	91	75-125	4	20		
Lithium	mg/L	0.19	0.1	0.1	0.26	0.27	73	77	75-125	2	20	M1	
Molybdenum	mg/L	0.035	0.1	0.1	0.12	0.13	89	91	75-125	2	20		
Selenium	mg/L	0.086	0.1	0.1	0.18	0.18	89	97	75-125	4	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604527	Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525346001

METHOD BLANK: 3184654 Matrix: Water

Associated Lab Samples: 92525346001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 11:03	

LABORATORY CONTROL SAMPLE: 3184655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	375	94	90-111	

SAMPLE DUPLICATE: 3184656

Parameter	Units	92525799001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2090	1960	6	10	

SAMPLE DUPLICATE: 3184657

Parameter	Units	92525341004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	152	9	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604764 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008

METHOD BLANK: 3186295 Matrix: Water
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 13:06	

LABORATORY CONTROL SAMPLE: 3186296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	368	92	90-111	

SAMPLE DUPLICATE: 3186298

Parameter	Units	92525335021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	101	1	10	

SAMPLE DUPLICATE: 3186336

Parameter	Units	92525919008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	283	6	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604765 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525346009, 92525346010

METHOD BLANK: 3186310 Matrix: Water
Associated Lab Samples: 92525346009, 92525346010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 12:29	

LABORATORY CONTROL SAMPLE: 3186311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	371	93	90-111	

SAMPLE DUPLICATE: 3186312

Parameter	Units	92525346009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	217	220	1	10	

SAMPLE DUPLICATE: 3186313

Parameter	Units	92525824003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	61.0	30	10	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604544 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525346001

METHOD BLANK: 3184710 Matrix: Water
Associated Lab Samples: 92525346001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/06/21 20:08	
Fluoride	mg/L	ND	0.10	0.050	03/06/21 20:08	
Sulfate	mg/L	ND	1.0	0.50	03/06/21 20:08	

LABORATORY CONTROL SAMPLE: 3184711

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	2.5	98	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184712 3184713

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525335001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	4.3	50	50	53.4	53.9	98	99	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	105	90-110	1	10		
Sulfate	mg/L	2.3	50	50	51.8	52.4	99	100	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184714 3184715

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525341001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.5	50	50	54.6	54.8	98	98	90-110	0	10		
Fluoride	mg/L	0.18	2.5	2.5	3.3	3.3	124	125	90-110	1	10 M1		
Sulfate	mg/L	94.2	50	50	135	135	81	82	90-110	0	10 M1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch:	606456	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

METHOD BLANK: 3195140 Matrix: Water
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 20:29	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 20:29	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 20:29	

LABORATORY CONTROL SAMPLE: 3195141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195142 3195143

Parameter	Units	92525335019		3195143		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	0.99J	50	50	52.8	52.3	104	103	90-110	1	10
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.7	106	104	90-110	2	10
Sulfate	mg/L	9.6	50	50	65.5	64.7	112	110	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195144 3195145

Parameter	Units	92525346005		3195145		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	16.6	50	50	66.4	68.7	100	104	90-110	3	10
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	103	90-110	5	10
Sulfate	mg/L	88.8	50	50	115	117	53	56	90-110	1	10 M1

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QUALIFIERS

Project: YATES
Pace Project No.: 92525346

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.

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.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525346001	YGWC-26S				
92525346002	YGWC-28I				
92525346003	YGWC-29I				
92525346006	YGWC-26I				
92525346007	YGWC-27S				
92525346008	YGWC-27I				
92525346009	YGWC-28S				
92525346001	YGWC-26S	EPA 3010A	604223	EPA 6010D	604309
92525346002	YGWC-28I	EPA 3010A	605191	EPA 6010D	605246
92525346003	YGWC-29I	EPA 3010A	605191	EPA 6010D	605246
92525346004	EB-01	EPA 3010A	605191	EPA 6010D	605246
92525346005	DUP-02	EPA 3010A	605191	EPA 6010D	605246
92525346006	YGWC-26I	EPA 3010A	605191	EPA 6010D	605246
92525346007	YGWC-27S	EPA 3010A	605191	EPA 6010D	605246
92525346008	YGWC-27I	EPA 3010A	605191	EPA 6010D	605246
92525346009	YGWC-28S	EPA 3010A	605191	EPA 6010D	605246
92525346010	EB-01	EPA 3010A	605191	EPA 6010D	605246
92525346001	YGWC-26S	EPA 3005A	604224	EPA 6020B	604329
92525346002	YGWC-28I	EPA 3005A	605211	EPA 6020B	605315
92525346003	YGWC-29I	EPA 3005A	605211	EPA 6020B	605315
92525346004	EB-01	EPA 3005A	605211	EPA 6020B	605315
92525346005	DUP-02	EPA 3005A	605211	EPA 6020B	605315
92525346006	YGWC-26I	EPA 3005A	605211	EPA 6020B	605315
92525346007	YGWC-27S	EPA 3005A	605211	EPA 6020B	605315
92525346008	YGWC-27I	EPA 3005A	605211	EPA 6020B	605315
92525346009	YGWC-28S	EPA 3005A	605211	EPA 6020B	605315
92525346010	EB-01	EPA 3005A	605211	EPA 6020B	605315
92525346001	YGWC-26S	SM 2450C-2011	604527		
92525346002	YGWC-28I	SM 2450C-2011	604764		
92525346003	YGWC-29I	SM 2450C-2011	604764		
92525346004	EB-01	SM 2450C-2011	604764		
92525346005	DUP-02	SM 2450C-2011	604764		
92525346006	YGWC-26I	SM 2450C-2011	604764		
92525346007	YGWC-27S	SM 2450C-2011	604764		
92525346008	YGWC-27I	SM 2450C-2011	604764		
92525346009	YGWC-28S	SM 2450C-2011	604765		
92525346010	EB-01	SM 2450C-2011	604765		
92525346001	YGWC-26S	EPA 300.0 Rev 2.1 1993	604544		
92525346002	YGWC-28I	EPA 300.0 Rev 2.1 1993	606456		
92525346003	YGWC-29I	EPA 300.0 Rev 2.1 1993	606456		
92525346004	EB-01	EPA 300.0 Rev 2.1 1993	606456		
92525346005	DUP-02	EPA 300.0 Rev 2.1 1993	606456		
92525346006	YGWC-26I	EPA 300.0 Rev 2.1 1993	606456		
92525346007	YGWC-27S	EPA 300.0 Rev 2.1 1993	606456		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525346008	YGWC-271	EPA 300.0 Rev 2.1 1993	606456		
92525346009	YGWC-28S	EPA 300.0 Rev 2.1 1993	606456		
92525346010	EB-01	EPA 300.0 Rev 2.1 1993	606456		

REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020 Page 1 of 2

Document No.: F-CAR-CS-033-Rev.07

Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia power

Project #:

WO#: 92525346



Courier: Commercial Fed Ex Pace UPS USPS Client Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 3/3/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 Wet Blue None

Yes No N/A

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) 1.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A
 Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30114
 Phone: (770) 394-5528
 Fax: [Blank]
 Project Name: Yalla AP-2
 Project #: [Blank]
 Purchase Order #: [Blank]
 Invoice Information:
 Attention: Abby Steiner
 Company Name: [Blank]
 Address: [Blank]
 P.O. Box: [Blank]
 P.O. Profile #: 10840
 Regulatory Agency: [Blank]
 State/Location: GA

Section B
 Required Project Information:
 Report To: Abby Steiner
 Copy To: [Blank]
Section C
 Sample Information:
 Sample ID: **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 [Blank] END [Blank]
 Date: [Blank] Time: [Blank]
 Sample Temp at Collection: [Blank]
 # of Containers: Unpreserved [Blank]
 Preservatives: H2SO4 [Blank], HNO3 [Blank], HCl [Blank], NaOH [Blank], Na2S2O3 [Blank], Methanol [Blank], Other [Blank]
 Analytes: Test Y/N
 TDS [Blank], Cl, F, SO4 [Blank], App II/IV Metals [Blank], RAD 8316/8320 [Blank]
 Residual Chlorine (Y/N): 92525316

Matrix Code	Sample Type	Date	Time	Temp	# Containers	Preservatives	Analytes	Temp in C	Received on Ice (Y/N)	Custody Sealed/Cooled (Y/N)	Samples Intact (Y/N)
YGMW-11	WT						X X X X				
YGMW-12	WT						X X X X				
YGMW-13	WT						X X X X				
YGMW-14	WT						X X X X				
YGMW-15	WT						X X X X				
YGMW-16	WT						X X X X				
YGMW-17	WT						X X X X				
YGMW-18	WT						X X X X				
YGMW-19	WT						X X X X				
YGMW-20	WT						X X X X				
YGMW-21	WT						X X X X				
YGMW-22	WT						X X X X				
YGMW-23	WT						X X X X				
YGMW-24	WT						X X X X				
YGMW-25	WT						X X X X				
YGMW-26	WT						X X X X				
YGMW-27	WT						X X X X				
YGMW-28	WT						X X X X				
YGMW-29	WT						X X X X				
YGMW-30	WT						X X X X				
YGMW-31	WT						X X X X				
YGMW-32	WT						X X X X				
YGMW-33	WT						X X X X				
YGMW-34	WT						X X X X				
YGMW-35	WT						X X X X				
YGMW-36	WT						X X X X				
YGMW-37	WT						X X X X				
YGMW-38	WT						X X X X				
YGMW-39	WT						X X X X				
YGMW-40	WT						X X X X				
YGMW-41	WT						X X X X				
YGMW-42	WT						X X X X				
YGMW-43	WT						X X X X				
YGMW-44	WT						X X X X				
YGMW-45	WT						X X X X				
YGMW-46	WT						X X X X				
YGMW-47	WT						X X X X				
YGMW-48	WT						X X X X				
YGMW-49	WT						X X X X				
YGMW-50	WT						X X X X				

Section D
 Date: 3/28/13
 Time: 17:30
 Location: Mill Race
 Signature: KATE R. P. HENNETT
 Date Signed: 3/28/13
 pH: 5.38



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Client Information:
 Party: Georgia Power
 Address: 1070 Shirley Mill Ave
 City: GA 30114

Section B

Requested Project Information:
 Report To: Rocky Steever
 Copy To:
 Project Name: Yates AP-2
 Project #:

Section C

Invoice Information:
 Attention: Kevin Derrington
 Company Name:
 Address:
 Phone Profile #:

Regulatory Agency Information:
 Regulatory Agency:
 State / Location: GA

Requested Analysis Profile (Y/N)

Requested Analysis Profile (Y/N)

Requested Analysis Profile (Y/N)

Requested Analysis Profile (Y/N)

Requested Analysis Profile (Y/N)

Requested Analysis Profile (Y/N)

Requested Analysis Profile (Y/N)

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 TIME
 END DATE TIME

SAMPLE TEMP AT COLLECTION
 # OF CONTAINERS
 Unpreserved
 H2SO4
 HNO3
 HCl
 NaOH
 Na2S2O3
 Methanol
 Other

Analysis Test Y/N
 TDS
 Cl, F, SO4
 App In/IV Metals
 RAD 8316/8320

Residual Chlorine (Y/N)

NO.	ADDITIONAL COMMENTS	RELINQUISHMENT/AFFILIATION	DATE	TIME	ACCEPTED BY/AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
3	YGWC-236							
4	YGWC-239							
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Yate R. P. Lewis

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 3.3.21



CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Client Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: (770) 394-6326
 Project Name: Yates AP-2
 Project #:

Section B

Required Project Information:

Report To: Becky Stever
 Copy To:
 Purchase Order #:
 Project Name: Yates AP-2
 Project #:

Section C

Invoice Information:

Attention:
 Country Name:
 Address:
 Project Manager: Kevin.Merth@ep.com
 Project Profile #: 10240

Page: 2 of 12

COG-13

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

MATRIX CODES
 Drinking Water DWG
 Wastewater WWG
 Wastewater WWG
 Process Water PWG
 Sewage SWG
 Other OTH
 Air AIC
 Other OTH
 Tissue TS

MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G-GRAB C-COMP)
 DATE TIME DATE TIME
 SAMPLE TEMP AT COLLECTION
 # OF CONTAINERS
 Unpreserved
 H2SO4
 HNO3
 HCl
 NaOH
 Na2S2O3
 Methanol
 Other

Analysis Test Y/N
 TDS
 Cl, F, SO4
 App III/IV Metals
 RAD 9315/9320

Residual Chlorine (Y/N)

ITEM #	DESCRIPTION	WT	DATE	TIME	DATE	TIME	ANALYSIS TEST	RESIDUAL CHLORINE (Y/N)
1	WATER	WT					X X X X X	
2	WATER	WT					X X X X X	
3	WATER	WT					X X X X X	
4	WATER	WT					X X X X X	
5	WATER	WT					X X X X X	
6	WATER	WT					X X X X X	
7	WATER	WT	3/31/05		5/1/05		X X X X X	
8	WATER	WT	3/31/05		5/1/05		X X X X X	
9	WATER	WT	3/31/05		5/1/05		X X X X X	
10	WATER	WT	3/31/05		5/1/05		X X X X X	
11	WATER	WT	3/31/05		5/1/05		X X X X X	
12	WATER	WT	3/31/05		5/1/05		X X X X X	

ADDITIONAL COMMENTS: EB-01, DP-02, PH: 5.93, PH: 6.35, PH: 6.43, PH: 6.10

RECEIVED BY / SIGNATURE: [Signature] DATE: 3-4-21 TIME: 10:05

ACCEPTED BY / SIGNATURE: [Signature] DATE: 3/5/21 TIME: 10:00

ANALYST NAME AND SIGNATURE: [Signature] DATE SIGNED: 3-3-21

PRINT NAME OF SAMPLER: KATE RIFE-CAWZ
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED: 3-3-21

March 26, 2021

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

RE: Project: YATES
Pace Project No.: 92525335

Dear Ms. Petty:

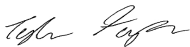
Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, 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,



Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES
Pace Project No.: 92525335

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525335001	YGWA-5I	Water	03/02/21 14:05	03/02/21 17:30
92525335002	YGWA-5D	Water	03/02/21 14:40	03/02/21 17:30
92525335003	DUP-1	Water	03/02/21 00:00	03/02/21 17:30
92525335005	YGWA-14S	Water	03/02/21 11:20	03/02/21 17:30
92525335006	YGWA-30I	Water	03/01/21 16:25	03/02/21 17:30
92525335007	FB-01	Water	03/02/21 11:30	03/02/21 17:30
92525335008	DUP-01	Water	03/02/21 00:00	03/02/21 17:30
92525335009	FB-01	Water	03/02/21 15:20	03/02/21 17:30
92525335011	YGWA-40	Water	03/04/21 10:10	03/05/21 09:20
92525335012	YGWA-17S	Water	03/03/21 12:20	03/05/21 09:20
92525335013	YGWA-18S	Water	03/03/21 13:50	03/05/21 09:20
92525335014	YGWA-18I	Water	03/03/21 15:00	03/05/21 09:20
92525335015	YGWA-39	Water	03/04/21 10:20	03/05/21 09:20
92525335016	YGWA-1D (030321)	Water	03/03/21 14:25	03/05/21 09:20
92525335017	YGWA-1I (030321)	Water	03/03/21 13:35	03/05/21 09:20
92525335018	YGWA-2I (030321)	Water	03/03/21 11:45	03/05/21 09:20
92525335019	YGWA-3I (030321)	Water	03/03/21 17:00	03/05/21 09:20
92525335020	YGWA-3D (030321)	Water	03/03/21 16:00	03/05/21 09:20
92525335021	EB-02 (03032021)	Water	03/03/21 17:15	03/05/21 09:20
92525335022	YGWA-4I	Water	03/03/21 10:35	03/05/21 09:20
92525335023	YGWA-20S	Water	03/03/21 09:40	03/05/21 09:20
92525335024	YGWA-21I	Water	03/04/21 09:35	03/05/21 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525335001	YGWA-5I	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335002	YGWA-5D	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335003	DUP-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335005	YGWA-14S	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
92525335006	YGWA-30I	EPA 6020B	CW1	12
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
92525335007	FB-01	SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92525335008	DUP-01	SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92525335009	FB-01	SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525335011	YGWA-40	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525335012	YGWA-17S	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525335013	YGWA-18S	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525335014	YGWA-18I	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92525335015	YGWA-39	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525335016	YGWA-1D (030321)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
92525335017	YGWA-1I (030321)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
92525335018	YGWA-2I (030321)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525335019	YGWA-3I (030321)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
92525335020	YGWA-3D (030321)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
92525335021	EB-02 (03032021)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92525335022	YGWA-4I	SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
92525335023	YGWA-20S	EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92525335024	YGWA-21I	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525335001	YGWA-5I					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.63	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.6	mg/L	1.0	03/09/21 02:21	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/05/21 16:43	
EPA 6020B	Boron	0.011J	mg/L	0.040	03/05/21 16:43	
EPA 6020B	Lead	0.000092J	mg/L	0.0010	03/05/21 16:43	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	03/05/21 16:43	
SM 2450C-2011	Total Dissolved Solids	67.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	03/06/21 20:37	
EPA 300.0 Rev 2.1 1993	Sulfate	2.3	mg/L	1.0	03/06/21 20:37	
92525335002	YGWA-5D					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	7.15	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.6	mg/L	1.0	03/09/21 02:41	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/05/21 16:49	
EPA 6020B	Boron	0.0068J	mg/L	0.040	03/05/21 16:49	
EPA 6020B	Lead	0.000051J	mg/L	0.0010	03/05/21 16:49	
EPA 6020B	Lithium	0.0018J	mg/L	0.030	03/05/21 16:49	
SM 2450C-2011	Total Dissolved Solids	52.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	03/06/21 21:49	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	03/06/21 21:49	
92525335003	DUP-1					
EPA 6010D	Calcium	1.5	mg/L	1.0	03/09/21 02:46	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	03/05/21 17:11	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/05/21 17:11	
EPA 6020B	Boron	0.013J	mg/L	0.040	03/05/21 17:11	
EPA 6020B	Lead	0.000069J	mg/L	0.0010	03/05/21 17:11	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/05/21 17:11	
SM 2450C-2011	Total Dissolved Solids	48.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	03/06/21 22:04	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	03/06/21 22:04	
92525335005	YGWA-14S					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.49	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 02:56	
EPA 6020B	Barium	0.0076	mg/L	0.0050	03/05/21 17:23	
EPA 6020B	Beryllium	0.00018J	mg/L	0.00050	03/05/21 17:23	
EPA 6020B	Boron	0.017J	mg/L	0.040	03/05/21 17:23	
SM 2450C-2011	Total Dissolved Solids	67.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/06/21 22:32	
EPA 300.0 Rev 2.1 1993	Sulfate	6.0	mg/L	1.0	03/06/21 22:32	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525335006	YGWA-30I					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.78	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 03:00	
EPA 6020B	Barium	0.0070	mg/L	0.0050	03/05/21 17:58	
EPA 6020B	Cobalt	0.0061	mg/L	0.0050	03/05/21 17:58	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	03/05/21 17:58	
SM 2450C-2011	Total Dissolved Solids	23.0	mg/L	10.0	03/04/21 10:19	D6
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/06/21 22:47	
EPA 300.0 Rev 2.1 1993	Sulfate	0.88J	mg/L	1.0	03/06/21 22:47	
92525335007	FB-01					
EPA 6010D	Calcium	34.4	mg/L	1.0	03/09/21 03:05	
EPA 6020B	Barium	0.022	mg/L	0.0050	03/05/21 18:04	
EPA 6020B	Chromium	0.00062J	mg/L	0.0050	03/05/21 18:04	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/05/21 18:04	
SM 2450C-2011	Total Dissolved Solids	65.0	mg/L	10.0	03/05/21 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/06/21 23:01	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	03/06/21 23:01	
92525335008	DUP-01					
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 03:20	
EPA 6020B	Barium	0.0078	mg/L	0.0050	03/05/21 18:09	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	03/05/21 18:09	
EPA 6020B	Boron	0.016J	mg/L	0.040	03/05/21 18:09	
SM 2450C-2011	Total Dissolved Solids	32.0	mg/L	10.0	03/05/21 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	03/06/21 23:16	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	03/06/21 23:16	
92525335011	YGWA-40					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.23	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	4.6	mg/L	1.0	03/10/21 05:29	
EPA 6020B	Barium	0.032	mg/L	0.0050	03/09/21 15:48	
EPA 6020B	Beryllium	0.00021J	mg/L	0.00050	03/09/21 15:48	
EPA 6020B	Boron	0.078	mg/L	0.040	03/09/21 15:48	
SM 2450C-2011	Total Dissolved Solids	57.0	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/13/21 17:54	
EPA 300.0 Rev 2.1 1993	Sulfate	21.5	mg/L	1.0	03/13/21 17:54	
92525335012	YGWA-17S					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.52	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.5	mg/L	1.0	03/10/21 05:59	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/09/21 15:54	
EPA 6020B	Beryllium	0.000099J	mg/L	0.00050	03/09/21 15:54	
EPA 6020B	Boron	0.010J	mg/L	0.040	03/09/21 15:54	
EPA 6020B	Chromium	0.00082J	mg/L	0.0050	03/09/21 15:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525335012	YGWA-17S					
SM 2450C-2011	Total Dissolved Solids	57.0	mg/L	10.0	03/05/21 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	7.1	mg/L	1.0	03/13/21 18:10	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	03/13/21 18:10	
92525335013	YGWA-18S					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.31	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	0.96J	mg/L	1.0	03/10/21 06:03	
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	03/09/21 16:17	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/09/21 16:17	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	03/09/21 16:17	
EPA 6020B	Boron	0.0094J	mg/L	0.040	03/09/21 16:17	
EPA 6020B	Chromium	0.0010J	mg/L	0.0050	03/09/21 16:17	
EPA 6020B	Lead	0.000076J	mg/L	0.0010	03/09/21 16:17	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	03/09/21 16:17	
SM 2450C-2011	Total Dissolved Solids	37.0	mg/L	10.0	03/05/21 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	7.2	mg/L	1.0	03/13/21 18:56	
EPA 300.0 Rev 2.1 1993	Sulfate	1.0	mg/L	1.0	03/13/21 18:56	
92525335014	YGWA-18I					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.89	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	5.2	mg/L	1.0	03/10/21 06:08	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/09/21 16:23	
EPA 6020B	Chromium	0.00087J	mg/L	0.0050	03/09/21 16:23	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	03/09/21 16:23	
SM 2450C-2011	Total Dissolved Solids	95.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	03/13/21 19:12	
92525335015	YGWA-39					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.54	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	8.2	mg/L	1.0	03/10/21 06:13	
EPA 6020B	Barium	0.028	mg/L	0.0050	03/09/21 16:28	
EPA 6020B	Boron	0.033J	mg/L	0.040	03/09/21 16:28	
EPA 6020B	Cadmium	0.00030J	mg/L	0.00050	03/09/21 16:28	
EPA 6020B	Cobalt	0.00071J	mg/L	0.0050	03/09/21 16:28	
EPA 6020B	Lithium	0.0084J	mg/L	0.030	03/09/21 16:28	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	03/09/21 16:28	
SM 2450C-2011	Total Dissolved Solids	168	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/13/21 19:28	
EPA 300.0 Rev 2.1 1993	Sulfate	12.0	mg/L	1.0	03/13/21 19:28	
92525335016	YGWA-1D (030321)					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	7.20	Std. Units		03/08/21 09:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525335016	YGWA-1D (030321)					
EPA 6010D	Calcium	14.1	mg/L	1.0	03/10/21 06:18	
EPA 6020B	Barium	0.0068	mg/L	0.0050	03/09/21 17:01	
EPA 6020B	Lead	0.000056J	mg/L	0.0010	03/09/21 17:01	
EPA 6020B	Lithium	0.012J	mg/L	0.030	03/09/21 17:01	
EPA 6020B	Molybdenum	0.0088J	mg/L	0.010	03/09/21 17:01	
SM 2450C-2011	Total Dissolved Solids	99.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	0.96J	mg/L	1.0	03/13/21 19:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	03/13/21 19:43	
EPA 300.0 Rev 2.1 1993	Sulfate	9.0	mg/L	1.0	03/13/21 19:43	
92525335017	YGWA-1I (030321)					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.38	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.8	mg/L	1.0	03/10/21 06:23	
EPA 6020B	Barium	0.0094	mg/L	0.0050	03/09/21 17:07	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	03/09/21 17:07	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	03/09/21 17:07	
EPA 6020B	Molybdenum	0.0049J	mg/L	0.010	03/09/21 17:07	
SM 2450C-2011	Total Dissolved Solids	39.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/13/21 19:59	
EPA 300.0 Rev 2.1 1993	Sulfate	4.4	mg/L	1.0	03/13/21 19:59	
92525335018	YGWA-2I (030321)					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	7.92	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	25.6	mg/L	1.0	03/10/21 06:28	
EPA 6020B	Arsenic	0.00098J	mg/L	0.0050	03/09/21 17:12	
EPA 6020B	Barium	0.0041J	mg/L	0.0050	03/09/21 17:12	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/09/21 17:12	
EPA 6020B	Molybdenum	0.0074J	mg/L	0.010	03/09/21 17:12	
SM 2450C-2011	Total Dissolved Solids	138	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.86J	mg/L	1.0	03/13/21 20:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	03/13/21 20:14	
EPA 300.0 Rev 2.1 1993	Sulfate	10.6	mg/L	1.0	03/13/21 20:14	
92525335019	YGWA-3I (030321)					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	8.23	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	20.6	mg/L	1.0	03/10/21 06:32	
EPA 6020B	Barium	0.0031J	mg/L	0.0050	03/09/21 17:18	
EPA 6020B	Lithium	0.017J	mg/L	0.030	03/09/21 17:18	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	03/09/21 17:18	
SM 2450C-2011	Total Dissolved Solids	111	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.99J	mg/L	1.0	03/13/21 21:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	03/13/21 21:00	
EPA 300.0 Rev 2.1 1993	Sulfate	9.6	mg/L	1.0	03/13/21 21:00	M1

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525335020	YGWA-3D (030321)					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	8.39	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	29.8	mg/L	1.0	03/10/21 06:47	
EPA 6020B	Barium	0.0064	mg/L	0.0050	03/09/21 17:24	
EPA 6020B	Lithium	0.024J	mg/L	0.030	03/09/21 17:24	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/09/21 17:24	
SM 2450C-2011	Total Dissolved Solids	137	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	03/13/21 22:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.44	mg/L	0.10	03/13/21 22:18	
EPA 300.0 Rev 2.1 1993	Sulfate	7.0	mg/L	1.0	03/13/21 22:18	
92525335021	EB-02 (03032021)					
EPA 6010D	Calcium	33.3	mg/L	1.0	03/10/21 06:52	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/09/21 17:29	
EPA 6020B	Chromium	0.00057J	mg/L	0.0050	03/09/21 17:29	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/09/21 17:29	
SM 2450C-2011	Total Dissolved Solids	102	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/13/21 22:33	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	03/13/21 22:33	
92525335022	YGWA-4I					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	6.21	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	7.7	mg/L	1.0	03/10/21 06:56	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/09/21 17:35	
EPA 6020B	Boron	0.0056J	mg/L	0.040	03/09/21 17:35	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	03/09/21 17:35	
EPA 6020B	Lithium	0.012J	mg/L	0.030	03/09/21 17:35	
EPA 6020B	Selenium	0.0019J	mg/L	0.0050	03/09/21 17:35	
SM 2450C-2011	Total Dissolved Solids	80.0	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	03/13/21 22:49	
EPA 300.0 Rev 2.1 1993	Sulfate	7.8	mg/L	1.0	03/13/21 22:49	
92525335023	YGWA-20S					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	5.89	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.4	mg/L	1.0	03/10/21 07:01	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/09/21 17:56	
EPA 6020B	Beryllium	0.000068J	mg/L	0.00050	03/09/21 17:56	
EPA 6020B	Lead	0.000045J	mg/L	0.0010	03/09/21 17:56	
SM 2450C-2011	Total Dissolved Solids	53.0	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/13/21 23:04	
92525335024	YGWA-21I					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	6.80	Std. Units		03/08/21 09:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335024	YGWA-21I					
EPA 6010D	Calcium	8.7	mg/L	1.0	03/10/21 07:06	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	03/09/21 18:02	
EPA 6020B	Arsenic	0.00078J	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Barium	0.011	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Boron	0.0079J	mg/L	0.040	03/09/21 18:02	
EPA 6020B	Cobalt	0.0065	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	03/09/21 18:02	
SM 2450C-2011	Total Dissolved Solids	110	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	03/13/21 23:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.091J	mg/L	0.10	03/13/21 23:20	
EPA 300.0 Rev 2.1 1993	Sulfate	4.5	mg/L	1.0	03/13/21 23:20	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-5I		Lab ID: 92525335001		Collected: 03/02/21 14:05		Received: 03/02/21 17:30		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		03/08/21 09:07		
pH	5.63	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.6	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:21	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	0.00028	1	03/04/21 11:29	03/05/21 16:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 16:43	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 16:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 16:43	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 16:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 16:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 16:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 16:43	7440-48-4	
Lead	0.000092J	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 16:43	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 16:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 16:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 16:43	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	67.0	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.3	mg/L	1.0	0.60	1		03/06/21 20:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 20:37	16984-48-8	
Sulfate	2.3	mg/L	1.0	0.50	1		03/06/21 20:37	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-5D		Lab ID: 92525335002		Collected: 03/02/21 14:40		Received: 03/02/21 17:30		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		03/08/21 09:07		
pH	7.15	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.6	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:41	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	0.00028	1	03/04/21 11:29	03/05/21 16:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 16:49	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 16:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 16:49	7440-41-7	
Boron	0.0068J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 16:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 16:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 16:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 16:49	7440-48-4	
Lead	0.000051J	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 16:49	7439-92-1	
Lithium	0.0018J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 16:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 16:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 16:49	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	52.0	mg/L	10.0	10.0	1		03/04/21 14:30		
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		03/06/21 21:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 21:49	16984-48-8	
Sulfate	2.6	mg/L	1.0	0.50	1		03/06/21 21:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: DUP-1		Lab ID: 92525335003		Collected: 03/02/21 00:00		Received: 03/02/21 17:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	1.5	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:46	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0015J	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 17:11	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:11	7440-38-2		
Barium	0.014	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:11	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:11	7440-41-7		
Boron	0.013J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:11	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:11	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:11	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:11	7440-48-4		
Lead	0.000069J	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:11	7439-92-1		
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:11	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:11	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:11	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:57	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	48.0	mg/L	10.0	10.0	1		03/04/21 14:30			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	3.0	mg/L	1.0	0.60	1		03/06/21 22:04	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 22:04	16984-48-8		
Sulfate	2.0	mg/L	1.0	0.50	1		03/06/21 22:04	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-14S		Lab ID: 92525335005		Collected: 03/02/21 11:20		Received: 03/02/21 17:30		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		03/08/21 09:07		
pH	5.49	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.2	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:56	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 17:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:23	7440-38-2	
Barium	0.0076	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:23	7440-39-3	
Beryllium	0.00018J	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:23	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:23	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	67.0	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		03/06/21 22:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 22:32	16984-48-8	
Sulfate	6.0	mg/L	1.0	0.50	1		03/06/21 22:32	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-301		Lab ID: 92525335006		Collected: 03/01/21 16:25		Received: 03/02/21 17:30		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		03/08/21 09:07		
pH	5.78	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.2	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:00	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	0.00028	1	03/04/21 11:29	03/05/21 17:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:58	7440-38-2	
Barium	0.0070	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:58	7440-47-3	
Cobalt	0.0061	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:58	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:58	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	23.0	mg/L	10.0	10.0	1		03/04/21 10:19		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.6	mg/L	1.0	0.60	1		03/06/21 22:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 22:47	16984-48-8	
Sulfate	0.88J	mg/L	1.0	0.50	1		03/06/21 22:47	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: FB-01		Lab ID: 92525335007		Collected: 03/02/21 11:30		Received: 03/02/21 17:30		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	34.4	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:05	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	0.00028	1	03/04/21 11:29	03/05/21 18:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:04	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:04	7440-43-9	
Chromium	0.00062J	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:04	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:04	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	65.0	mg/L	10.0	10.0	1		03/05/21 11:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.6	mg/L	1.0	0.60	1		03/06/21 23:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:01	16984-48-8	
Sulfate	2.2	mg/L	1.0	0.50	1		03/06/21 23:01	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: DUP-01		Lab ID: 92525335008		Collected: 03/02/21 00:00	Received: 03/02/21 17:30	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	1.2	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:20	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	0.00028	1	03/04/21 11:29	03/05/21 18:09	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:09	7440-38-2		
Barium	0.0078	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:09	7440-39-3		
Beryllium	0.00020J	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:09	7440-41-7		
Boron	0.016J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:09	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:09	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:09	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:09	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:09	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:09	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:09	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:09	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:09	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	32.0	mg/L	10.0	10.0	1		03/05/21 11:04			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	5.0	mg/L	1.0	0.60	1		03/06/21 23:16	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:16	16984-48-8		
Sulfate	6.1	mg/L	1.0	0.50	1		03/06/21 23:16	14808-79-8		

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: FB-01		Lab ID: 92525335009		Collected: 03/02/21 15:20	Received: 03/02/21 17:30	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:24	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	0.00028	1	03/04/21 11:29	03/05/21 18:15	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:15	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:15	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:15	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:15	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:15	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:15	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:15	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:15	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:15	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:15	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:15	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:11	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/05/21 11:05			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/06/21 23:30	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:30	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/06/21 23:30	14808-79-8		

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-40		Lab ID: 92525335011		Collected: 03/04/21 10:10		Received: 03/05/21 09:20		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		03/08/21 09:07		
pH	5.23	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	4.6	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 05:29	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 15:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 15:48	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 15:48	7440-39-3	
Beryllium	0.00021J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 15:48	7440-41-7	
Boron	0.078	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 15:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 15:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 15:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 15:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 15:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 15:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 15:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 15:48	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		03/13/21 17:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 17:54	16984-48-8	
Sulfate	21.5	mg/L	1.0	0.50	1		03/13/21 17:54	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-17S		Lab ID: 92525335012		Collected: 03/03/21 12:20		Received: 03/05/21 09:20		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		03/08/21 09:07		
pH	5.52	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.5	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 05:59	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	0.00028	1	03/08/21 11:57	03/09/21 15:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 15:54	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 15:54	7440-39-3	
Beryllium	0.000099J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 15:54	7440-41-7	
Boron	0.010J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 15:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 15:54	7440-43-9	
Chromium	0.00082J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 15:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 15:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 15:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 15:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 15:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 15:54	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:54	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.1	mg/L	1.0	0.60	1		03/13/21 18:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 18:10	16984-48-8	
Sulfate	5.2	mg/L	1.0	0.50	1		03/13/21 18:10	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-18S		Lab ID: 92525335013		Collected: 03/03/21 13:50		Received: 03/05/21 09:20		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		03/08/21 09:07		
pH	5.31	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	0.96J	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:03	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00067J	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 16:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:17	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:17	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:17	7440-41-7	
Boron	0.0094J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:17	7440-43-9	
Chromium	0.0010J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:17	7440-48-4	
Lead	0.000076J	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:17	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:17	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	37.0	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.2	mg/L	1.0	0.60	1		03/13/21 18:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 18:56	16984-48-8	
Sulfate	1.0	mg/L	1.0	0.50	1		03/13/21 18:56	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-181		Lab ID: 92525335014		Collected: 03/03/21 15:00		Received: 03/05/21 09:20		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		03/08/21 09:07		
pH	5.89	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.2	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:08	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 16:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:23	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:23	7440-43-9	
Chromium	0.00087J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:23	7439-92-1	
Lithium	0.0034J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:23	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	95.0	mg/L	10.0	10.0	1		03/06/21 13:09		
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		03/13/21 19:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/21 19:12	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-39		Lab ID: 92525335015		Collected: 03/04/21 10:20		Received: 03/05/21 09:20		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		03/08/21 09:07		
pH	5.54	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	8.2	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:13	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	0.00028	1	03/08/21 11:57	03/09/21 16:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:28	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:28	7440-41-7	
Boron	0.033J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:28	7440-42-8	
Cadmium	0.00030J	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:28	7440-47-3	
Cobalt	0.00071J	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:28	7439-92-1	
Lithium	0.0084J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:28	7439-93-2	
Molybdenum	0.0014J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:28	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	168	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		03/13/21 19:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:28	16984-48-8	
Sulfate	12.0	mg/L	1.0	0.50	1		03/13/21 19:28	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-1D (030321) Lab ID: 92525335016 Collected: 03/03/21 14:25 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	7.20	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	14.1	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:18	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	0.00028	1	03/08/21 11:57	03/09/21 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:01	7440-38-2	
Barium	0.0068	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:01	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:01	7440-48-4	
Lead	0.000056J	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:01	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:01	7439-93-2	
Molybdenum	0.0088J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:01	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	99.0	mg/L	10.0	10.0	1		03/06/21 13:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.96J	mg/L	1.0	0.60	1		03/13/21 19:43	16887-00-6	
Fluoride	0.078J	mg/L	0.10	0.050	1		03/13/21 19:43	16984-48-8	
Sulfate	9.0	mg/L	1.0	0.50	1		03/13/21 19:43	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-1I (030321) **Lab ID: 92525335017** Collected: 03/03/21 13:35 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	5.38	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.8	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:23	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	0.00028	1	03/08/21 11:57	03/09/21 17:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:07	7440-38-2	
Barium	0.0094	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:07	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:07	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:07	7439-93-2	
Molybdenum	0.0049J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:07	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	39.0	mg/L	10.0	10.0	1		03/06/21 13:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	0.60	1		03/13/21 19:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:59	16984-48-8	
Sulfate	4.4	mg/L	1.0	0.50	1		03/13/21 19:59	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-2I (030321) Lab ID: 92525335018 Collected: 03/03/21 11:45 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	7.92	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	25.6	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:28	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	0.00028	1	03/08/21 11:57	03/09/21 17:12	7440-36-0	
Arsenic	0.00098J	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:12	7440-38-2	
Barium	0.0041J	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:12	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:12	7439-93-2	
Molybdenum	0.0074J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:12	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	138	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.86J	mg/L	1.0	0.60	1		03/13/21 20:14	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		03/13/21 20:14	16984-48-8	
Sulfate	10.6	mg/L	1.0	0.50	1		03/13/21 20:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-3I (030321) Lab ID: 92525335019 Collected: 03/03/21 17:00 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	8.23	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	20.6	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:32	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:18	7440-38-2	
Barium	0.0031J	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:18	7439-92-1	
Lithium	0.017J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:18	7439-93-2	
Molybdenum	0.0036J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:18	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	111	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.99J	mg/L	1.0	0.60	1		03/13/21 21:00	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		03/13/21 21:00	16984-48-8	
Sulfate	9.6	mg/L	1.0	0.50	1		03/13/21 21:00	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-3D (030321) Lab ID: 92525335020 Collected: 03/03/21 16:00 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	8.39	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	29.8	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:47	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:24	7440-38-2	
Barium	0.0064	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:24	7439-92-1	
Lithium	0.024J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:24	7439-93-2	
Molybdenum	0.013	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:24	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	137	mg/L	10.0	10.0	1		03/06/21 13:10		
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		03/13/21 22:18	16887-00-6	
Fluoride	0.44	mg/L	0.10	0.050	1		03/13/21 22:18	16984-48-8	
Sulfate	7.0	mg/L	1.0	0.50	1		03/13/21 22:18	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: EB-02 (03032021) Lab ID: 92525335021 Collected: 03/03/21 17:15 Received: 03/05/21 09:20 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	33.3	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:52	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:29	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:29	7440-43-9	
Chromium	0.00057J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:29	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/08/21 11:57	03/09/21 17:29	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	102	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.6	mg/L	1.0	0.60	1		03/13/21 22:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 22:33	16984-48-8	
Sulfate	2.2	mg/L	1.0	0.50	1		03/13/21 22:33	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-4I		Lab ID: 92525335022		Collected: 03/03/21 10:35		Received: 03/05/21 09:20		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		03/08/21 09:07		
pH	6.21	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	7.7	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:56	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:35	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:35	7440-41-7	
Boron	0.0056J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:35	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:35	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:35	7439-98-7	
Selenium	0.0019J	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:35	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	80.0	mg/L	10.0	10.0	1		03/06/21 13:11		
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		03/13/21 22:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 22:49	16984-48-8	
Sulfate	7.8	mg/L	1.0	0.50	1		03/13/21 22:49	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-20S		Lab ID: 92525335023		Collected: 03/03/21 09:40		Received: 03/05/21 09:20		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		03/08/21 09:07		
pH	5.89	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.4	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 07:01	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:56	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:56	7440-39-3	
Beryllium	0.000068J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:56	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:56	7440-48-4	
Lead	0.000045J	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:56	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	53.0	mg/L	10.0	10.0	1		03/06/21 13:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.7	mg/L	1.0	0.60	1		03/13/21 23:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 23:04	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/21 23:04	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-211		Lab ID: 92525335024		Collected: 03/04/21 09:35		Received: 03/05/21 09:20		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		03/08/21 09:07		
pH	6.80	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	8.7	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 07:06	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0014J	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 18:02	7440-36-0	
Arsenic	0.00078J	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 18:02	7440-38-2	
Barium	0.011	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 18:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 18:02	7440-41-7	
Boron	0.0079J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 18:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 18:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 18:02	7440-47-3	
Cobalt	0.0065	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 18:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 18:02	7439-92-1	
Lithium	0.0062J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 18:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 18:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 18:02	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	110	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.8	mg/L	1.0	0.60	1		03/13/21 23:20	16887-00-6	
Fluoride	0.091J	mg/L	0.10	0.050	1		03/13/21 23:20	16984-48-8	
Sulfate	4.5	mg/L	1.0	0.50	1		03/13/21 23:20	14808-79-8	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch:	604223	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3183140 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/09/21 01:57	

LABORATORY CONTROL SAMPLE: 3183141

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183142 3183143

Parameter	Units	3183142		3183143		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Calcium	mg/L	2.6	1	1	3.6	3.5	105	94	75-125	3	20	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch:	604893	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3186898 Matrix: Water

Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/10/21 05:19	

LABORATORY CONTROL SAMPLE: 3186899

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: 3186900 3186901

Parameter	Units	92525335011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	4.6	1	1	5.5	5.4	92	76	75-125	3	20	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604224 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3183148 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/05/21 16:31	
Arsenic	mg/L	ND	0.0050	0.00078	03/05/21 16:31	
Barium	mg/L	ND	0.0050	0.00071	03/05/21 16:31	
Beryllium	mg/L	ND	0.00050	0.000046	03/05/21 16:31	
Boron	mg/L	ND	0.040	0.0052	03/05/21 16:31	
Cadmium	mg/L	ND	0.00050	0.00012	03/05/21 16:31	
Chromium	mg/L	ND	0.0050	0.00055	03/05/21 16:31	
Cobalt	mg/L	ND	0.0050	0.00038	03/05/21 16:31	
Lead	mg/L	ND	0.0010	0.000036	03/05/21 16:31	
Lithium	mg/L	ND	0.030	0.00081	03/05/21 16:31	
Molybdenum	mg/L	ND	0.010	0.00069	03/05/21 16:31	
Selenium	mg/L	ND	0.0050	0.0016	03/05/21 16:31	

LABORATORY CONTROL SAMPLE: 3183149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.91	91	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183150 3183151

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	105	106	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20		
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	96	99	75-125	2	20		

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

Parameter	Units	3183150		3183151		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92525335002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Beryllium	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20	
Boron	mg/L	0.0068J	1	1	0.96	0.96	96	96	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	99	98	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Lead	mg/L	0.000051J	0.1	0.1	0.098	0.095	98	95	75-125	3	20	
Lithium	mg/L	0.0018J	0.1	0.1	0.10	0.097	98	95	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604916 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3187128 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/09/21 15:37	
Arsenic	mg/L	ND	0.0050	0.00078	03/09/21 15:37	
Barium	mg/L	ND	0.0050	0.00071	03/09/21 15:37	
Beryllium	mg/L	ND	0.00050	0.000046	03/09/21 15:37	
Boron	mg/L	ND	0.040	0.0052	03/09/21 15:37	
Cadmium	mg/L	ND	0.00050	0.00012	03/09/21 15:37	
Chromium	mg/L	ND	0.0050	0.00055	03/09/21 15:37	
Cobalt	mg/L	ND	0.0050	0.00038	03/09/21 15:37	
Lead	mg/L	ND	0.0010	0.000036	03/09/21 15:37	
Lithium	mg/L	ND	0.030	0.00081	03/09/21 15:37	
Molybdenum	mg/L	ND	0.010	0.00069	03/09/21 15:37	
Selenium	mg/L	ND	0.0050	0.0016	03/09/21 15:37	
Thallium	mg/L	ND	0.0010	0.00014	03/09/21 15:37	

LABORATORY CONTROL SAMPLE: 3187129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.094	94	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Thallium	mg/L	0.1	0.092	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187130 3187131

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525335012	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	1	20

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187130		3187131		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92525335012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20		
Barium	mg/L	0.017	0.1	0.1	0.11	0.11	90	94	75-125	3	20		
Beryllium	mg/L	0.000099J	0.1	0.1	0.093	0.095	93	95	75-125	3	20		
Boron	mg/L	0.010J	1	1	0.98	0.99	97	98	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20		
Chromium	mg/L	0.00082J	0.1	0.1	0.098	0.098	97	97	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.098	0.10	97	100	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.089	0.087	88	86	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.089	0.090	89	90	75-125	1	20		

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604308 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3183676 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/05/21 10:07	

LABORATORY CONTROL SAMPLE: 3183677

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: 3183678 3183679

Parameter	Units	92524632013		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	102	102	75-125	0	20		

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604928 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3187260 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/09/21 10:42	

LABORATORY CONTROL SAMPLE: 3187261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187262 3187263

Parameter	Units	92525375013 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury	mg/L	ND	0.0025	0.0023	0.0025	0.0019	93	78	75-125	18	20	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604206	Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525335006

METHOD BLANK: 3183000 Matrix: Water
Associated Lab Samples: 92525335006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/04/21 10:17	

LABORATORY CONTROL SAMPLE: 3183001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3183002

Parameter	Units	92525485001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	84.0	85.0	1	10	

SAMPLE DUPLICATE: 3183003

Parameter	Units	92525335006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	23.0	41.0	56	10	D6

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604300 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005

METHOD BLANK: 3183609 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/04/21 14:27	

LABORATORY CONTROL SAMPLE: 3183610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3183611

Parameter	Units	92525102001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	175	171	2	10	

SAMPLE DUPLICATE: 3183612

Parameter	Units	92524831010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	513	520	1	10	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604527 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335007, 92525335008, 92525335009

METHOD BLANK: 3184654 Matrix: Water
Associated Lab Samples: 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 11:03	

LABORATORY CONTROL SAMPLE: 3184655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	375	94	90-111	

SAMPLE DUPLICATE: 3184656

Parameter	Units	92525799001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2090	1960	6	10	

SAMPLE DUPLICATE: 3184657

Parameter	Units	92525341004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	152	9	10	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604626 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525335012, 92525335013

METHOD BLANK: 3185317 Matrix: Water

Associated Lab Samples: 92525335012, 92525335013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 15:33	

LABORATORY CONTROL SAMPLE: 3185318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3185319

Parameter	Units	92525822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	290	6	10	

SAMPLE DUPLICATE: 3185328

Parameter	Units	92524831016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	325	354	9	10	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604764 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335014, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023

METHOD BLANK: 3186295 Matrix: Water
Associated Lab Samples: 92525335014, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 13:06	

LABORATORY CONTROL SAMPLE: 3186296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	368	92	90-111	

SAMPLE DUPLICATE: 3186298

Parameter	Units	92525335021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	101	1	10	

SAMPLE DUPLICATE: 3186336

Parameter	Units	92525919008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	283	6	10	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604765 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335011, 92525335015, 92525335024

METHOD BLANK: 3186310 Matrix: Water
Associated Lab Samples: 92525335011, 92525335015, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 12:29	

LABORATORY CONTROL SAMPLE: 3186311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	371	93	90-111	

SAMPLE DUPLICATE: 3186312

Parameter	Units	92525346009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	217	220	1	10	

SAMPLE DUPLICATE: 3186313

Parameter	Units	92525824003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	61.0	30	10	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604544 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3184710 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/06/21 20:08	
Fluoride	mg/L	ND	0.10	0.050	03/06/21 20:08	
Sulfate	mg/L	ND	1.0	0.50	03/06/21 20:08	

LABORATORY CONTROL SAMPLE: 3184711

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	2.5	98	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184712 3184713

Parameter	Units	92525335001		3184713		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	4.3	50	50	53.4	53.9	98	99	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	105	90-110	1	10
Sulfate	mg/L	2.3	50	50	51.8	52.4	99	100	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184714 3184715

Parameter	Units	92525341001		3184715		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	5.5	50	50	54.6	54.8	98	98	90-110	0	10
Fluoride	mg/L	0.18	2.5	2.5	3.3	3.3	124	125	90-110	1	10 M1
Sulfate	mg/L	94.2	50	50	135	135	81	82	90-110	0	10 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch:	606455	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018

METHOD BLANK: 3195134 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 12:45	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 12:45	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 12:45	

LABORATORY CONTROL SAMPLE: 3195135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195136 3195137

Parameter	Units	92525912007		3195137		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	ND	50	50.5	51.0	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	102	103	90-110	1	10	
Sulfate	mg/L	ND	50	53.6	54.2	107	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195138 3195139

Parameter	Units	92525919009		3195139		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	1.6	50	54.1	53.7	105	104	90-110	1	10	
Fluoride	mg/L	0.12	2.5	2.8	2.8	106	105	90-110	1	10	
Sulfate	mg/L	39.2	50	95.4	95.1	112	112	90-110	0	10 M1	

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 606456 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3195140 Matrix: Water
Associated Lab Samples: 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 20:29	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 20:29	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 20:29	

LABORATORY CONTROL SAMPLE: 3195141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195142 3195143

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525335019 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	0.99J	50	50	52.8	52.3	104	103	90-110	1	10		
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.7	106	104	90-110	2	10		
Sulfate	mg/L	9.6	50	50	65.5	64.7	112	110	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195144 3195145

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525346005 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	16.6	50	50	66.4	68.7	100	104	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	103	90-110	5	10		
Sulfate	mg/L	88.8	50	50	115	117	53	56	90-110	1	10	M1	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YATES
Pace Project No.: 92525335

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335001	YGWA-5I				
92525335002	YGWA-5D				
92525335005	YGWA-14S				
92525335006	YGWA-30I				
92525335011	YGWA-40				
92525335012	YGWA-17S				
92525335013	YGWA-18S				
92525335014	YGWA-18I				
92525335015	YGWA-39				
92525335016	YGWA-1D (030321)				
92525335017	YGWA-1I (030321)				
92525335018	YGWA-2I (030321)				
92525335019	YGWA-3I (030321)				
92525335020	YGWA-3D (030321)				
92525335022	YGWA-4I				
92525335023	YGWA-20S				
92525335024	YGWA-21I				
92525335001	YGWA-5I	EPA 3010A	604223	EPA 6010D	604309
92525335002	YGWA-5D	EPA 3010A	604223	EPA 6010D	604309
92525335003	DUP-1	EPA 3010A	604223	EPA 6010D	604309
92525335005	YGWA-14S	EPA 3010A	604223	EPA 6010D	604309
92525335006	YGWA-30I	EPA 3010A	604223	EPA 6010D	604309
92525335007	FB-01	EPA 3010A	604223	EPA 6010D	604309
92525335008	DUP-01	EPA 3010A	604223	EPA 6010D	604309
92525335009	FB-01	EPA 3010A	604223	EPA 6010D	604309
92525335011	YGWA-40	EPA 3010A	604893	EPA 6010D	604969
92525335012	YGWA-17S	EPA 3010A	604893	EPA 6010D	604969
92525335013	YGWA-18S	EPA 3010A	604893	EPA 6010D	604969
92525335014	YGWA-18I	EPA 3010A	604893	EPA 6010D	604969
92525335015	YGWA-39	EPA 3010A	604893	EPA 6010D	604969
92525335016	YGWA-1D (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335017	YGWA-1I (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335018	YGWA-2I (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335019	YGWA-3I (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335020	YGWA-3D (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335021	EB-02 (03032021)	EPA 3010A	604893	EPA 6010D	604969
92525335022	YGWA-4I	EPA 3010A	604893	EPA 6010D	604969
92525335023	YGWA-20S	EPA 3010A	604893	EPA 6010D	604969
92525335024	YGWA-21I	EPA 3010A	604893	EPA 6010D	604969
92525335001	YGWA-5I	EPA 3005A	604224	EPA 6020B	604329
92525335002	YGWA-5D	EPA 3005A	604224	EPA 6020B	604329
92525335003	DUP-1	EPA 3005A	604224	EPA 6020B	604329
92525335005	YGWA-14S	EPA 3005A	604224	EPA 6020B	604329
92525335006	YGWA-30I	EPA 3005A	604224	EPA 6020B	604329
92525335007	FB-01	EPA 3005A	604224	EPA 6020B	604329
92525335008	DUP-01	EPA 3005A	604224	EPA 6020B	604329
92525335009	FB-01	EPA 3005A	604224	EPA 6020B	604329

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335011	YGWA-40	EPA 3005A	604916	EPA 6020B	605023
92525335012	YGWA-17S	EPA 3005A	604916	EPA 6020B	605023
92525335013	YGWA-18S	EPA 3005A	604916	EPA 6020B	605023
92525335014	YGWA-18I	EPA 3005A	604916	EPA 6020B	605023
92525335015	YGWA-39	EPA 3005A	604916	EPA 6020B	605023
92525335016	YGWA-1D (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335017	YGWA-1I (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335018	YGWA-2I (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335019	YGWA-3I (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335020	YGWA-3D (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335021	EB-02 (03032021)	EPA 3005A	604916	EPA 6020B	605023
92525335022	YGWA-4I	EPA 3005A	604916	EPA 6020B	605023
92525335023	YGWA-20S	EPA 3005A	604916	EPA 6020B	605023
92525335024	YGWA-21I	EPA 3005A	604916	EPA 6020B	605023
92525335001	YGWA-5I	EPA 7470A	604308	EPA 7470A	604504
92525335002	YGWA-5D	EPA 7470A	604308	EPA 7470A	604504
92525335003	DUP-1	EPA 7470A	604308	EPA 7470A	604504
92525335007	FB-01	EPA 7470A	604308	EPA 7470A	604504
92525335008	DUP-01	EPA 7470A	604308	EPA 7470A	604504
92525335009	FB-01	EPA 7470A	604308	EPA 7470A	604504
92525335011	YGWA-40	EPA 7470A	604928	EPA 7470A	605029
92525335012	YGWA-17S	EPA 7470A	604928	EPA 7470A	605029
92525335013	YGWA-18S	EPA 7470A	604928	EPA 7470A	605029
92525335014	YGWA-18I	EPA 7470A	604928	EPA 7470A	605029
92525335015	YGWA-39	EPA 7470A	604928	EPA 7470A	605029
92525335021	EB-02 (03032021)	EPA 7470A	604928	EPA 7470A	605029
92525335022	YGWA-4I	EPA 7470A	604928	EPA 7470A	605029
92525335023	YGWA-20S	EPA 7470A	604928	EPA 7470A	605029
92525335024	YGWA-21I	EPA 7470A	604928	EPA 7470A	605029
92525335001	YGWA-5I	SM 2450C-2011	604300		
92525335002	YGWA-5D	SM 2450C-2011	604300		
92525335003	DUP-1	SM 2450C-2011	604300		
92525335005	YGWA-14S	SM 2450C-2011	604300		
92525335006	YGWA-30I	SM 2450C-2011	604206		
92525335007	FB-01	SM 2450C-2011	604527		
92525335008	DUP-01	SM 2450C-2011	604527		
92525335009	FB-01	SM 2450C-2011	604527		
92525335011	YGWA-40	SM 2450C-2011	604765		
92525335012	YGWA-17S	SM 2450C-2011	604626		
92525335013	YGWA-18S	SM 2450C-2011	604626		
92525335014	YGWA-18I	SM 2450C-2011	604764		
92525335015	YGWA-39	SM 2450C-2011	604765		
92525335016	YGWA-1D (030321)	SM 2450C-2011	604764		
92525335017	YGWA-1I (030321)	SM 2450C-2011	604764		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335018	YGWA-2I (030321)	SM 2450C-2011	604764		
92525335019	YGWA-3I (030321)	SM 2450C-2011	604764		
92525335020	YGWA-3D (030321)	SM 2450C-2011	604764		
92525335021	EB-02 (03032021)	SM 2450C-2011	604764		
92525335022	YGWA-4I	SM 2450C-2011	604764		
92525335023	YGWA-20S	SM 2450C-2011	604764		
92525335024	YGWA-21I	SM 2450C-2011	604765		
92525335001	YGWA-5I	EPA 300.0 Rev 2.1 1993	604544		
92525335002	YGWA-5D	EPA 300.0 Rev 2.1 1993	604544		
92525335003	DUP-1	EPA 300.0 Rev 2.1 1993	604544		
92525335005	YGWA-14S	EPA 300.0 Rev 2.1 1993	604544		
92525335006	YGWA-30I	EPA 300.0 Rev 2.1 1993	604544		
92525335007	FB-01	EPA 300.0 Rev 2.1 1993	604544		
92525335008	DUP-01	EPA 300.0 Rev 2.1 1993	604544		
92525335009	FB-01	EPA 300.0 Rev 2.1 1993	604544		
92525335011	YGWA-40	EPA 300.0 Rev 2.1 1993	606455		
92525335012	YGWA-17S	EPA 300.0 Rev 2.1 1993	606455		
92525335013	YGWA-18S	EPA 300.0 Rev 2.1 1993	606455		
92525335014	YGWA-18I	EPA 300.0 Rev 2.1 1993	606455		
92525335015	YGWA-39	EPA 300.0 Rev 2.1 1993	606455		
92525335016	YGWA-1D (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335017	YGWA-1I (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335018	YGWA-2I (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335019	YGWA-3I (030321)	EPA 300.0 Rev 2.1 1993	606456		
92525335020	YGWA-3D (030321)	EPA 300.0 Rev 2.1 1993	606456		
92525335021	EB-02 (03032021)	EPA 300.0 Rev 2.1 1993	606456		
92525335022	YGWA-4I	EPA 300.0 Rev 2.1 1993	606456		
92525335023	YGWA-20S	EPA 300.0 Rev 2.1 1993	606456		
92525335024	YGWA-21I	EPA 300.0 Rev 2.1 1993	606456		

REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Georgia power

Project #:

WO#: 92525335

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *MT 3/8/20*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) ±0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

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

Project #

WO# : 92525335

PM: KLH1

Due Date: 03/16/21

CLIENT: GA-GA Power

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

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

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)	BP4C-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 Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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



Section A
 Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30067
 Phone: (770) 384-6326
 Fax: (770) 384-6326

Section B
 Required Project Information:

Report To: Becky Steever
 Copy To:
 Purchase Order #: Yates AAA
 Project Name: Yates AAA
 Project #:

Section C
 Invoice Information:

Attention: Kevin Henry
 Company Name: Face Analytical
 Address:
 Invoice Date:
 Face Project Manager: kevin.henry@face-labs.com
 Face Profile #: 10840

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
 COC 1 of 4

SAMPLE ID
 One Character per box.
 (A-Z, 0-9/./)

MATRIX CODES
 Drinking Water DW
 Wastewater WW
 Wastewater Product SWP
 Solid Waste SW
 Air A
 Other OT

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyse Test	TDS	Cl, F, SO4	App III/IV Metals	RAD 0315/0320	Requested Analyte's Filtered (Y/N)	Regulatory Agency	Site Location	Residual Chlorine (Y/N)										
			START	END							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol										Other									
4	YGWA-1	WT																																		
5	YGWA-SI	WT																																		
8	YGWA-SD	WT																																		
7	YGWA-TS-DIP-1	WT																																		
9	YGWA-BS	WT																																		
9	YGWA-181	WT																																		
0	YGWA-20S	WT																																		
1	YGWA-24	WT																																		
2	YGWA-25	WT																																		

SAMPLER NAME AND LOCATION: *Yates AAA*
PRINT Name of SAMPLER: *Yates AAA*
SIGNATURE of SAMPLER: *Peter A. Synetos*
DATE signed: *03/02/2021*

TEMP in C: *41.0*
Received on Ice (Y/N): *N*
Custody Sealed/ Cooler (Y/N): *N*
Samples Intact (Y/N): *N*

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Union, GA 30114
 Phone: (770) 384-6526
 Fax:

Section B

Required Project Information:
 Report To: Bedy Stever
 Copy To:
 Purchase Order #: Yates Amer Ops Division
 Project Name: Yates Amer Ops Division
 Project #:

Section C

Invoice Information:
 Attention: Kevin Herring
 Company Name:
 Address:
 Page Quote:
 Page Project Manager: Kevin Herring@paceanaly.com
 Page Profile #: 10840

Regulatory Agency:
Site Location:
 9A

SAMPLE ID
 One Character per box
 (A-Z, 0-9, /)

Sample lots must be unique

MATRIX	CODED	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	START TIME	END TIME	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives	Other	Analytes Test	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
Drinking Water	DMW												X					
Waste Water	WTT												X					
Produced Water	PW												X					
Stormwater	STW												X					
Wastewater	WW												X					
Sludge	SLC												X					
Slurry	WFS												X					
Sludge	WFS												X					
Sludge	WFS												X					
Sludge	WFS												X					

ADDITIONAL COMMENTS

YGM/A-47
 YGM/A-48
 YGM/A-49
 YGM/A-50
 YGM/A-51

WT
 WT
 WT
 WT
 WT

3/1 12:10
 5/1
 PH 5.98
 PH 9.4

RELEASER BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
<i>[Signature]</i>	3-2-81	1736	<i>[Signature]</i>	3-22-81	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: *[Signature]*
 SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: 03/02/2004



CHAIN-OF-CUSTODY / Analytical Request Document

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

tion A

Section B

Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Dalton, GA 30114
 Phone: (770) 384-6525
 Fax: _____

Project Information:
 Report To: Becky Steever
 Copy To: _____
 Project Name: Yates Area - Up Grading
 Project #: _____

Section C

Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 POC Project Manager: kevin.herring@ge.com
 POC Profile #: 10840

Page: 3 of 4
 CDE 1-06

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)	DATE	TIME	DATE	TIME
YQWMA-14S	WT	3/2	1120		
YQWMA-301	WT	3/2	1205		
YQWMA-294	WT	3/2	1135		
YQWMA-296	WT	3/2			
YQWMA-297	WT				
YQWMA-299	WT				

# OF CONTAINERS	Preservatives						
	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol

Analysis Test	Y/N
TDS	X
Cl, F, SO4	X
App III/IV Metals	X
RAD 8316/8320	X

Requested Analytical Parameters (Y/N)

Residual Chlorine (Y/N)

PH: 5.49
5.78

SAMPLE ID	WT	DATE	TIME	DATE	TIME	ACCEP BY / AFFILIATION	DATE	TIME	TEMP In C	SAMPLE CONDITION:		
										Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)
YQWMA-14S	WT	3/2	1120	3/22	1730	McL...	3/22	1730	4.0	Y	N	Y
YQWMA-301	WT	3/2	1205									
YQWMA-294	WT	3/2	1135									
YQWMA-296	WT	3/2										
YQWMA-297	WT											
YQWMA-299	WT											

ADDITIONAL COMMENTS:

RELINQUISHED BY / AFFILIATION: [Signature]

DATE: 3/22/2021

TIME: 1730

ACCEP BY / AFFILIATION: McL...

DATE: 3/22/2021

TIME: 1730

TEMP In C: 4.0

Received on Ice (Y/N): Y

Custody Sealed (Y/N): N

Cooler (Y/N): Y

Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: KOSTEL, KYLE KUSTISIA
 SIGNATURE OF SAMPLER: [Signature]

DATE Signed: 3/22/2021



CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 4
 COC 1 (Updated)

Section A: Client Information

Client Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: GA 30114
 Phone: 770/384-6326
 Fax: [Blank]
 Project Name: Yates Gypsum
 Project #: [Blank]

Section B: Required Project Information

Report To: Becky Steever
 Copy To: [Blank]
 Purchase Order #: [Blank]
 Project Name: Yates Gypsum
 Project #: [Blank]

Section C: Invoice Information

Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Page Quote: [Blank]
 Pace Project Manager: kevin.herring@paceanalytical.com
 Pace Profile #: 10940

SAMPLE ID	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)	
		START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
FB-01	WT	3/21/15	1520	5	✓											
GWA-2	WT	3/21/15	1510	15	✓											
GWA-2R	WT															
GWA-1B	WT															
GWA-2R	WT															
GWA-1B	WT															
GWA-2R	WT															
GWA-1B	WT															

ADDITIONAL COMMENTS: [Blank]

REQUISITIONED BY/AFFILIATION: [Signature]
 DATE: 3/22/15
 TIME: 1520

ACCEPTED BY/AFFILIATION: [Signature]
 DATE: 3/22/15
 TIME: 1730

SAMPLER NAME AND SIGNATURE: [Signature]
 PRINT Name of SAMPLER: Steve Sumner
 SIGNATURE OF SAMPLER: [Signature]

DATE signed: 3/2/12

TEMP in C: 4.0
 Received on Ice: Y
 Custody Sealed: N
 Cooler: Y
 Samples Intact: Y

March 28, 2021

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

RE: Project: YATES RADS
Pace Project No.: 92525214

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES RADS
Pace Project No.: 92525214

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES RADS

Pace Project No.: 92525214

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525214001	YGWA-5I	Water	03/02/21 14:05	03/02/21 17:30
92525214002	YGWA-5D	Water	03/02/21 14:40	03/02/21 17:30
92525214003	DUP-1	Water	03/02/21 00:00	03/02/21 17:30
92525214004	YGWA-47	Water	03/01/21 12:10	03/02/21 17:30
92525214005	YGWA-14S	Water	03/02/21 11:20	03/02/21 17:30
92525214006	YGWA-30I	Water	03/01/21 16:25	03/02/21 17:30
92525214007	FB-01	Water	03/02/21 11:30	03/02/21 17:30
92525214008	DUP-01	Water	03/02/21 00:00	03/02/21 17:30
92525214009	FB-01	Water	03/02/21 15:20	03/02/21 17:30
92525214010	GWA-2	Water	03/02/21 15:10	03/02/21 17:30
92525214011	YGWA-40	Water	03/04/21 10:10	03/05/21 09:20
92525214012	YGWA-17S	Water	03/03/21 12:20	03/05/21 09:20
92525214013	YGWA-18S	Water	03/03/21 13:50	03/05/21 09:20
92525214014	YGWA-18I	Water	03/03/21 15:00	03/05/21 09:20
92525214015	YGWA-39	Water	03/04/21 10:20	03/05/21 09:20
92525214016	YGWA-1D (030321)	Water	03/03/21 14:25	03/05/21 09:20
92525214017	YGWA-1I (030321)	Water	03/03/21 13:35	03/05/21 09:20
92525214018	YGWA-2I (030321)	Water	03/03/21 11:45	03/05/21 09:20
92525214019	YGWA-3I (030321)	Water	03/03/21 17:00	03/05/21 09:20
92525214020	YGWA-3D (030321)	Water	03/03/21 16:00	03/05/21 09:20
92525214021	EB-02 (03032021)	Water	03/03/21 17:15	03/05/21 09:20
92525214022	YGWA-4I	Water	03/03/21 10:35	03/05/21 09:20
92525214023	YGWA-20S	Water	03/03/21 09:40	03/05/21 09:20
92525214024	YGWA-21I	Water	03/03/21 09:35	03/05/21 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525214001	YGWA-5I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214002	YGWA-5D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214003	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214004	YGWA-47	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214005	YGWA-14S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214006	YGWA-30I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214007	FB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214008	DUP-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214009	FB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214010	GWA-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214011	YGWA-40	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214012	YGWA-17S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214013	YGWA-18S	EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525214014	YGWA-18I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214015	YGWA-39	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214016	YGWA-1D (030321)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214017	YGWA-1I (030321)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214018	YGWA-2I (030321)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214019	YGWA-3I (030321)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214020	YGWA-3D (030321)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214021	EB-02 (03032021)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214022	YGWA-4I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214023	YGWA-20S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214024	YGWA-21I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES RADS

Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214001	YGWA-5I					
EPA 9315	Radium-226	0.114 ± 0.190 (0.428)	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	C:68% T:NA 0.465 ± 0.327 (0.633)	pCi/L		03/18/21 12:44	
Total Radium Calculation	Total Radium	C:78% T:92% 0.579 ± 0.517 (1.06)	pCi/L		03/26/21 14:34	
92525214002	YGWA-5D					
EPA 9315	Radium-226	1.21 ± 0.344 (0.294)	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	C:69% T:NA 0.457 ± 0.363 (0.727)	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	C:76% T:95% 1.67 ± 0.707 (1.02)	pCi/L		03/26/21 14:34	
92525214003	DUP-1					
EPA 9315	Radium-226	0.838 ± 0.268 (0.250)	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	C:76% T:NA 0.784 ± 0.426 (0.783)	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	C:78% T:87% 1.62 ± 0.694 (1.03)	pCi/L		03/26/21 14:34	
92525214004	YGWA-47					
EPA 9315	Radium-226	0.387 ± 0.184 (0.224)	pCi/L		03/22/21 08:40	
EPA 9320	Radium-228	C:64% T:NA 0.816 ± 0.389 (0.666)	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	C:75% T:89% 1.20 ± 0.573 (0.890)	pCi/L		03/26/21 14:37	

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214005	YGWA-14S					
EPA 9315	Radium-226	0.283 ± 0.267 (0.565) C:72% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.427 ± 0.338 (0.673) C:76% T:92%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	0.710 ± 0.605 (1.24)	pCi/L		03/26/21 14:37	
92525214006	YGWA-30I					
EPA 9315	Radium-226	0.0562 ± 0.172 (0.408) C:79% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.356 ± 0.278 (0.545) C:76% T:92%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.412 ± 0.450 (0.953)	pCi/L		03/26/21 14:37	
92525214007	FB-01					
EPA 9315	Radium-226	0.121 ± 0.131 (0.267) C:78% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.512 ± 0.332 (0.620) C:73% T:88%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.633 ± 0.463 (0.887)	pCi/L		03/26/21 14:37	
92525214008	DUP-01					
EPA 9315	Radium-226	0.118 ± 0.120 (0.237) C:78% T:NA	pCi/L		03/22/21 08:48	
EPA 9320	Radium-228	0.809 ± 0.394 (0.692) C:79% T:90%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.927 ± 0.514 (0.929)	pCi/L		03/26/21 14:37	

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214009	FB-01					
EPA 9315	Radium-226	-0.00506 ± 0.0722 (0.204) C:84% T:NA	pCi/L		03/22/21 08:48	
EPA 9320	Radium-228	0.675 ± 0.361 (0.652) C:76% T:96%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.675 ± 0.433 (0.856)	pCi/L		03/26/21 14:37	
92525214010	GWA-2					
EPA 9315	Radium-226	0.170 ± 0.157 (0.313) C:75% T:NA	pCi/L		03/22/21 08:47	
EPA 9320	Radium-228	0.778 ± 0.413 (0.738) C:76% T:81%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.948 ± 0.570 (1.05)	pCi/L		03/26/21 14:37	
92525214011	YGWA-40					
EPA 9315	Radium-226	0.268 ± 0.187 (0.319) C:74% T:NA	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	0.550 ± 0.416 (0.827) C:81% T:90%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.818 ± 0.603 (1.15)	pCi/L		03/22/21 10:37	
92525214012	YGWA-17S					
EPA 9315	Radium-226	0.192 ± 0.156 (0.276) C:74% T:NA	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	0.398 ± 0.319 (0.627) C:80% T:89%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.590 ± 0.475 (0.903)	pCi/L		03/22/21 10:37	

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214013	YGWA-18S					
EPA 9315	Radium-226	0.141 ± 0.166 (0.344) C:59% T:NA	pCi/L		03/15/21 09:16	
EPA 9320	Radium-228	0.211 ± 0.322 (0.695) C:73% T:89%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.352 ± 0.488 (1.04)	pCi/L		03/22/21 10:37	
92525214014	YGWA-18I					
EPA 9315	Radium-226	0.381 ± 0.207 (0.351) C:65% T:NA	pCi/L		03/15/21 09:16	
EPA 9320	Radium-228	0.184 ± 0.282 (0.608) C:76% T:92%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.565 ± 0.489 (0.959)	pCi/L		03/22/21 10:37	
92525214015	YGWA-39					
EPA 9315	Radium-226	0.636 ± 0.257 (0.332) C:86% T:NA	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	-0.00538 ± 0.293 (0.687) C:78% T:93%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.636 ± 0.550 (1.02)	pCi/L		03/22/21 10:37	
92525214016	YGWA-1D (030321)					
EPA 9315	Radium-226	0.265 ± 0.193 (0.356) C:78% T:NA	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	0.227 ± 0.376 (0.819) C:76% T:90%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.492 ± 0.569 (1.18)	pCi/L		03/22/21 10:37	

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214017	YGWA-1I (030321)					
EPA 9315	Radium-226	0.0715 ± 0.137 (0.315)	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	C:73% T:NA 0.0339 ± 0.361 (0.831)	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	C:76% T:84% 0.105 ± 0.498 (1.15)	pCi/L		03/26/21 13:42	
92525214018	YGWA-2I (030321)					
EPA 9315	Radium-226	0.236 ± 0.183 (0.351)	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	C:83% T:NA 0.223 ± 0.344 (0.744)	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	C:72% T:93% 0.459 ± 0.527 (1.10)	pCi/L		03/26/21 13:42	
92525214019	YGWA-3I (030321)					
EPA 9315	Radium-226	1.19 ± 0.315 (0.200)	pCi/L		03/22/21 09:34	
EPA 9320	Radium-228	C:81% T:NA 0.837 ± 0.390 (0.655)	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	C:82% T:90% 2.03 ± 0.705 (0.855)	pCi/L		03/26/21 13:42	
92525214020	YGWA-3D (030321)					
EPA 9315	Radium-226	1.88 ± 0.434 (0.259)	pCi/L		03/22/21 08:28	
EPA 9320	Radium-228	C:80% T:NA 1.70 ± 0.544 (0.701)	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	C:74% T:90% 3.58 ± 0.978 (0.960)	pCi/L		03/26/21 13:42	

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214021	EB-02 (03032021)					
EPA 9315	Radium-226	0.0547 ± 0.0827 (0.178) C:78% T:NA	pCi/L		03/22/21 08:29	
EPA 9320	Radium-228	0.157 ± 0.333 (0.736) C:76% T:95%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	0.212 ± 0.416 (0.914)	pCi/L		03/26/21 13:42	
92525214022	YGWA-4I					
EPA 9315	Radium-226	0.783 ± 0.243 (0.164) C:76% T:NA	pCi/L		03/22/21 08:30	
EPA 9320	Radium-228	0.217 ± 0.319 (0.687) C:79% T:90%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	1.000 ± 0.562 (0.851)	pCi/L		03/26/21 13:42	
92525214023	YGWA-20S					
EPA 9315	Radium-226	0.133 ± 0.114 (0.212) C:89% T:NA	pCi/L		03/22/21 08:30	
EPA 9320	Radium-228	-0.163 ± 0.291 (0.711) C:79% T:96%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	0.133 ± 0.405 (0.923)	pCi/L		03/26/21 13:42	
92525214024	YGWA-21I					
EPA 9315	Radium-226	0.861 ± 0.270 (0.318) C:89% T:NA	pCi/L		03/22/21 08:31	
EPA 9320	Radium-228	0.338 ± 0.394 (0.829) C:72% T:86%	pCi/L		03/19/21 15:15	
Total Radium Calculation	Total Radium	1.20 ± 0.664 (1.15)	pCi/L		03/26/21 13:56	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-5I **Lab ID: 92525214001** Collected: 03/02/21 14:05 Received: 03/02/21 17:30 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	0.114 ± 0.190 (0.428) C:68% T:NA	pCi/L	03/22/21 08:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.465 ± 0.327 (0.633) C:78% T:92%	pCi/L	03/18/21 12:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.579 ± 0.517 (1.06)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-5D **Lab ID: 92525214002** Collected: 03/02/21 14:40 Received: 03/02/21 17:30 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	1.21 ± 0.344 (0.294) C:69% T:NA	pCi/L	03/22/21 08:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.457 ± 0.363 (0.727) C:76% T:95%	pCi/L	03/18/21 12:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.67 ± 0.707 (1.02)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: DUP-1 **Lab ID: 92525214003** Collected: 03/02/21 00:00 Received: 03/02/21 17:30 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	0.838 ± 0.268 (0.250) C:76% T:NA	pCi/L	03/22/21 08:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.784 ± 0.426 (0.783) C:78% T:87%	pCi/L	03/18/21 12:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.62 ± 0.694 (1.03)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-47 **Lab ID: 92525214004** Collected: 03/01/21 12:10 Received: 03/02/21 17:30 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	0.387 ± 0.184 (0.224) C:64% T:NA	pCi/L	03/22/21 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.816 ± 0.389 (0.666) C:75% T:89%	pCi/L	03/18/21 12:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20 ± 0.573 (0.890)	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-14S **Lab ID: 92525214005** Collected: 03/02/21 11:20 Received: 03/02/21 17:30 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	0.283 ± 0.267 (0.565) C:72% T:NA	pCi/L	03/22/21 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.427 ± 0.338 (0.673) C:76% T:92%	pCi/L	03/18/21 12:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.710 ± 0.605 (1.24)	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-30I **Lab ID: 92525214006** Collected: 03/01/21 16:25 Received: 03/02/21 17:30 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	0.0562 ± 0.172 (0.408) C:79% T:NA	pCi/L	03/22/21 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.356 ± 0.278 (0.545) C:76% T:92%	pCi/L	03/18/21 12:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.412 ± 0.450 (0.953)	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: FB-01 **Lab ID: 92525214007** Collected: 03/02/21 11:30 Received: 03/02/21 17:30 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	0.121 ± 0.131 (0.267) C:78% T:NA	pCi/L	03/22/21 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.512 ± 0.332 (0.620) C:73% T:88%	pCi/L	03/18/21 12:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.633 ± 0.463 (0.887)	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: DUP-01 **Lab ID: 92525214008** Collected: 03/02/21 00:00 Received: 03/02/21 17:30 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	0.118 ± 0.120 (0.237) C:78% T:NA	pCi/L	03/22/21 08:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.809 ± 0.394 (0.692) C:79% T:90%	pCi/L	03/18/21 12:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.927 ± 0.514 (0.929)	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: FB-01 **Lab ID: 92525214009** Collected: 03/02/21 15:20 Received: 03/02/21 17:30 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	-0.00506 ± 0.0722 (0.204) C:84% T:NA	pCi/L	03/22/21 08:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.675 ± 0.361 (0.652) C:76% T:96%	pCi/L	03/18/21 12:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.675 ± 0.433 (0.856)	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: GWA-2 **Lab ID: 92525214010** Collected: 03/02/21 15:10 Received: 03/02/21 17:30 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	0.170 ± 0.157 (0.313) C:75% T:NA	pCi/L	03/22/21 08:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.778 ± 0.413 (0.738) C:76% T:81%	pCi/L	03/18/21 12:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.948 ± 0.570 (1.05)	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-40 **Lab ID: 92525214011** Collected: 03/04/21 10:10 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.268 ± 0.187 (0.319) C:74% T:NA	pCi/L	03/15/21 09:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.550 ± 0.416 (0.827) C:81% T:90%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.818 ± 0.603 (1.15)	pCi/L	03/22/21 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-17S **Lab ID: 92525214012** Collected: 03/03/21 12:20 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.192 ± 0.156 (0.276) C:74% T:NA	pCi/L	03/15/21 09:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.398 ± 0.319 (0.627) C:80% T:89%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.590 ± 0.475 (0.903)	pCi/L	03/22/21 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-18S **Lab ID: 92525214013** Collected: 03/03/21 13:50 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.141 ± 0.166 (0.344) C:59% T:NA	pCi/L	03/15/21 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.211 ± 0.322 (0.695) C:73% T:89%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.352 ± 0.488 (1.04)	pCi/L	03/22/21 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-181 Lab ID: 92525214014 Collected: 03/03/21 15:00 Received: 03/05/21 09:20 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.381 ± 0.207 (0.351) C:65% T:NA	pCi/L	03/15/21 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.184 ± 0.282 (0.608) C:76% T:92%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.565 ± 0.489 (0.959)	pCi/L	03/22/21 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-39 **Lab ID: 92525214015** Collected: 03/04/21 10:20 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.636 ± 0.257 (0.332) C:86% T:NA	pCi/L	03/15/21 09:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.00538 ± 0.293 (0.687) C:78% T:93%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.636 ± 0.550 (1.02)	pCi/L	03/22/21 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-1D (030321) **Lab ID: 92525214016** Collected: 03/03/21 14:25 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.265 ± 0.193 (0.356) C:78% T:NA	pCi/L	03/15/21 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.227 ± 0.376 (0.819) C:76% T:90%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.492 ± 0.569 (1.18)	pCi/L	03/22/21 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-1I (030321) **Lab ID: 92525214017** Collected: 03/03/21 13:35 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0715 ± 0.137 (0.315) C:73% T:NA	pCi/L	03/15/21 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0339 ± 0.361 (0.831) C:76% T:84%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.105 ± 0.498 (1.15)	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-2I (030321) **Lab ID: 92525214018** Collected: 03/03/21 11:45 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.236 ± 0.183 (0.351) C:83% T:NA	pCi/L	03/15/21 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.223 ± 0.344 (0.744) C:72% T:93%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.459 ± 0.527 (1.10)	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-3I (030321) **Lab ID: 92525214019** Collected: 03/03/21 17:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.19 ± 0.315 (0.200) C:81% T:NA	pCi/L	03/22/21 09:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.837 ± 0.390 (0.655) C:82% T:90%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.03 ± 0.705 (0.855)	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-3D (030321) **Lab ID: 92525214020** Collected: 03/03/21 16:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.88 ± 0.434 (0.259) C:80% T:NA	pCi/L	03/22/21 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.70 ± 0.544 (0.701) C:74% T:90%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.58 ± 0.978 (0.960)	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: EB-02 (03032021) **Lab ID: 92525214021** Collected: 03/03/21 17:15 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0547 ± 0.0827 (0.178) C:78% T:NA	pCi/L	03/22/21 08:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.157 ± 0.333 (0.736) C:76% T:95%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.212 ± 0.416 (0.914)	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-4I **Lab ID: 92525214022** Collected: 03/03/21 10:35 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.783 ± 0.243 (0.164) C:76% T:NA	pCi/L	03/22/21 08:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.217 ± 0.319 (0.687) C:79% T:90%	pCi/L	03/19/21 15:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.000 ± 0.562 (0.851)	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-20S						
Lab ID: 92525214023 Collected: 03/03/21 09:40 Received: 03/05/21 09:20 Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.133 ± 0.114 (0.212) C:89% T:NA	pCi/L	03/22/21 08:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.163 ± 0.291 (0.711) C:79% T:96%	pCi/L	03/19/21 15:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.133 ± 0.405 (0.923)	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-211 **Lab ID: 92525214024** Collected: 03/03/21 09:35 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.861 ± 0.270 (0.318) C:89% T:NA	pCi/L	03/22/21 08:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.338 ± 0.394 (0.829) C:72% T:86%	pCi/L	03/19/21 15:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.20 ± 0.664 (1.15)	pCi/L	03/26/21 13:56	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch: 437643

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214004, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009, 92525214010

METHOD BLANK: 2112540

Matrix: Water

Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214004, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009, 92525214010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.387 ± 0.316 (0.633) C:83% T:90%	pCi/L	03/18/21 12:44	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch: 437642

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

METHOD BLANK: 2112539

Matrix: Water

Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.219 ± 0.271 (0.570) C:75% T:92%	pCi/L	03/19/21 15:12	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch: 437601

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

METHOD BLANK: 2112394

Matrix: Water

Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0425 ± 0.110 (0.264) C:81% T:NA	pCi/L	03/22/21 08:26	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch:	437599	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

METHOD BLANK: 2112389 Matrix: Water

Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00470 ± 0.0712 (0.214) C:85% T:NA	pCi/L	03/15/21 09:18	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch: 437641

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

METHOD BLANK: 2112538

Matrix: Water

Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.312 ± 0.330 (0.686) C:82% T:90%	pCi/L	03/15/21 16:07	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch:	437602	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214004, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009, 92525214010

METHOD BLANK:	2112395	Matrix:	Water
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Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214004, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009, 92525214010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0514 ± 0.104 (0.242) C:82% T:NA	pCi/L	03/22/21 08:37	

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QUALIFIERS

Project: YATES RADS

Pace Project No.: 92525214

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.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS

Pace Project No.: 92525214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525214001	YGWA-5I	EPA 9315	437602		
92525214002	YGWA-5D	EPA 9315	437602		
92525214003	DUP-1	EPA 9315	437602		
92525214004	YGWA-47	EPA 9315	437602		
92525214005	YGWA-14S	EPA 9315	437602		
92525214006	YGWA-30I	EPA 9315	437602		
92525214007	FB-01	EPA 9315	437602		
92525214008	DUP-01	EPA 9315	437602		
92525214009	FB-01	EPA 9315	437602		
92525214010	GWA-2	EPA 9315	437602		
92525214011	YGWA-40	EPA 9315	437599		
92525214012	YGWA-17S	EPA 9315	437599		
92525214013	YGWA-18S	EPA 9315	437599		
92525214014	YGWA-18I	EPA 9315	437599		
92525214015	YGWA-39	EPA 9315	437599		
92525214016	YGWA-1D (030321)	EPA 9315	437599		
92525214017	YGWA-1I (030321)	EPA 9315	437599		
92525214018	YGWA-2I (030321)	EPA 9315	437599		
92525214019	YGWA-3I (030321)	EPA 9315	437601		
92525214020	YGWA-3D (030321)	EPA 9315	437601		
92525214021	EB-02 (03032021)	EPA 9315	437601		
92525214022	YGWA-4I	EPA 9315	437601		
92525214023	YGWA-20S	EPA 9315	437601		
92525214024	YGWA-21I	EPA 9315	437601		
92525214001	YGWA-5I	EPA 9320	437643		
92525214002	YGWA-5D	EPA 9320	437643		
92525214003	DUP-1	EPA 9320	437643		
92525214004	YGWA-47	EPA 9320	437643		
92525214005	YGWA-14S	EPA 9320	437643		
92525214006	YGWA-30I	EPA 9320	437643		
92525214007	FB-01	EPA 9320	437643		
92525214008	DUP-01	EPA 9320	437643		
92525214009	FB-01	EPA 9320	437643		
92525214010	GWA-2	EPA 9320	437643		
92525214011	YGWA-40	EPA 9320	437641		
92525214012	YGWA-17S	EPA 9320	437641		
92525214013	YGWA-18S	EPA 9320	437641		
92525214014	YGWA-18I	EPA 9320	437641		
92525214015	YGWA-39	EPA 9320	437641		
92525214016	YGWA-1D (030321)	EPA 9320	437641		
92525214017	YGWA-1I (030321)	EPA 9320	437641		
92525214018	YGWA-2I (030321)	EPA 9320	437641		
92525214019	YGWA-3I (030321)	EPA 9320	437642		
92525214020	YGWA-3D (030321)	EPA 9320	437642		
92525214021	EB-02 (03032021)	EPA 9320	437642		
92525214022	YGWA-4I	EPA 9320	437642		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS

Pace Project No.: 92525214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525214023	YGWA-20S	EPA 9320	437642		
92525214024	YGWA-21I	EPA 9320	437642		
92525214001	YGWA-5I	Total Radium Calculation	440666		
92525214002	YGWA-5D	Total Radium Calculation	440666		
92525214003	DUP-1	Total Radium Calculation	440666		
92525214004	YGWA-47	Total Radium Calculation	440668		
92525214005	YGWA-14S	Total Radium Calculation	440668		
92525214006	YGWA-30I	Total Radium Calculation	440668		
92525214007	FB-01	Total Radium Calculation	440668		
92525214008	DUP-01	Total Radium Calculation	440668		
92525214009	FB-01	Total Radium Calculation	440668		
92525214010	GWA-2	Total Radium Calculation	440668		
92525214011	YGWA-40	Total Radium Calculation	439752		
92525214012	YGWA-17S	Total Radium Calculation	439752		
92525214013	YGWA-18S	Total Radium Calculation	439752		
92525214014	YGWA-18I	Total Radium Calculation	439752		
92525214015	YGWA-39	Total Radium Calculation	439752		
92525214016	YGWA-1D (030321)	Total Radium Calculation	439752		
92525214017	YGWA-1I (030321)	Total Radium Calculation	440644		
92525214018	YGWA-2I (030321)	Total Radium Calculation	440644		
92525214019	YGWA-3I (030321)	Total Radium Calculation	440644		
92525214020	YGWA-3D (030321)	Total Radium Calculation	440644		
92525214021	EB-02 (03032021)	Total Radium Calculation	440644		
92525214022	YGWA-4I	Total Radium Calculation	440644		
92525214023	YGWA-20S	Total Radium Calculation	440644		
92525214024	YGWA-21I	Total Radium Calculation	440647		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia power

Project #: **WO#: 92525214**

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 3/3/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) ±0

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

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

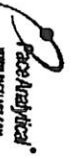
Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Section A

Required Client Information:

Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: Marietta, GA 30114

Section B
Required Project Information:

Report To: Becky Steever
Copy To:

Section C
Invoice Information:

Attention:
Company Name:
Address:
Phone Order:
Paper Project Manager: kevin.henry@pacelabs.com
Paper Profile #: 10840

Page: 1 of 4
COC 104
Regulatory Agency: State / Department: GA

CHAIN-OF-CUSTODY / Analytical Request Document

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

SAMPLE ID
One Character per box.
(A-Z, 0-9/.,-)

MATRIX CODES:
Dinking Water: DWI
Waste Water: WWT
Waste Water: WWF
Produced Water: PW
Sewage: SLD
Other: OTH
Aerial: ARD
Other: OTD
TS

MATRIX CODE (see valid codes to left)
SAMPLE TYPE (G=GRAB C=COMP)

DATE	TIME	COLLECTED	
		START	END
3/12	1405		
3/12	1440		
3/12	-		

SAMPLE TEMP AT COLLECTION

# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other
8								

Analyses Test Y/N

Analyses Test	Y/N
TDS	X
Cl, F, SO4	X
App III/IV Metals	X
RAD 9315/9320	X

Residual Chlorine (Y/N)
925524

NO.	DESCRIPTION	WT	DATE	TIME	DATE	TIME	DATE	TIME	TEMP In C	RECEIVED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	TEMP In C	RECEIVED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE SIGNED
1	YGWA-SI	WT	3/12	1405	3/22	1600	3/22	1600	4.0	PH 5.63 PH 7.15					03/20/2020
2	YGWA-SI	WT	3/12	1440	3/22	1730	3/22	1730	4.0						
3	YGWA-SI	WT	3/12	-											

Sampler Name and State: Peter A. Reynolds, GA

Print Name of Sampler: Peter A. Reynolds

Signature of Sampler: [Signature]

Date Signed: 03/20/2020



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Section B
 Section C

Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: GA 30114

Required Project Information:
 Report To: Becky Stever
 Copy To: _____

Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Order: _____
 Pace Project Manager: Kevin Herring@pacelabs.com
 Pace Profile #: 10840

Project Details:
 Project Name: Yates Groundwater Use Control
 Project #: _____
 Purchase Order #: _____
 State / Location: GA

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
FB-01	WT		3/2	1520		5									X		
GW-A2	WT		3/2	1510		1									X		
GW-BR	WT														X		
GW-GR	WT														X		
GW-LB	WT														X		
GW-MR	WT														X		
GW-OR	WT														X		
GW-PR	WT														X		
GW-UR	WT														X		

ADDITIONAL COMMENTS	REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	3/22	1520	<i>[Signature]</i>	3/27	1520	Received on ice <input type="checkbox"/> (Y/N) Custody Sealed <input type="checkbox"/> (Y/N) Cooler <input type="checkbox"/> (Y/N) Samples Intact <input type="checkbox"/> (Y/N)
	<i>[Signature]</i>	3/26	1738	<i>[Signature]</i>	3/26	1730	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Sally Sibus*

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: 3/2/21

TEMP in C: _____

Received on ice (Y/N)

Custody Sealed (Y/N)

Cooler (Y/N)

Samples Intact (Y/N)

Page: 4 of 4
 GOC 1 (Copies)



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30314

Section B
 Required Project Information:

Report To: Becky Steever
 Copy To:
 Project Name: Yates RS
 Project #:

Section C
 Invoice Information:

Attention: Company Name
 Address:
 Payer Order:
 Payer Project Manager: Kevin.Herring@gaep.com
 Payer Profile #: 10940

Page: 1 of 5
 Code: 002

Regulatory Agency: GA
 State / Location: GA

SAMPLE ID
 One Character per box.
 (A-Z, 0-9 / . -)

MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB C. COMP)

COLLECTED	
START	END
DATE	TIME
DATE	TIME

SAMPLE TEMP AT COLLECTION	
# OF CONTAINERS	
Unpreserved	
H2SO4	
HNO3	
HCl	
NaOH	
Na2S2O3	
Methanol	
Other	

Analyses Test	Y/N
TDS	X
Cl, F, SO4	X
App III/IV Metals	X
RAD 9316/9320	X

Requested Analytic Filtered (Y/N)

Residual Chlorine (Y/N)

ITEM #	MATRIX	COOCD	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N	Requested Analytic Filtered (Y/N)	Residual Chlorine (Y/N)
1	YQWA-10	WT			3/4/21	1645				3/1									X	X	X	
2	YQWA-10	WT																	X	X	X	
3	YQWA-10	WT																	X	X	X	
4	YQWA-10	WT																	X	X	X	
5	YQWA-10	WT																	X	X	X	
6	YQWA-10	WT																	X	X	X	
7	YQWA-10	WT																	X	X	X	
8	YQWA-10	WT																	X	X	X	
9	YQWA-10	WT																	X	X	X	
10	YQWA-10	WT																	X	X	X	
11	YQWA-10	WT																	X	X	X	
12	YQWA-10	WT																	X	X	X	

REINQUIRED BY / AFFILIATION: *Yates RS*

DATE: 3/4/21 TIME: 1645

ACCEPTED BY / AFFILIATION: *Kevin Herring*

DATE: 3/4/21 TIME: 1645

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Kate Spornica*
 SIGNATURE of SAMPLER: *Kate Spornica*

DATE Signed: 3/4/21

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

PH: 5.23
 011



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Required Client Information:

Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: Marietta, GA 30014
Phone: (770)384-6526
Fax: [blank]
Requested Due Date: [blank]

Required Project Information:

Report To: Becky Steever
Copy To: [blank]
Purchase Order #: [blank]
Project Name: Yates AWA
Project #: [blank]

Invoice Information:

Attention: [blank]
Company Name: [blank]
Address: [blank]
Phone: [blank]
Pace Project Manager: kevin.heating@paceanaly.com
Pace Profile #: 10840

Page: 2 of 5
0201

Regulatory Agency: [blank]

State / Location: GA

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analytes Test	Residual Chlorine (Y/N)		
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4			App III/IV Metals	RAD 8316/8320
1	WT																			
2	WT																			
3	WT																			
4	WT																			
5	WT																			
6	WT																			
7	WT		3/3	1220																
8	WT		3/3	1350																
9	WT		3/3	1500																
10	WT																			
11	WT																			
12	WT																			

ADDITIONAL COMMENTS: [blank]

REMOVED BY AFFILIATION: [blank]

DATE: 3/12/17 TIME: 1700

ACCEPTED BY AFFILIATION: [blank]

DATE: 3/15/17 TIME: 0920

REMOVED BY AFFILIATION	DATE	TIME	ACCEPTED BY AFFILIATION	DATE	TIME	TEMP IN C	Received on Ice (Y/N)	Cooler Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
[Signature]	3/12/17	1700	[Signature]	3/15/17	0920					

SAMPLER NAME AND SIGNATURE: Jake Swanson

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 3/14/17



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Requested Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Dalton, GA 30114
 Phone: (770)384-6526
 Fax: [blank]
 Requested Due Date: [blank]

Section B
 Required Project Information:
 Report To: Becky Steever
 Copy To: [blank]
 Purchase Order #: [blank]
 Project Name: Yates NS
 Project #: [blank]

Section C
 Invoice Information:
 Company Name: [blank]
 Address: [blank]
 Pace Quote #: [blank]
 Pace Project Manager: Kevin Herring
 Pace Profile #: 10840

Regulatory Agency: [blank]
 State Location: GA

ITEM #	SAMPLE ID (A-Z, 0-9 / .)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives							Analytes Test	Y/N	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)					
				START DATE	END DATE	DATE	TIME		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320
				TIME	TIME	TIME	TIME																	
1	YGWA-39		WT					5																
2	YGWA-40		WT																					
3	YGWA-41		WT																					
4	YGWA-42		WT																					
5	YGWA-43		WT																					
6	YGWA-44		WT																					
7	YGWA-45		WT																					
8	YGWA-46		WT																					
9	YGWA-47		WT																					
10	YGWA-48		WT																					
11	YGWA-49		WT																					
12	YGWA-50		WT																					

ADDITIONAL COMMENTS: [blank]

REQUISITED BY / AFFILIATION: Jake Swanson
 DATE: 3/14/12
 TIME: 1200

ACCEPTED BY / AFFILIATION: [Signature]
 DATE: 3/15/12
 TIME: 0920

TEMP in C: [blank]

Received on Ice (Y/N)

Custody Sealed (Y/N)

Cooler (Y/N)

Samples Intact (Y/N)

Regulatory Agency: [blank]

State Location: GA

Page: 3 of 5



CHAIN-OF-CUSTODY / Analytical Request Document

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Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: Atlanta, GA 30314
Phone: (770) 304-6526
Fax: [blank]
Requested Date: [blank]

Section B
Required Project Information:
Report To: Becky Steever
Copy To: [blank]
Purchase Order #: [blank]
Project Name: Yates AP-2
Project #: [blank]

Section C
Invoice Information:
Attention: [blank]
Company Name: [blank]
Address: [blank]
Phone: [blank]
Fax: [blank]
Project Manager: Kevin.Nemmy@ge.com
Project #: 10840

Page: 4 of 5
PDC
06

Requested Analytic Filtered (Y/N)
Requester/Analytic Filtered (Y/N)
Residual Chlorine (Y/N)
SAMPLER NAME AND SIGNATURE: [blank]
DATE: [blank]
TIME: [blank]
ACCEPTED BY (OPERATOR): [blank]
DATE: [blank]
TIME: [blank]
SAMPLER NAME AND SIGNATURE: [blank]
DATE: [blank]
TIME: [blank]

ITEM #	SAMPLE ID	MATRIX	CODED	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	Residual Chlorine (Y/N)	PH
				START	END						
1	YGWA-10 (030321)	Drinking Water	DWG			5.0	5	H2SO4	TDS		7.20
2	YGWA-18 (030321)	Drinking Water	DWG			5.0	5	HNO3	Cl, F, SO4		5.36
3	YGWA-21 (030321)	Drinking Water	DWG			5.0	5	HCl	App III/IV Metals		7.92
4	YGWA-31 (030321)	Drinking Water	DWG			5.0	5	NaOH	RAD 0315/0320		8.23
5	YGWA-30 (030321)	Drinking Water	DWG			5.0	5	Na2S2O3			8.35
6	YGWA-32	Drinking Water	DWG			5.0	5	Methanol			
7	YGWA-33	Drinking Water	DWG			5.0	5	Other			
8	YGWA-25	Drinking Water	DWG			5.0	5				
9	YGWA-28	Drinking Water	DWG			5.0	5				
10	YGWA-27	Drinking Water	DWG			5.0	5				
11	YGWA-27	Drinking Water	DWG			5.0	5				
12	YGWA-28	Drinking Water	DWG			5.0	5				
RECEIVED BY (OPERATOR): [Signature]											
DATE: [blank] TIME: [blank]											
ACCEPTED BY (OPERATOR): [Signature]											
DATE: [blank] TIME: [blank]											
SAMPLER NAME AND SIGNATURE: [blank]											
DATE: [blank] TIME: [blank]											



CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Project Name: Yates AMA
 Project #: 10940

Section B
 Requested Project Information:
 Report To: Betty Steeper
 Copy To:
 Purchase Order #:
 Project #:

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin Herring
 Pace Profile #: 10940
 Requested Analysis Preferred (Y/N):
 Residual Chlorine (Y/N):
 State & Location: GA

Page: 5 of 5
Case 1

Requested Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Project Name: Yates AMA
 Project #: 10940

Request Project Information:
 Report To: Betty Steeper
 Copy To:
 Purchase Order #:
 Project #:

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin Herring
 Pace Profile #: 10940
 Requested Analysis Preferred (Y/N):
 Residual Chlorine (Y/N):
 State & Location: GA

Requested Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Project Name: Yates AMA
 Project #: 10940

Request Project Information:
 Report To: Betty Steeper
 Copy To:
 Purchase Order #:
 Project #:

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin Herring
 Pace Profile #: 10940
 Requested Analysis Preferred (Y/N):
 Residual Chlorine (Y/N):
 State & Location: GA

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives							Analytes Test	Y/N	Requester Analysis Preferred (Y/N)	Residual Chlorine (Y/N)	State & Location
			START DATE	START TIME	END DATE	END TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS					
1	WT																			
2	WT																			
3	WT																			
4	YGWA-41	WT																		
5	YGWA-51	WT																		
6	YGWA-50	WT																		
7	YGWA-49	WT																		
8	YGWA-48	WT																		
9	YGWA-47	WT																		
10	YGWA-20S	WT																		
11	YGWA-21I	WT																		
12	YGWC-23S	WT																		

Requester Name and Signature:
 PRINT Name of SAMPLER: Peter Argenti
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 03/04/2004

Requester Name and Signature:
 PRINT Name of SAMPLER: Charles Paul
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 3/5/21/0920

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

April 01, 2021

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

RE: Project: YATES RADS
Pace Project No.: 92525245

Dear Ms. Petty:

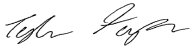
Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, 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
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES RADS
Pace Project No.: 92525245

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES RADS

Pace Project No.: 92525245

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525245001	YGWC-26S	Water	03/02/21 14:00	03/02/21 17:30
92525245002	YGWC-28I	Water	03/03/21 13:40	03/05/21 09:20
92525245003	YGWC-29I	Water	03/03/21 10:45	03/05/21 09:20
92525245004	EB-01	Water	03/03/21 16:25	03/05/21 09:20
92525245005	DUP-02	Water	03/03/21 00:00	03/05/21 09:20
92525245006	YGWC-26I	Water	03/03/21 09:15	03/05/21 09:20
92525245007	YGWC-27S	Water	03/03/21 14:40	03/05/21 09:20
92525245008	YGWC-27I	Water	03/03/21 15:40	03/05/21 09:20
92525245009	YGWC-28S	Water	03/03/21 11:55	03/05/21 09:20
92525237007	EB-01	Water	03/03/21 10:20	03/05/21 09:20

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SAMPLE ANALYTE COUNT

Project: YATES RADS

Pace Project No.: 92525245

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525245001	YGWC-26S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245002	YGWC-28I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245003	YGWC-29I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245004	EB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245005	DUP-02	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245006	YGWC-26I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245007	YGWC-27S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245008	YGWC-27I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245009	YGWC-28S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525237007	EB-01	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525245

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525245001	YGWC-26S					
EPA 9315	Radium-226	0.174 ± 0.161 (0.324) C:79% T:NA	pCi/L		03/22/21 08:47	
EPA 9320	Radium-228	0.220 ± 0.328 (0.707) C:76% T:84%	pCi/L		03/18/21 16:20	
Total Radium Calculation	Total Radium	0.394 ± 0.489 (1.03)	pCi/L		03/26/21 14:37	
92525245002	YGWC-28I					
EPA 9315	Radium-226	0.185 ± 0.134 (0.232) C:79% T:NA	pCi/L		03/22/21 08:31	
EPA 9320	Radium-228	0.0761 ± 0.370 (0.842) C:77% T:84%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	0.261 ± 0.504 (1.07)	pCi/L		03/26/21 14:34	
92525245003	YGWC-29I					
EPA 9315	Radium-226	0.706 ± 0.253 (0.319) C:75% T:NA	pCi/L		03/22/21 08:32	
EPA 9320	Radium-228	0.249 ± 0.300 (0.631) C:78% T:90%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	0.955 ± 0.553 (0.950)	pCi/L		03/26/21 14:34	
92525245004	EB-01					
EPA 9315	Radium-226	0.235 ± 0.154 (0.266) C:81% T:NA	pCi/L		03/22/21 08:32	
EPA 9320	Radium-228	0.278 ± 0.304 (0.631) C:81% T:86%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	0.513 ± 0.458 (0.897)	pCi/L		03/26/21 14:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES RADS

Pace Project No.: 92525245

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525245005	DUP-02					
EPA 9315	Radium-226	0.132 ± 0.133 (0.268)	pCi/L		03/22/21 08:32	
EPA 9320	Radium-228	C:81% T:NA 0.222 ± 0.291 (0.619)	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	C:80% T:87% 0.354 ± 0.424 (0.887)	pCi/L		03/26/21 14:34	
92525245006	YGWC-26I					
EPA 9315	Radium-226	0.247 ± 0.138 (0.196)	pCi/L		03/22/21 08:35	
EPA 9320	Radium-228	C:85% T:NA 0.172 ± 0.331 (0.728)	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	C:79% T:83% 0.419 ± 0.469 (0.924)	pCi/L		03/26/21 14:34	
92525245007	YGWC-27S					
EPA 9315	Radium-226	0.106 ± 0.158 (0.352)	pCi/L		03/22/21 08:35	
EPA 9320	Radium-228	C:75% T:NA 0.221 ± 0.341 (0.738)	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	C:81% T:91% 0.327 ± 0.499 (1.09)	pCi/L		03/26/21 14:34	
92525245008	YGWC-27I					
EPA 9315	Radium-226	1.24 ± 0.329 (0.257)	pCi/L		03/22/21 08:35	
EPA 9320	Radium-228	C:81% T:NA 0.147 ± 0.332 (0.737)	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	C:80% T:89% 1.39 ± 0.661 (0.994)	pCi/L		03/26/21 14:34	

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SUMMARY OF DETECTION

Project: YATES RADS

Pace Project No.: 92525245

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525245009	YGWC-28S					
EPA 9315	Radium-226	0.474 ± 0.200 (0.258) C:76% T:NA	pCi/L		03/22/21 08:35	
EPA 9320	Radium-228	0.561 ± 0.364 (0.687) C:80% T:87%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	1.04 ± 0.564 (0.945)	pCi/L		03/26/21 14:34	
92525237007	EB-01					
EPA 9315	Radium-226	0.246 ± 0.217 (0.430) C:89% T:NA	pCi/L		03/16/21 09:12	
EPA 9320	Radium-228	-0.235 ± 0.356 (0.889) C:63% T:86%	pCi/L		03/19/21 15:12	
Total Radium Calculation	Total Radium	0.246 ± 0.573 (1.32)	pCi/L		03/27/21 10:18	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

Sample: YGWC-26S **Lab ID: 92525245001** Collected: 03/02/21 14:00 Received: 03/02/21 17:30 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	0.174 ± 0.161 (0.324) C:79% T:NA	pCi/L	03/22/21 08:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.220 ± 0.328 (0.707) C:76% T:84%	pCi/L	03/18/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.394 ± 0.489 (1.03)	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

Sample: YGWC-28I **Lab ID: 92525245002** Collected: 03/03/21 13:40 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.185 ± 0.134 (0.232) C:79% T:NA	pCi/L	03/22/21 08:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0761 ± 0.370 (0.842) C:77% T:84%	pCi/L	03/19/21 15:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.261 ± 0.504 (1.07)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

Sample: YGWC-29I **Lab ID: 92525245003** Collected: 03/03/21 10:45 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.706 ± 0.253 (0.319) C:75% T:NA	pCi/L	03/22/21 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.249 ± 0.300 (0.631) C:78% T:90%	pCi/L	03/19/21 15:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.955 ± 0.553 (0.950)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

Sample: EB-01 **Lab ID: 92525245004** Collected: 03/03/21 16:25 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.235 ± 0.154 (0.266) C:81% T:NA	pCi/L	03/22/21 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.278 ± 0.304 (0.631) C:81% T:86%	pCi/L	03/19/21 15:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.513 ± 0.458 (0.897)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

Sample: DUP-02 **Lab ID: 92525245005** Collected: 03/03/21 00:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.132 ± 0.133 (0.268) C:81% T:NA	pCi/L	03/22/21 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.222 ± 0.291 (0.619) C:80% T:87%	pCi/L	03/19/21 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.354 ± 0.424 (0.887)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

Sample: YGWC-261 **Lab ID: 92525245006** Collected: 03/03/21 09:15 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.247 ± 0.138 (0.196) C:85% T:NA	pCi/L	03/22/21 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.172 ± 0.331 (0.728) C:79% T:83%	pCi/L	03/19/21 15:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.419 ± 0.469 (0.924)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

Sample: YGWC-27S **Lab ID: 92525245007** Collected: 03/03/21 14:40 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.106 ± 0.158 (0.352) C:75% T:NA	pCi/L	03/22/21 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.221 ± 0.341 (0.738) C:81% T:91%	pCi/L	03/19/21 15:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.327 ± 0.499 (1.09)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

Sample: YGWC-271 **Lab ID: 92525245008** Collected: 03/03/21 15:40 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.24 ± 0.329 (0.257) C:81% T:NA	pCi/L	03/22/21 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.147 ± 0.332 (0.737) C:80% T:89%	pCi/L	03/19/21 15:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.39 ± 0.661 (0.994)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

Sample: YGWC-28S **Lab ID: 92525245009** Collected: 03/03/21 11:55 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.474 ± 0.200 (0.258) C:76% T:NA	pCi/L	03/22/21 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.561 ± 0.364 (0.687) C:80% T:87%	pCi/L	03/19/21 15:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.04 ± 0.564 (0.945)	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

Sample: EB-01 **Lab ID: 92525237007** Collected: 03/03/21 10:20 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.246 ± 0.217 (0.430) C:89% T:NA	pCi/L	03/16/21 09:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.235 ± 0.356 (0.889) C:63% T:86%	pCi/L	03/19/21 15:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.246 ± 0.573 (1.32)	pCi/L	03/27/21 10:18	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

QC Batch: 437953

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525237007

METHOD BLANK: 2114136

Matrix: Water

Associated Lab Samples: 92525237007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.856 ± 0.495 (0.916) C:71% T:73%	pCi/L	03/19/21 11:52	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

QC Batch: 437937

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525237007

METHOD BLANK: 2114109

Matrix: Water

Associated Lab Samples: 92525237007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0804 ± 0.198 (0.468) C:67% T:NA	pCi/L	03/16/21 08:04	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

QC Batch: 437643

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525245001

METHOD BLANK: 2112540

Matrix: Water

Associated Lab Samples: 92525245001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.387 ± 0.316 (0.633) C:83% T:90%	pCi/L	03/18/21 12:44	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525245

QC Batch: 437642

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525245002, 92525245003, 92525245004, 92525245005, 92525245006, 92525245007, 92525245008, 92525245009

METHOD BLANK: 2112539

Matrix: Water

Associated Lab Samples: 92525245002, 92525245003, 92525245004, 92525245005, 92525245006, 92525245007, 92525245008, 92525245009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.219 ± 0.271 (0.570) C:75% T:92%	pCi/L	03/19/21 15:12	

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 RADS

Pace Project No.: 92525245

QC Batch: 437601

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525245002, 92525245003, 92525245004, 92525245005, 92525245006, 92525245007, 92525245008, 92525245009

METHOD BLANK: 2112394

Matrix: Water

Associated Lab Samples: 92525245002, 92525245003, 92525245004, 92525245005, 92525245006, 92525245007, 92525245008, 92525245009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0425 ± 0.110 (0.264) C:81% T:NA	pCi/L	03/22/21 08:26	

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 RADS

Pace Project No.: 92525245

QC Batch: 437602

QC Batch Method: EPA 9315

Analysis Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525245001

METHOD BLANK: 2112395

Matrix: Water

Associated Lab Samples: 92525245001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0514 ± 0.104 (0.242) C:82% T:NA	pCi/L	03/22/21 08:37	

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 RADS

Pace Project No.: 92525245

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.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92525245

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525245001	YGWC-26S	EPA 9315	437602		
92525237007	EB-01	EPA 9315	437937		
92525245002	YGWC-28I	EPA 9315	437601		
92525245003	YGWC-29I	EPA 9315	437601		
92525245004	EB-01	EPA 9315	437601		
92525245005	DUP-02	EPA 9315	437601		
92525245006	YGWC-26I	EPA 9315	437601		
92525245007	YGWC-27S	EPA 9315	437601		
92525245008	YGWC-27I	EPA 9315	437601		
92525245009	YGWC-28S	EPA 9315	437601		
92525245001	YGWC-26S	EPA 9320	437643		
92525237007	EB-01	EPA 9320	437953		
92525245002	YGWC-28I	EPA 9320	437642		
92525245003	YGWC-29I	EPA 9320	437642		
92525245004	EB-01	EPA 9320	437642		
92525245005	DUP-02	EPA 9320	437642		
92525245006	YGWC-26I	EPA 9320	437642		
92525245007	YGWC-27S	EPA 9320	437642		
92525245008	YGWC-27I	EPA 9320	437642		
92525245009	YGWC-28S	EPA 9320	437642		
92525245001	YGWC-26S	Total Radium Calculation	440668		
92525237007	EB-01	Total Radium Calculation	440752		
92525245002	YGWC-28I	Total Radium Calculation	440666		
92525245003	YGWC-29I	Total Radium Calculation	440666		
92525245004	EB-01	Total Radium Calculation	440666		
92525245005	DUP-02	Total Radium Calculation	440666		
92525245006	YGWC-26I	Total Radium Calculation	440666		
92525245007	YGWC-27S	Total Radium Calculation	440666		
92525245008	YGWC-27I	Total Radium Calculation	440666		
92525245009	YGWC-28S	Total Radium Calculation	440666		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia power

Project #:

WO#: 92525245



92525245

Date/Initials Person Examining Contents: *MT 3/3/21*

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

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: *230* Type of Ice: Wet Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: *4.0* Correction Factor: Add/Subtract (°C) *+0*

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

Cooler Temp Corrected (°C): *4.0*

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Ion A

Required Client Information:

Company: Georgia Power
 Address: 1070 Bkqgc Mill Ave
 City: Ga 30114
 Phone: (770) 394-5526
 Fax: [blank]
 Project Name: Yates AP-2
 Project #:

Required Project Information:

Report To: Bucky Steever
 Copy To:
 Purchase Order #:
 Project Name: Yates AP-2
 Project #:

Invoice Information:

Attention:
 Company Name:
 Address:
 POC Name:
 POC Project Manager: Kevin.Henry@pacelabs.com
 POC Profile #: 10840

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

Regulatory Agency: **OCB 3 AP2 06**

State / Location: **GA**

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)

MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
		START DATE	END DATE						
YGMW-11	WT				Unpreserved		TDS		
YGMW-12	WT				H2SO4		Cl, F, SO4		
YGMW-13	WT				HNO3		App. H/V Metals		
YGMW-14	WT				HCl		RAD 0315/0320		
YGMW-15	WT				NaOH				
YGMW-16	WT				Na2S2O3				
YGMW-17	WT				Methanol				
YGMW-18	WT				Other				
YGMW-19	WT								
YGMW-20	WT								
YGMW-21	WT								
YGMW-22	WT								
YGMW-23	WT								
YGMW-24	WT								
YGMW-25	WT								
YGMW-26	WT								
YGMW-27	WT								
YGMW-28	WT								
YGMW-29	WT								
YGMW-30	WT								
YGMW-31	WT								
YGMW-32	WT								
YGMW-33	WT								
YGMW-34	WT								
YGMW-35	WT								
YGMW-36	WT								
YGMW-37	WT								
YGMW-38	WT								
YGMW-39	WT								
YGMW-40	WT								
YGMW-41	WT								
YGMW-42	WT								
YGMW-43	WT								
YGMW-44	WT								
YGMW-45	WT								
YGMW-46	WT								
YGMW-47	WT								
YGMW-48	WT								
YGMW-49	WT								
YGMW-50	WT								

ADDITIONAL COMMENTS	RETIQUISHED BY (AFR/LA/TH)	DATE	TIME	ACCEPTED BY (AFR/LA/TH)	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
	<i>[Signature]</i>	3/20/17	17:30	<i>[Signature]</i>	3/21/17	17:30	4.0	Y	Y	Y	Y

SAMPLER NAME AND SIGNATURE:

PRINT Name of SAMPLER: **KATE SPYRANCZ**

SIGNATURE OF SAMPLER: *[Signature]*

DATE Signed: **3/22/17**



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: GA 30114
 Phone: (770) 384-6526
 Fax: [blank]
 Justified Due Date: [blank]

Section B

Required Project Information:

Report To: Becky Steever
 Copy To: [blank]
 Purchase Order #: Yates AP-2
 Project Name: Yates AP-2
 Project #:

Section C

Invoice Information:

Attention: [blank]
 Company Name: [blank]
 Address: [blank]
 Project Manager: Kevin.Herrington@parabats.com
 Project Profile #: 10840

Page: 2 of 2

COG 3

Regulatory Agency: GA

State / Location: GA

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)		
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	
1	YSW-01	WT				5/1											
2	YSW-02	WT				5/1											
3	YSW-03	WT				5/1											
4	YSW-04	WT				5/1											
5	YSW-05	WT				5/1											
6	YSW-06	WT				5/1											
7	YSW-07	WT				5/1											
8	YSW-08	WT				5/1											
9	YSW-09	WT				5/1											
10	YSW-10	WT				5/1											
11	YSW-11	WT				5/1											
12	YSW-12	WT				5/1											

MATRIX	CODE	WT	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
YSW-01	WT	33.4	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-02	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-03	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-04	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-05	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-06	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-07	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-08	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-09	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-10	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-11	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21
YSW-12	WT	33.2	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21	10/25	5/1	1/1	3/4/21

RELEASING BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP In C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
[Signature]	3/4/21	10/25	[Signature]	3/4/21	10/25					

SAMPLER NAME AND SIGNATURE		DATE SIGNED
PRINT Name of SAMPLER: KATE R. PEWICZ	[Signature]	3/3/21
SIGNATURE of SAMPLER: [Signature]	[Signature]	3/3/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: LAL
 Date: 3/10/2021
 Worklist: 59153
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2112394
MB Concentration:	0.043
M/B Counting Uncertainty:	0.110
MB MDC:	0.264
MB Numerical Performance Indicator:	0.76
MB Status vs. Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	N
Count Date:	3/22/2021	LCSD59153	LCSD59153
Spike I.D.:	19-033		
Decay Corrected Spike Concentration (pCi/mL):	24.039		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.505		
Target Conc. (pCi/L, g, F):	4.756		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	5.078		
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.518		
Numerical Performance Indicator:	1.21		
Percent Recovery:	106.78%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.	
Sample I.D.:	92525363011	92525363011	92525363011
Duplicate Sample I.D.:	92525363011DUP		
Sample Result (pCi/L, g, F):	0.103		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.137		
Sample Duplicate Result (pCi/L, g, F):	0.063		
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.101		
Are sample and/or duplicate results below RL?	See Below##		
Duplicate Numerical Performance Indicator:	0.675		
Duplicate RPD:	64.02%		
Duplicate Status vs Numerical Indicator:	N/A		
Duplicate Status vs RPD:	Fail**		
% RPD Limit:	25%		

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 1AM 3/22/21

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 Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate 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:		

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: Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: Matrix Spike Duplicate 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:

OK
 3/10/21
 LAL
 3/22/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/10/2021
Worklist: 59153
Matrix: DW

Method Blank Assessment	MB Sample ID: 2112394
	MB concentration: 0.043
	M/B Counting Uncertainty: 0.110
	MB MDC: 0.264
	MB Numerical Performance Indicator: 0.76
	MB Status vs Numerical Indicator: N/A
	MB Status vs. MDC: Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS59153	Y
Count Date:	3/22/2021	LCS59153
Spike ID.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.506
Target Conc. (pCi/L, g, F):	4.756	4.749
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.078	4.939
LCSD Counting Uncertainty (pCi/L, g, F):	0.518	0.508
Numerical Performance Indicator:	1.21	0.73
Percent Recovery:	106.78%	104.01%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below. 92525363011 92525363011DUP
Sample I.D.:	LCS59153
Duplicate Sample I.D.:	LCS59153
Sample Result (pCi/L, g, F):	5.078
Sample Duplicate Result (pCi/L, g, F):	0.518
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.939
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.508
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.375
Duplicate Percent Recoveries): Duplicate RPD:	2.62%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc.(pCi/L, g, F): MSD Aliquot (L, g, F): 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: Sample 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:		

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: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate 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:

10/02/21
LAL
VAM 3/22/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/10/2021
Worklist: 59154
Matrix: DW

Method Blank Assessment	
MB Sample ID	2112395
MB Concentration:	0.051
MB Counting Uncertainty:	0.104
MB MDC:	0.242
MB Numerical Performance Indicator:	0.97
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS59154	Y
Count Date:	LCS059154	3/22/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.505
Target Conc. (pCi/L, g, F):	4.759	4.756
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.732	4.926
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.549	0.502
Numerical Performance Indicator:	3.45	0.66
Percent Recovery:	120.45%	103.59%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS59154
Duplicate Sample I.D.:	LCS059154
Sample Result (pCi/L, g, F):	5.732
Sample Duplicate Result (pCi/L, g, F):	0.549
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.926
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.502
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.122
Duplicate Status vs Numerical Indicator:	15.06%
Duplicate Status vs RPD:	N/A
% RPD Limit:	Pass
	25%

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

Comments:

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 Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: MS Numerical Performance Indicator: MSD Numerical Performance Indicator:		
MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: 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:

Matrix Spike

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/10/2021
Worklist: 59154
Matrix: DW

Method Blank Assessment	
MB Sample ID	2112395
MB concentration:	0.051
M/B Counting Uncertainty:	0.104
MB MDC:	0.242
MB Numerical Performance Indicator:	0.97
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCS59154	LCS059154
Count Date:	3/22/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.505
Target Conc. (pCi/L, g, F):	4.759
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	5.732
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.549
Numerical Performance Indicator:	3.45
Percent Recovery:	120.45%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	92525214001
Duplicate Sample I.D.:	92525214001DUP
Sample Result (pCi/L, g, F):	0.114
Sample Result Counting Uncertainty (pCi/L, g, F):	0.189
Sample Duplicate Result (pCi/L, g, F):	0.134
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.113
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	-0.180
Duplicate RPD:	16.34%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
92525214001
92525214001DUP

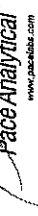
Comments:

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): MS 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: 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 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:

Handwritten notes:
19/03/2021
LAL 3/22/21

Quality Control Sample Performance Assessment



Analyst: Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/15/2021
Worklist: 59158
Matrix: WT

Method Blank Assessment	
MB Sample ID	2112539
MB concentration:	0.219
MB 2 Sigma CSU:	0.271
MB MDC:	0.570
MB Numerical Performance Indicator:	1.59
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		LCS59158	3/19/2021
Spike I.D.:		LCS59158	21-003
Decay Corrected Spike Concentration (pCi/mL):		38.405	38.405
Volume Used (L, g, F):		0.10	0.10
Aliquot Volume (L, g, F):		0.804	0.813
Target Conc. (pCi/L, g, F):		4.777	4.724
Uncertainty (Calculated):		0.234	0.231
Result (pCi/L, g, F):		3.857	3.041
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		0.900	0.755
Numerical Performance Indicator:		-1.94	-4.18
Percent Recovery:		80.76%	64.39%
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	
LCS59158	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
LCS59158	
3.857	
0.900	
3.041	
0.755	
NO	
1.362	
22.55%	
Pass	
Pass	
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.: 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: 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:

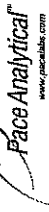
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

3/24/21

3/15/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: **Re-228**
 Analyst: **VAL**
 Date: **3/15/2021**
 Worklist: **59159**
 Matrix: **WT**

Method Blank Assessment	
MB Sample ID	2112540
MB concentration:	0.387
M/B 2 Sigma CSU:	0.316
MB MDC:	0.633
MB Numerical Performance Indicator:	2.40
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS/D (Y or N)?	Y
LCS59159 3/18/2021	LCS59159 3/18/2021
Count Date:	21-003
Spike I.D.:	38.419
Decay Corrected Spike Concentration (pCi/mL):	0.10
Volume Used (mL):	0.810
Aliquot Volume (L, g, F):	0.801
Target Conc. (pCi/L, g, F):	4.741
Uncertainty (Calculated):	4.794
Result (pCi/L, g, F):	0.235
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	4.001
Numerical Performance Indicator:	0.884
Percent Recovery:	-1.70
Status vs Numerical Indicator:	83.47%
Status vs Recovery:	N/A
Upper % Recovery Limits:	Pass
Lower % Recovery Limits:	135%
	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS59159
Duplicate Sample I.D.:	LCS59159
Sample Result (pCi/L, g, F):	4.345
Sample Duplicate Result (pCi/L, g, F):	0.951
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.001
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.884
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.519
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.34%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	38%

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

Comments:

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MS/MSD 1	MS/MSD 2
<p>Sample Matrix Spike Control Assessment</p> <p>Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (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):</p> <p>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:</p>	

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D. Sample MS I.D. Sample MSD I.D.</p> <p>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:</p>

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APPENDIX C

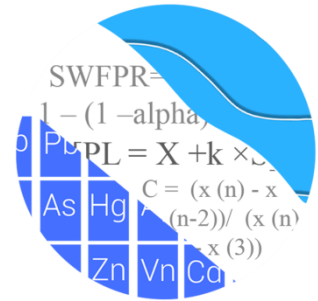
Statistical Analysis



Appendix III Statistically Significant Increase Summary (March 2021)

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-28I, YGWC-28S
Sulfate	YGWC-27S

GROUNDWATER STATS CONSULTING



August 24, 2021

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)
March 2021 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 2021 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, Groundwater Statistician and Founder of Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event, and sampling of those constituents is not required during the subsequent events. During the annual Scan event conducted in February 2021, mercury and thallium were not detected; therefore, they were not required to be sampled during the subsequent events. In some cases, upgradient wells at a given unit were not sampled for all constituents if no detections were present at downgradient wells for that particular unit. The following constituents were not detected during their respective Scan events at other Plant Yates units; therefore, upgradient wells at the units listed below were not sampled for these constituents:

- Yates Gypsum Landfill: molybdenum
- Yates AP-1: cadmium, mercury, selenium, and thallium
- Yates AMA-R6: thallium

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 April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against 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 and Trend Testing

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).

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.

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 – March 2021

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. A single high pH value in upgradient well YGWA-47 from AP-1 was flagged as an outlier during earlier screenings since it was higher than the other measurements within this well. The March 2021 value of 6.51 s.u. for pH in downgradient well YGWC-28I was provided by Arcadis as a correction to the original lab report value of 66.51 s.u. A drastic increase in concentrations was also identified for sulfate during the March 2021 sampling event with a reported observation of 451 mg/L in downgradient well YGWC-27S; however, this value was not flagged as outlier and will be reviewed. If this value is determined to be anomalous, it will be flagged as an outlier for future analyses. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new outliers were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through March 2021 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). Note that reporting limit changes during this analysis occurred for boron (from <0.1 mg/L to <0.04 mg/L), but there were no changes in statistical limits.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. 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-28I, and YGWC-28S
- Sulfate: YGWC-27S

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 (all upgradient)
- Sulfate: YGWA-1D, YGWA-3D, YGWA-5I, and GWA-2 (all upgradient)

Decreasing:

- Boron: YGWA-21I (upgradient)
- Chloride: YGWA-3D (upgradient), YGWA-3I (upgradient), YGWA-5D (upgradient), YGWA-47 (upgradient), YGWC-26S, and YGWC-28I
- Sulfate: YGWA-5D, YGWA-39, YGWA-40, YGWA-47 (all upgradient)

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 – March 2021

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 0.21 mg/L from March 2021 for cobalt at upgradient well GWA-2, along with high values 0.20 mg/L and 0.16 mg/L from August and September 2020, were two orders of magnitude higher than the other values for that well. The August and September 2020 values were flagged during the previous analysis, and the March 2021 value was flagged as an outlier during this analysis in order to maintain limits that were conservative from a regulatory perspective. However, since three observations were reported at this level, further study may indicate that the values should not be flagged for future analyses. A summary of flagged outliers follows this report (Figure C).

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data 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. 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).

As described in 40 CFR §257.95(h) (1-3), the Federal 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, CCR-rule specified levels have been specified 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

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the State GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above Federal CCR and Georgia EPD Rule requirements, Federal and State GWPS were established for Appendix IV constituents for the March 2021 sample event (Figure G). To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well using all historical data through March 2021 according to both Federal and State rules (Figures H and I, respectively). As mentioned above, confidence intervals were not required for mercury and thallium or downgradient well/constituent pairs with 100% non-detects.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for the State requirements. 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. Note that reporting limits decreased for the following constituents during this analysis:

- Beryllium from <0.003 mg/L to <0.0005 mg/L
- Cadmium from <0.0025 mg/L to <0.0005 mg/L
- Chromium from <0.01 mg/L to <0.005 mg/L
- Lead from <0.005 mg/L to <0.001 mg/L
- Mercury from <0.0005 mg/L to <0.0002 mg/L
- Selenium from <0.01 mg/L to <0.005 mg/L

As a result, background limits were lower for these constituents as compared to the previous analysis. However, in all cases for Federal and State confidence intervals, except for lead, which uses the background limit as the GWPS for State confidence intervals, the established MCL and/or CCR Rule Specified levels were higher than the background limits. Therefore, the GWPS were not affected. Summaries of confidence intervals and complete graphical results follow this letter. For both federal and state confidence intervals, no exceedances were noted.

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 Wells

Analysis Run 5/7/2021 12:12 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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

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

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

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

Chromium (mg/L)
YGWC-27I

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

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/10/2021, 3:51 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	3/3/2021	0.69	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	3/2/2021	0.57	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	3/3/2021	2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	3/3/2021	1.2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	3/3/2021	1.8	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	3/3/2021	2.3	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	3/3/2021	0.62	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	7.9	n/a	3/3/2021	16.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	7.9	n/a	3/2/2021	13.2	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	7.9	n/a	3/3/2021	13	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	7.9	n/a	3/3/2021	14.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	7.9	n/a	3/3/2021	18	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	3/3/2021	451	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/10/2021, 3:51 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	3/3/2021	0.69	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	3/2/2021	0.57	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	3/3/2021	2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	3/3/2021	1.2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	3/3/2021	1.8	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	3/3/2021	2.3	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	3/3/2021	0.62	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	3/3/2021	16.1	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	3/2/2021	12.9	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	3/3/2021	25.7	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	3/3/2021	30.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	3/3/2021	30.9	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	3/3/2021	28.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	3/3/2021	9.5	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	7.9	n/a	3/3/2021	16.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	7.9	n/a	3/2/2021	13.2	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	7.9	n/a	3/3/2021	13	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	7.9	n/a	3/3/2021	4	No	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	7.9	n/a	3/3/2021	14.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	7.9	n/a	3/3/2021	18	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	7.9	n/a	3/3/2021	6.7	No	293	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	3/3/2021	0.05J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	3/2/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	3/3/2021	0.058J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	3/3/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	3/3/2021	0.072J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	3/3/2021	0.13	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	3/3/2021	0.056J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.86	3/3/2021	5.93	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.86	3/2/2021	5.38	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.86	3/3/2021	6.43	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.86	3/3/2021	6.35	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.86	3/3/2021	6.51	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.86	3/3/2021	6.61	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.86	3/3/2021	6.27	No	373	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	3/3/2021	89.3	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	3/2/2021	92.7	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	3/3/2021	2.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	3/3/2021	451	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	3/3/2021	8.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	3/3/2021	4.9	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	3/3/2021	26.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	218.8	n/a	3/3/2021	205	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	218.8	n/a	3/2/2021	154	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	218.8	n/a	3/3/2021	173	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	218.8	n/a	3/3/2021	178	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	218.8	n/a	3/3/2021	184	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	218.8	n/a	3/3/2021	217	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	218.8	n/a	3/3/2021	110	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-21I (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.8658	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28I	-0.3155	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.00131	-37	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0	-2	-58	No	16	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-23	-58	No	16	68.75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21 (bg)	0	-18	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-28	-58	No	16	81.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-23	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.03933	-44	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.004704	16	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.03779	17	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	0	-4	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0.006966	2	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.04804	17	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02029	-52	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.001291	-39	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	-0.0002497	-11	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-34	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	-0.0003285	-14	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-15	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.002402	14	43	No	13	7.692	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.02279	-41	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-17	-58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0001974	12	58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	-0.0019	-46	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	5	48	No	14	57.14	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1626	30	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.02735	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-11 (bg)	-0.02869	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21 (bg)	-0.05296	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.2376	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.8658	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27I	0	-5	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28I	-0.3155	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	-0.1389	-15	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.05099	35	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2082	50	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1117	-28	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.2329	13	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.1751	26	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.1099	36	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1272	29	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.09469	17	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-11 (bg)	-0.2947	-23	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21 (bg)	0.1728	11	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.08892	-28	-58	No	16	12.5	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results Page 2

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	YGWA-3D (bg)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6094	45	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-27S	-1.986	-54	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.1322	51	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.2007	-54	-58	No	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1939	-48	-58	No	16	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	24	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2852	-25	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.1751	39	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:01 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	n/a	315	n/a	n/a	86.03	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	363	n/a	n/a	77.96	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	363	n/a	n/a	3.03	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	81.27	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	95.68	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	n/a	315	n/a	n/a	77.46	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	360	n/a	n/a	69.72	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	342	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	362	n/a	n/a	68.51	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	317	n/a	n/a	82.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	342	n/a	n/a	27.49	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	278	n/a	n/a	93.17	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	306	n/a	n/a	59.8	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	345	n/a	n/a	91.59	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	298	n/a	n/a	96.64	n/a	n/a	NaN	NP Inter(NDs)

YATES ASH POND 2 GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.0013	0.015	0.0013
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	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*

Federal Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:14 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	15	0.002674	0.0008604	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	15	0.00282	0.0004754	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	15	0.002822	0.0006894	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	19	0.003181	0.002196	57.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No	19	0.003185	0.002188	57.89	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06639	0.06267	2	No	19	0.06453	0.003182	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02896	0.02661	2	No	19	0.02778	0.002008	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	19	0.06902	0.007204	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1047	0.09313	2	No	19	0.09891	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09012	0.08399	2	No	19	0.08706	0.005237	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.221	0.196	2	No	19	0.2026	0.03864	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0781	0.057	2	No	19	0.07414	0.03394	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.00011	0.004	No	17	0.0001932	0.0001222	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00014	0.004	No	17	0.0002371	0.0001321	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.000066	0.004	No	17	0.0004745	0.0001053	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	17	0.0002418	0.0001791	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	17	0.0004988	0.0000485	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002194	0.0001256	0.005	No	17	0.0002553	0.0001322	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	17	0.003202	0.002205	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002486	0.001092	0.1	No	17	0.002517	0.00169	17.65	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	17	0.004668	0.00319	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	17	0.004201	0.00178	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	17	0.004211	0.001757	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	17	0.004735	0.001091	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002781	0.001865	0.035	No	19	0.002363	0.0008532	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01683	0.003275	0.035	No	19	0.01862	0.02682	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	19	0.002474	0.0006497	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	19	0.004759	0.001051	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	19	0.001424	0.001268	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No	19	0.003845	0.001988	73.68	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.062	0.4927	6.92	No	18	0.8202	0.5153	5.566	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8845	0.5432	6.92	No	19	0.7138	0.2914	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.054	2.769	6.92	No	19	3.412	1.098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.078	0.6625	6.92	No	19	0.8703	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	19	0.6337	0.3534	5.263	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9055	0.4908	6.92	No	19	0.6981	0.3541	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.148	0.7362	6.92	No	19	0.9422	0.3517	5.263	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	20	0.0825	0.02103	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	20	0.1332	0.09928	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.07	4	No	20	0.0921	0.02603	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2052	0.1014	4	No	20	0.1634	0.1047	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	20	0.1269	0.08215	25	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2651	0.1498	4	No	20	0.2075	0.1015	10	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09525	0.05897	4	No	20	0.0882	0.03115	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	15	0.000874	0.0003325	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.015	No	15	0.00069	0.0004539	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.015	No	15	0.0007625	0.0003766	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.015	No	15	0.0006876	0.0004573	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	No	15	0.0008214	0.0003702	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007101	0.006541	0.04	No	19	0.006821	0.0004779	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01037	0.008039	0.04	No	19	0.009205	0.001991	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.00081	0.04	No	19	0.02846	0.006697	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007044	0.00663	0.04	No	19	0.006837	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	19	0.0287	0.005667	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0074	0.0052	0.04	No	19	0.007226	0.005581	5.263	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	19	0.005942	0.004398	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	19	0.005411	0.004474	47.37	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	19	0.008046	0.003887	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	19	0.009517	0.002104	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	17	0.002476	0.001067	11.76	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	17	0.004076	0.001731	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:16 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	15	0.002674	0.0008604	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	15	0.00282	0.0004754	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	15	0.002822	0.0006894	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	19	0.003181	0.002196	57.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No	19	0.003185	0.002188	57.89	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06639	0.06267	2	No	19	0.06453	0.003182	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02896	0.02661	2	No	19	0.02778	0.002008	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	19	0.06902	0.007204	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1047	0.09313	2	No	19	0.09891	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09012	0.08399	2	No	19	0.08706	0.005237	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.221	0.196	2	No	19	0.2026	0.03864	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0781	0.057	2	No	19	0.07414	0.03394	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.00011	0.004	No	17	0.0001932	0.0001222	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00014	0.004	No	17	0.0002371	0.0001321	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.000066	0.004	No	17	0.0004745	0.0001053	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	17	0.0002418	0.0001791	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	17	0.0004988	0.0000485	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002194	0.0001256	0.005	No	17	0.0002553	0.0001322	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	17	0.003202	0.002205	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002486	0.001092	0.1	No	17	0.002517	0.00169	17.65	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	17	0.004668	0.00319	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	17	0.004201	0.00178	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	17	0.004211	0.001757	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	17	0.004735	0.001091	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002781	0.001865	0.035	No	19	0.002363	0.0008532	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01683	0.003275	0.035	No	19	0.01862	0.02682	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	19	0.002474	0.0006497	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	19	0.004759	0.001051	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	19	0.001424	0.001268	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No	19	0.003845	0.001988	73.68	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.062	0.4927	6.92	No	18	0.8202	0.5153	5.566	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8845	0.5432	6.92	No	19	0.7138	0.2914	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.054	2.769	6.92	No	19	3.412	1.098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.078	0.6625	6.92	No	19	0.8703	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	19	0.6337	0.3534	5.263	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9055	0.4908	6.92	No	19	0.6981	0.3541	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.148	0.7362	6.92	No	19	0.9422	0.3517	5.263	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	20	0.0825	0.02103	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	20	0.1332	0.09928	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.07	4	No	20	0.0921	0.02603	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2052	0.1014	4	No	20	0.1634	0.1047	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	20	0.1269	0.08215	25	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2651	0.1498	4	No	20	0.2075	0.1015	10	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09525	0.05897	4	No	20	0.0882	0.03115	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.0013	No	15	0.000874	0.0003325	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.0013	No	15	0.00069	0.0004539	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.0013	No	15	0.0007625	0.0003766	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.0013	No	15	0.0006876	0.0004573	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.0013	No	15	0.0008214	0.0003702	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007101	0.006541	0.03	No	19	0.006821	0.0004779	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01037	0.008039	0.03	No	19	0.009205	0.001991	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.00081	0.03	No	19	0.02846	0.006697	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007044	0.00663	0.03	No	19	0.006837	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.03	No	19	0.0287	0.005667	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0074	0.0052	0.03	No	19	0.007226	0.005581	5.263	None	No	0.01	NP (normality)

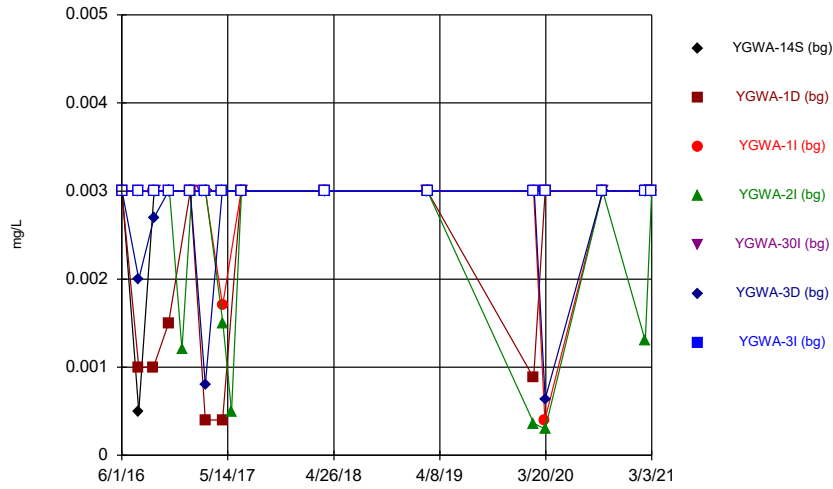
State Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.014	No	19	0.005942	0.004398	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.014	No	19	0.005411	0.004474	47.37	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.014	No	19	0.008046	0.003887	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.014	No	19	0.009517	0.002104	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	17	0.002476	0.001067	11.76	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	17	0.004076	0.001731	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)

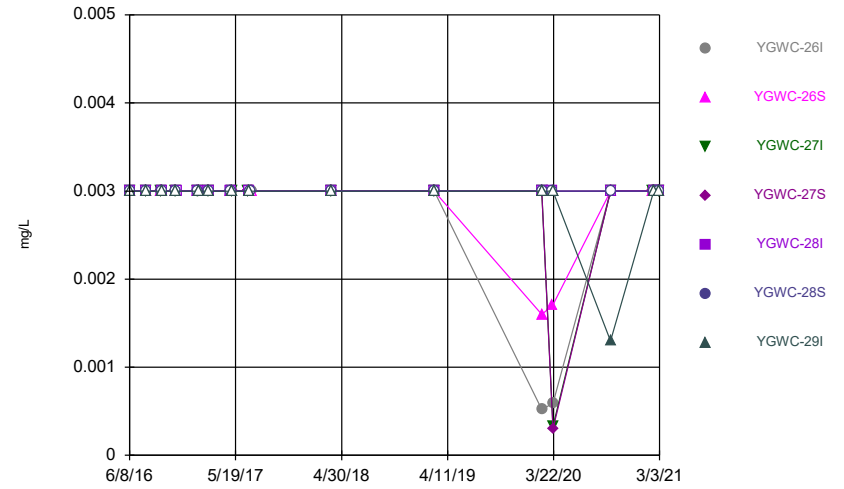
FIGURE A.

Time Series



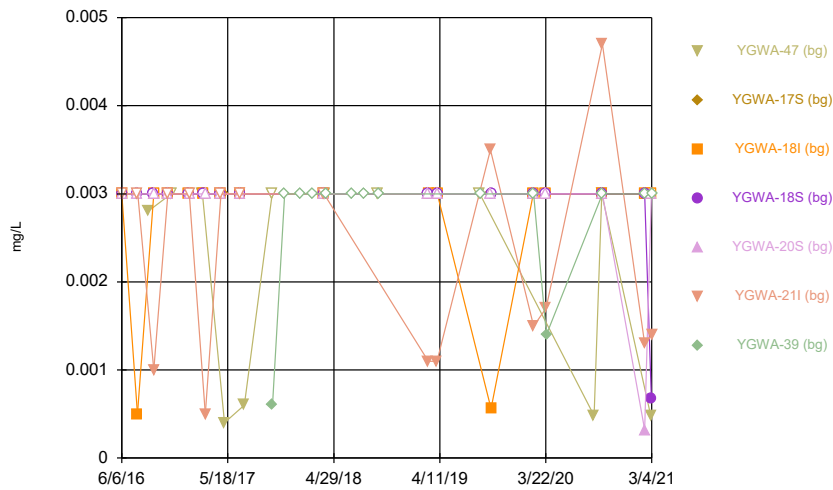
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Time Series



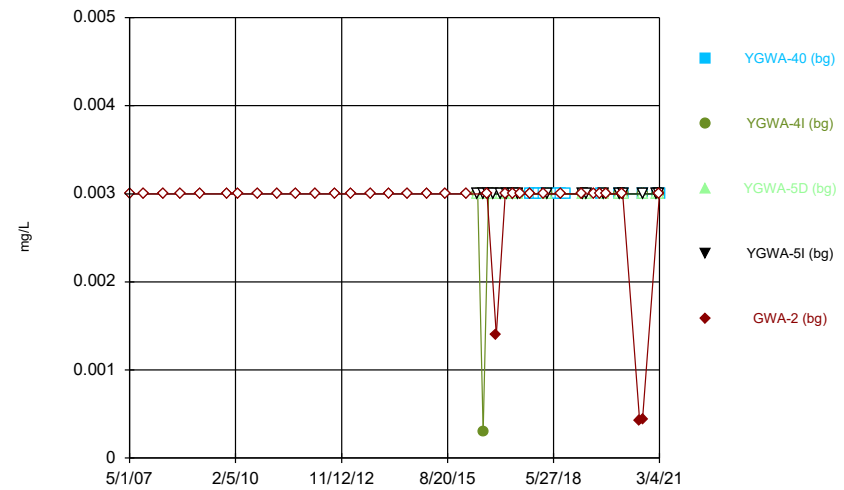
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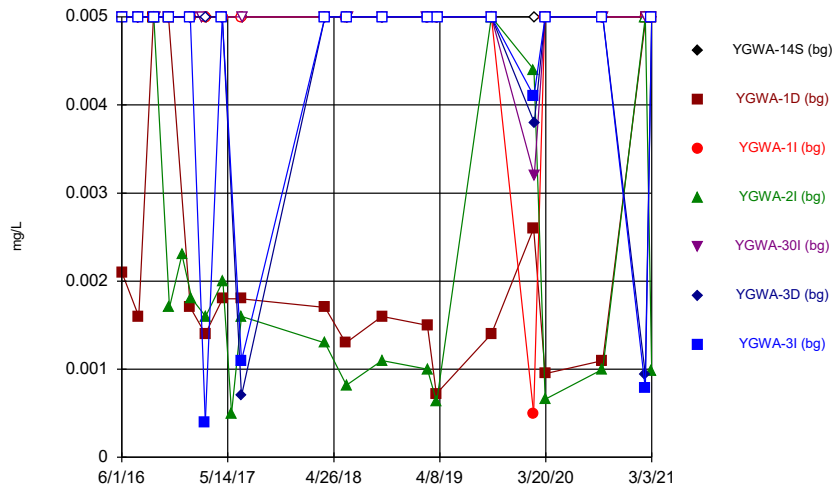
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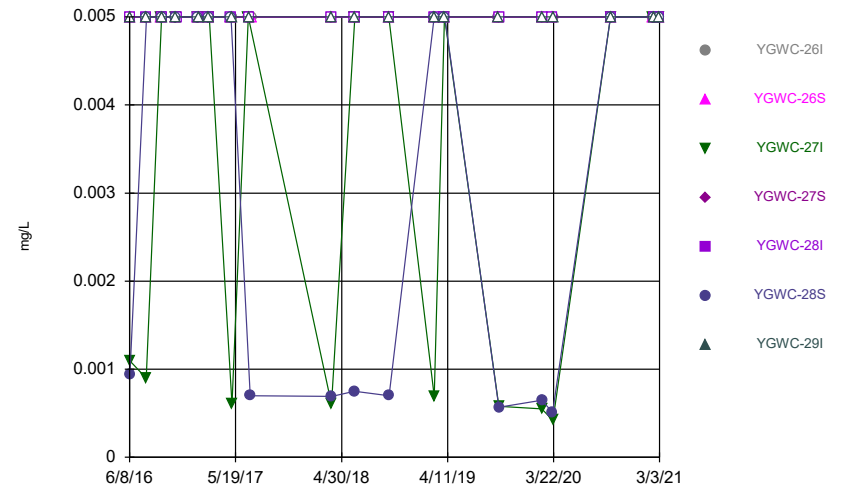
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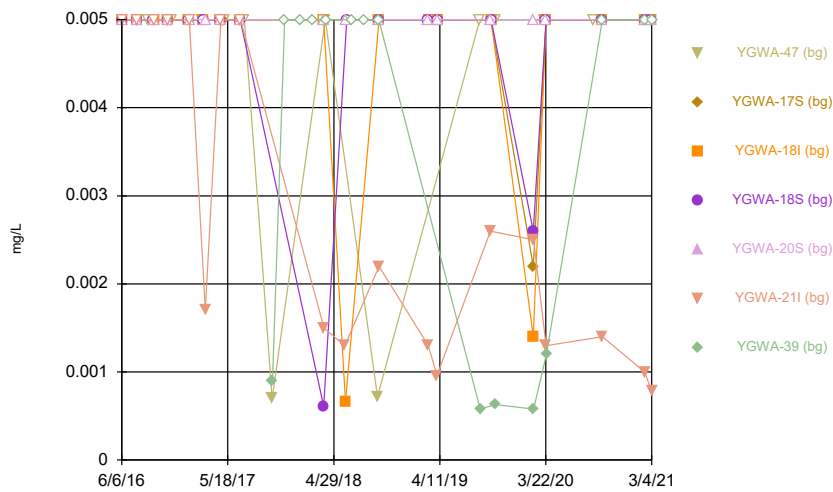
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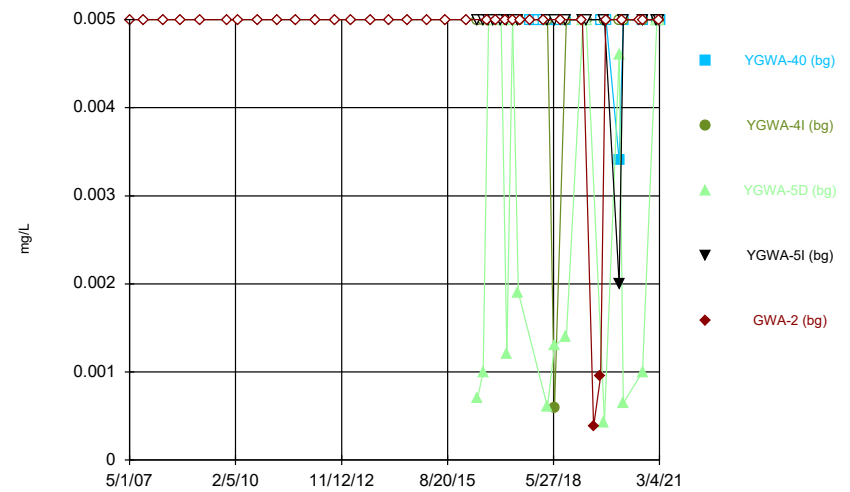
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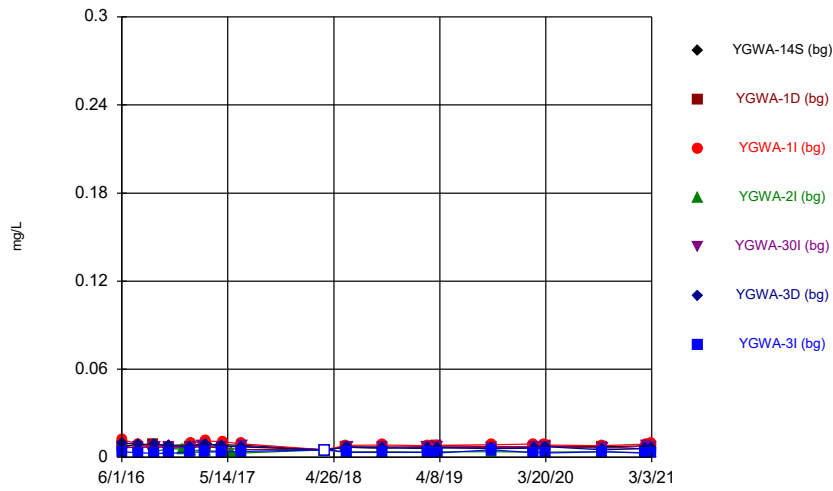
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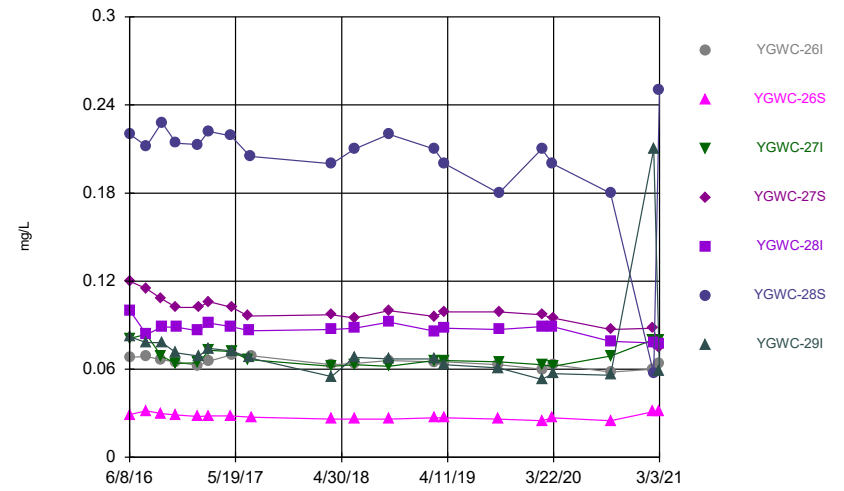
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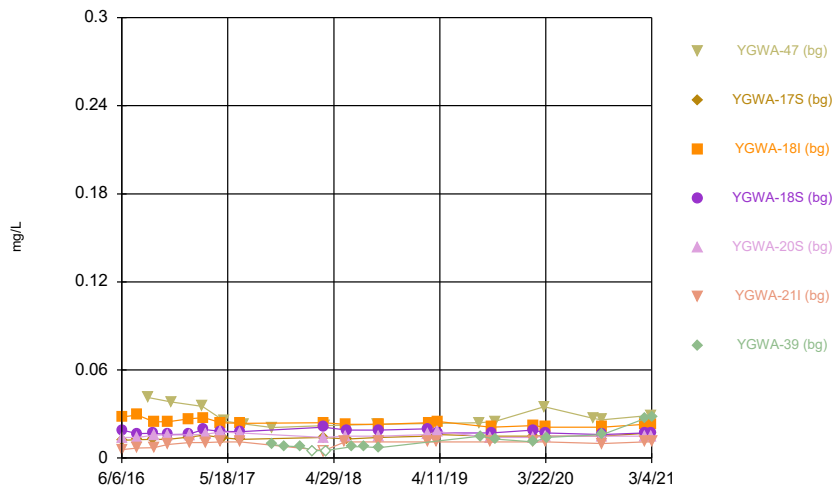
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Time Series



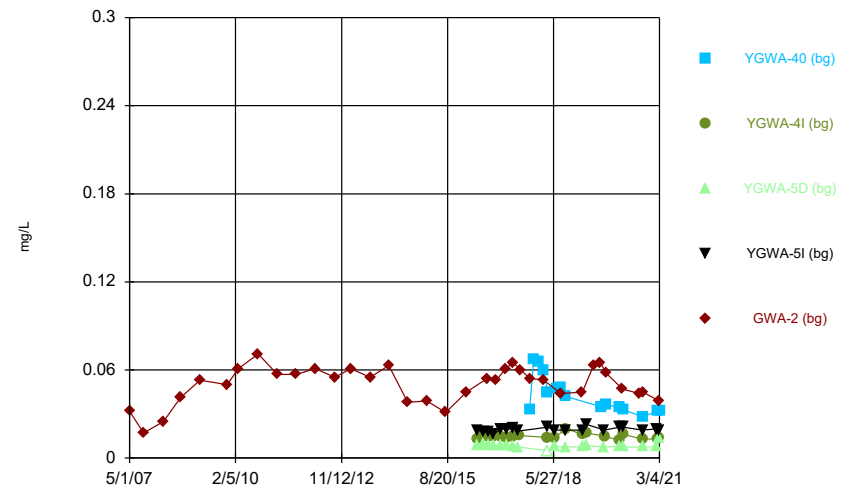
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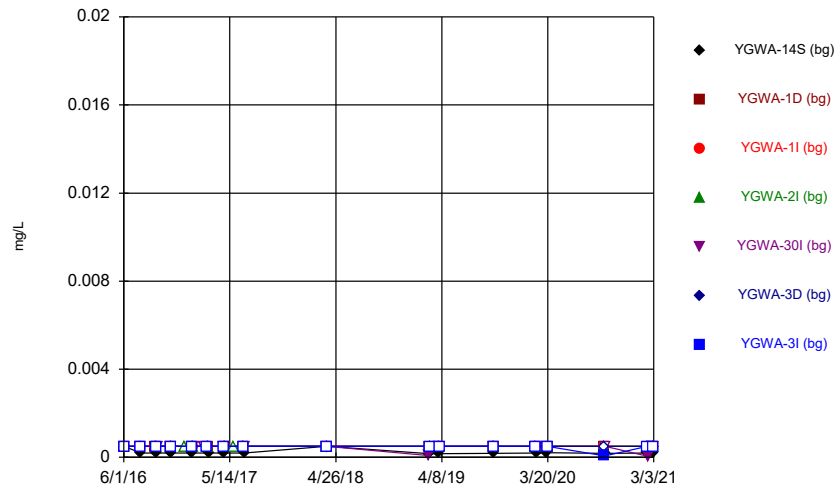
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Time Series



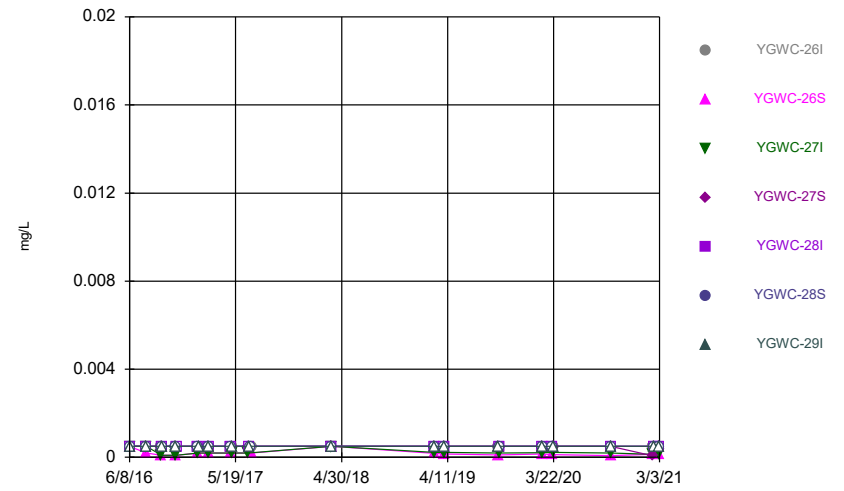
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Time Series



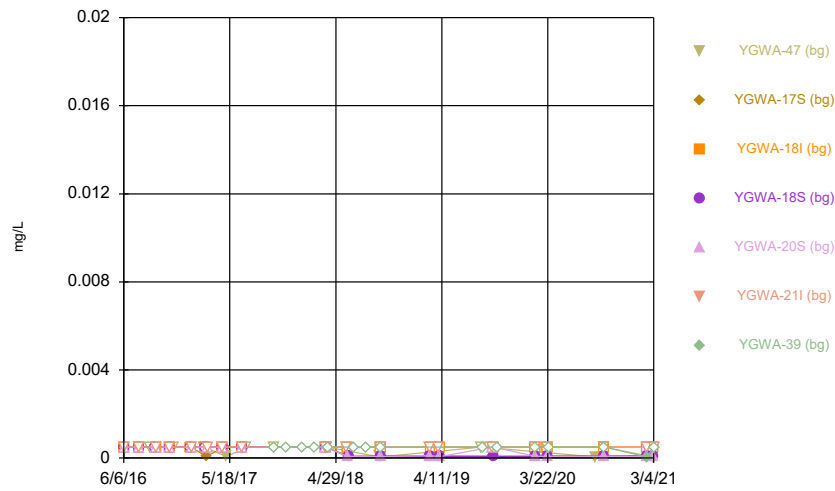
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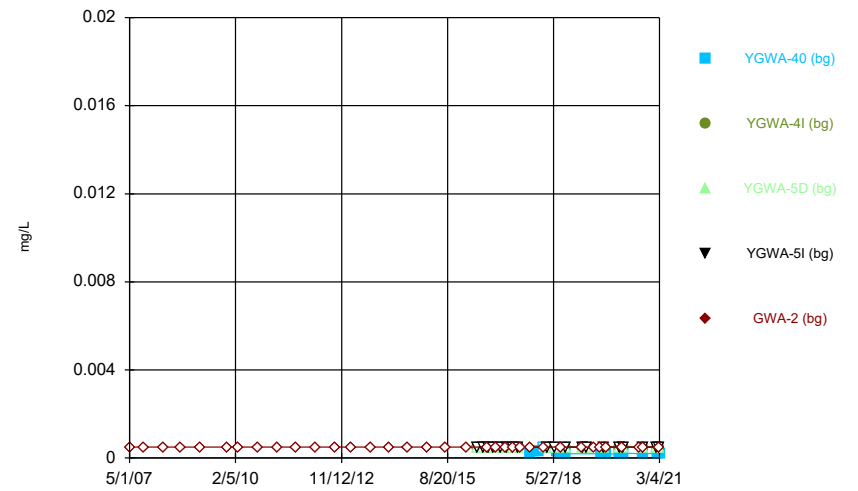
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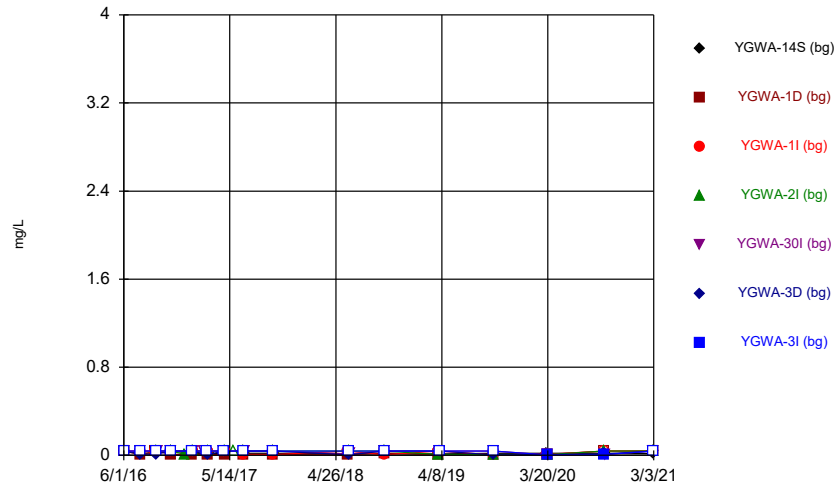
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Time Series



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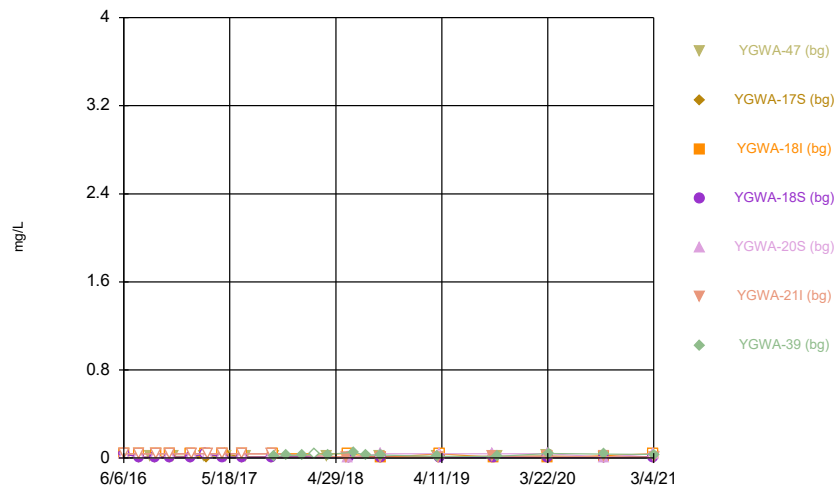
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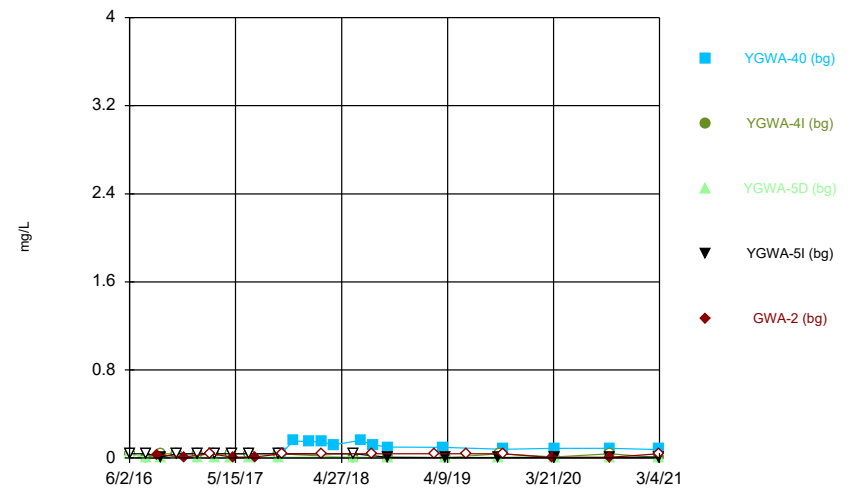
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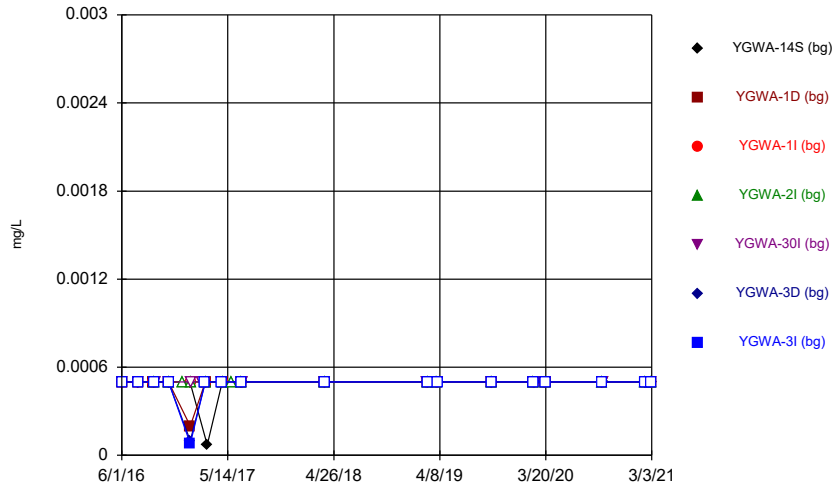
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Time Series



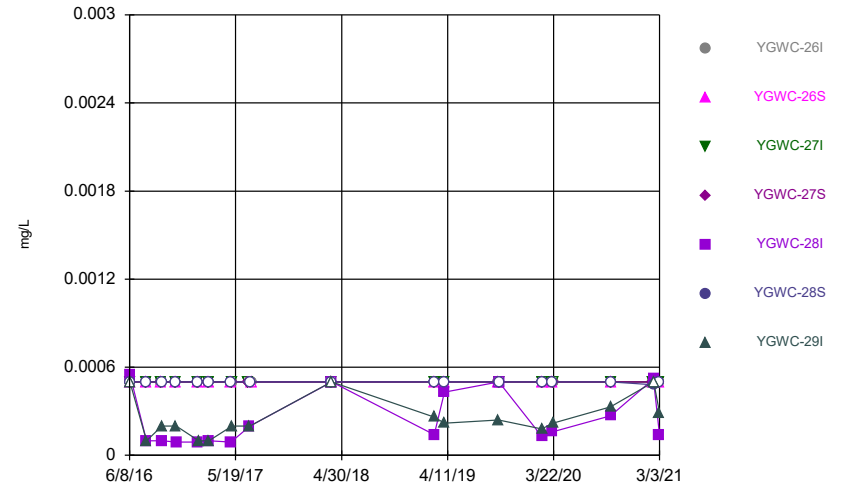
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Time Series



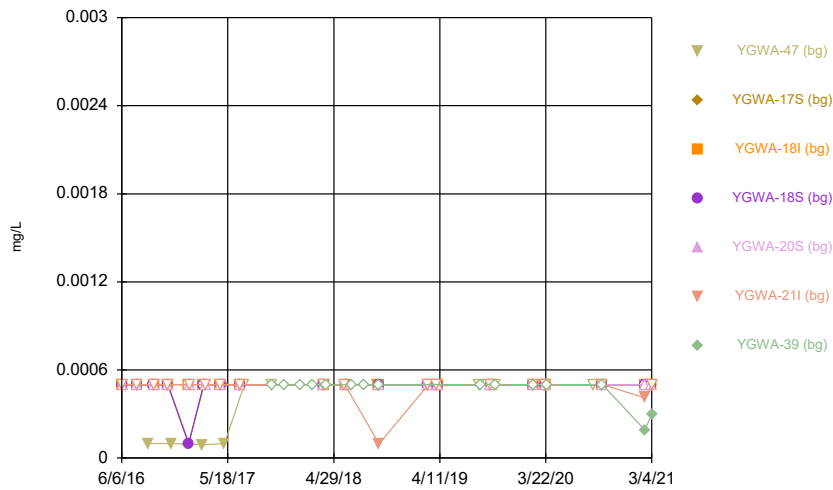
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Time Series



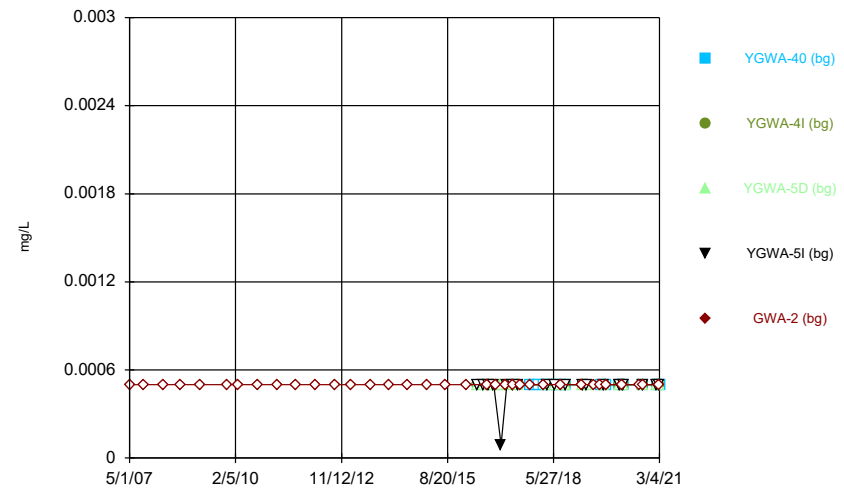
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Time Series



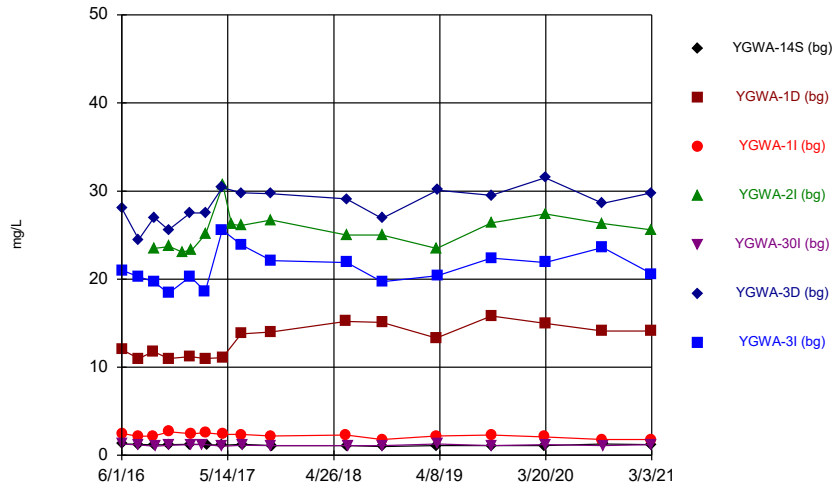
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Time Series



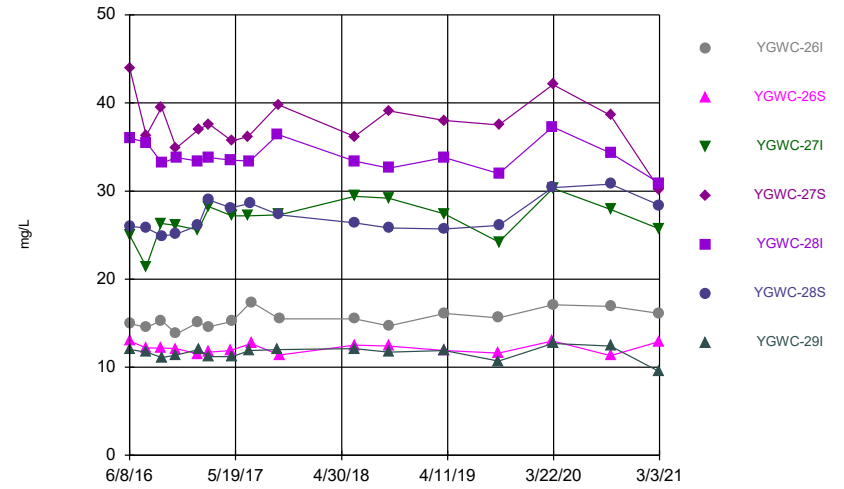
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



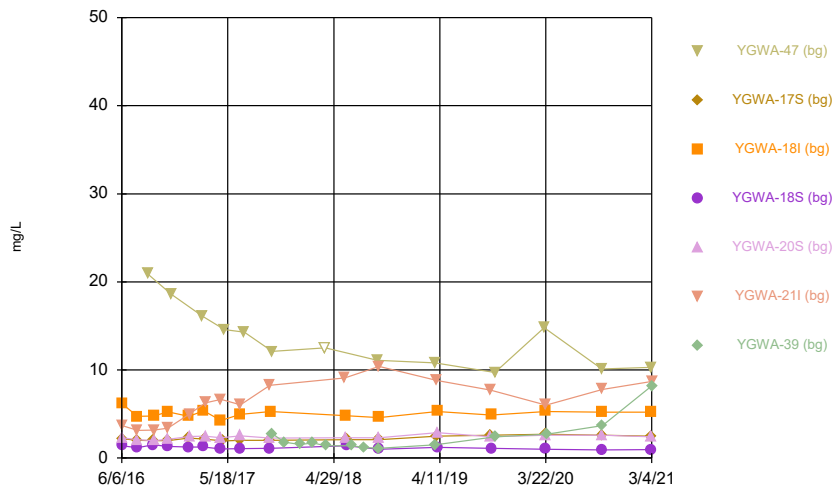
Constituent: Calcium Analysis Run 5/10/2021 3:41 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



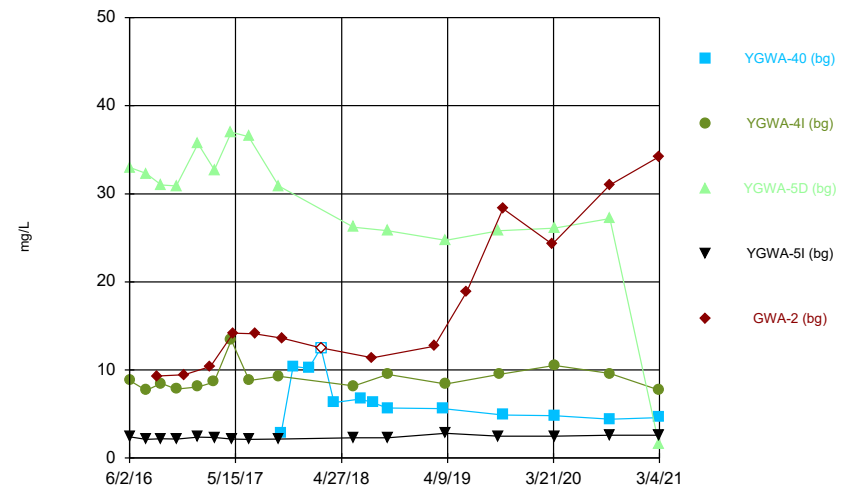
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



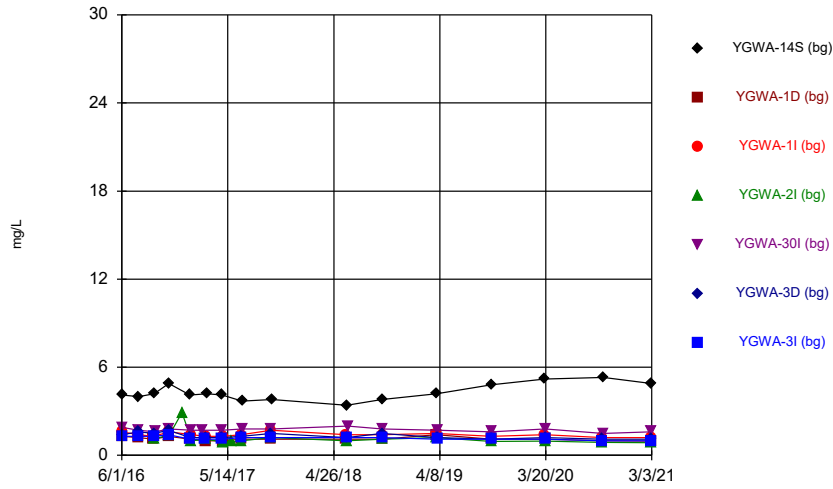
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



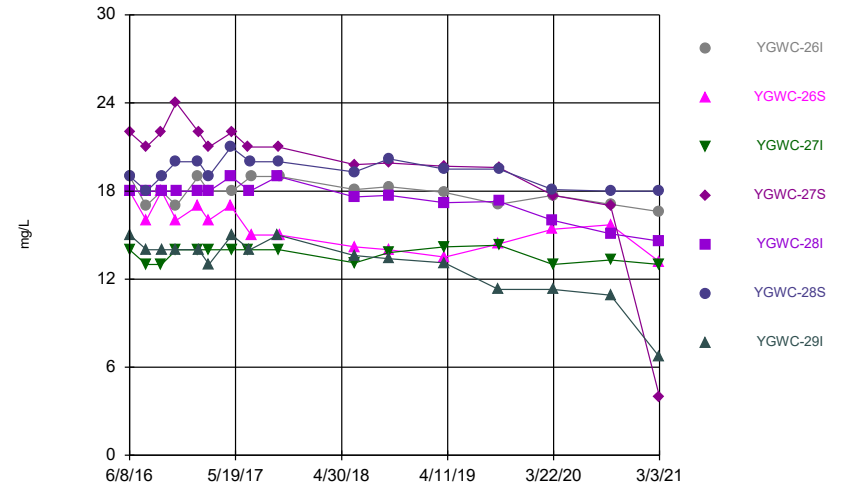
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



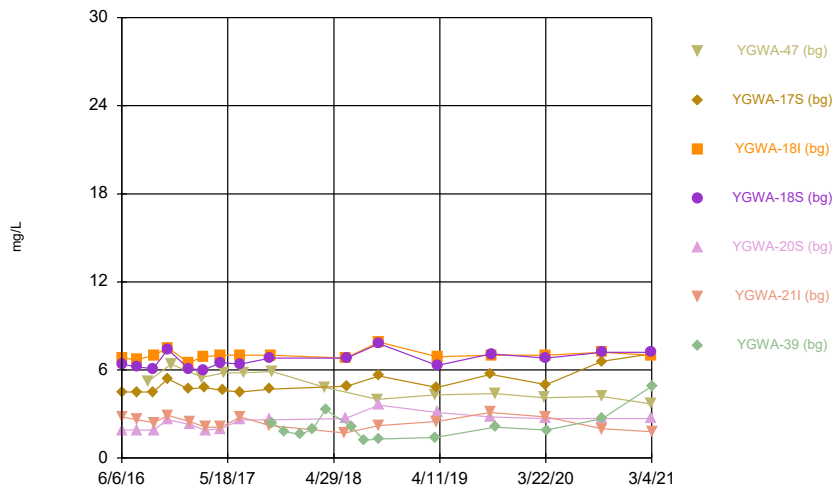
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



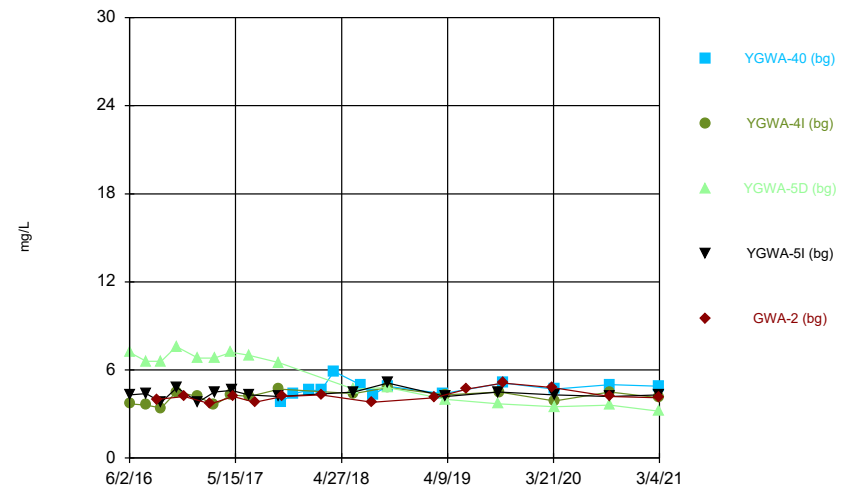
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



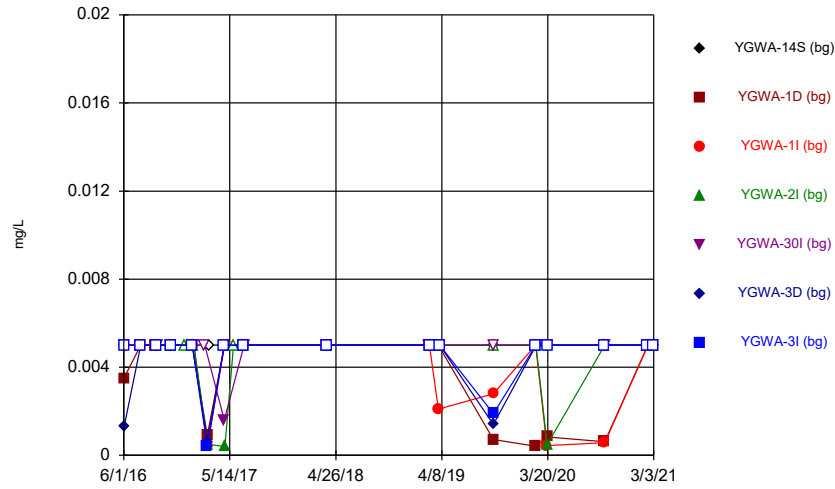
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Time Series



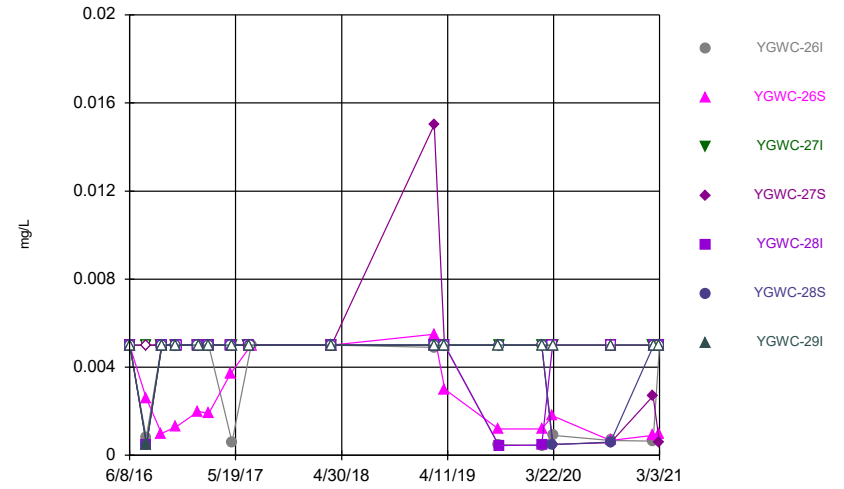
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Time Series



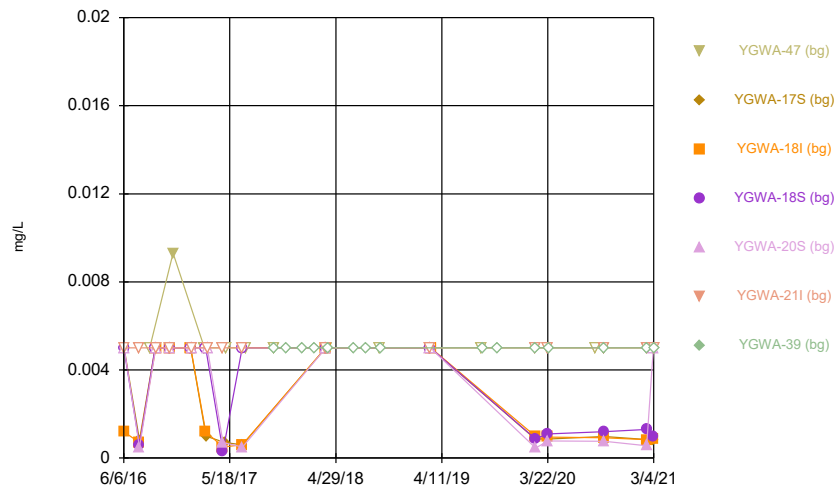
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



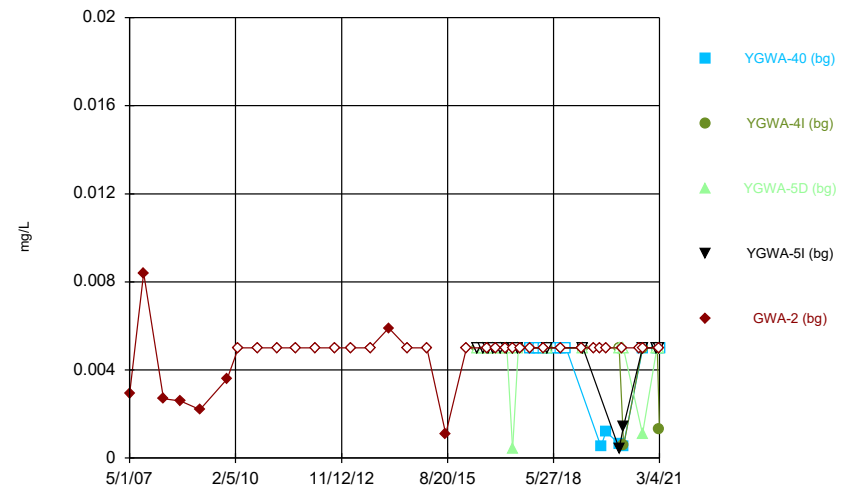
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



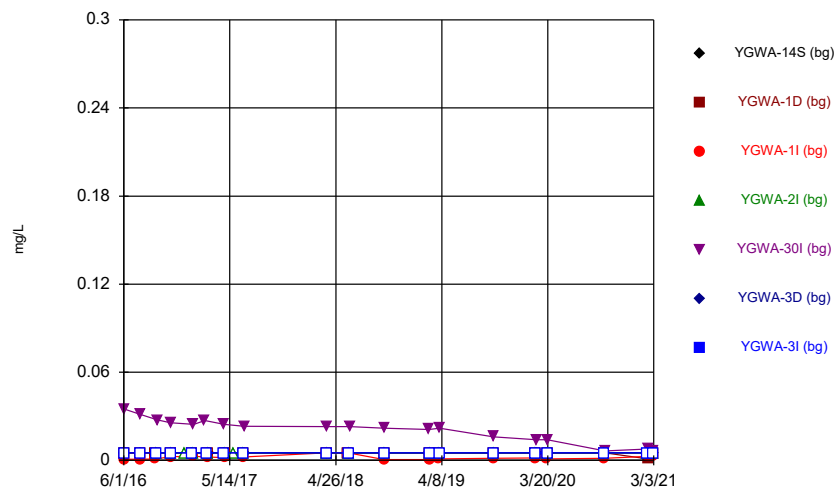
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Time Series



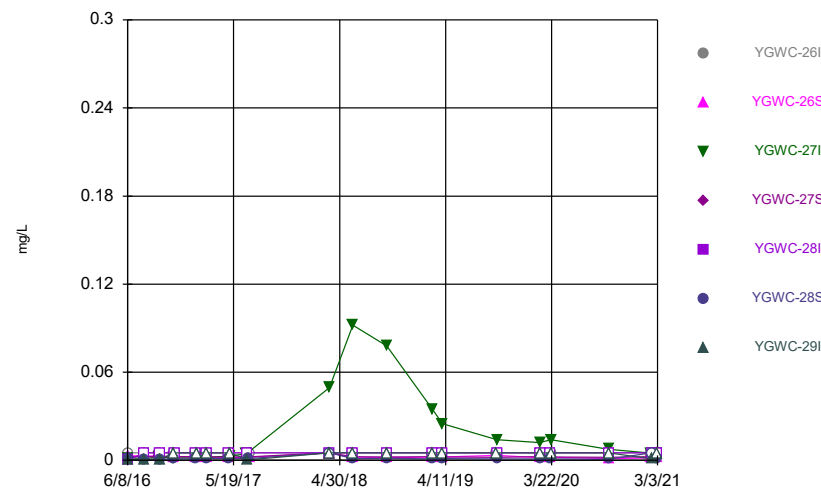
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



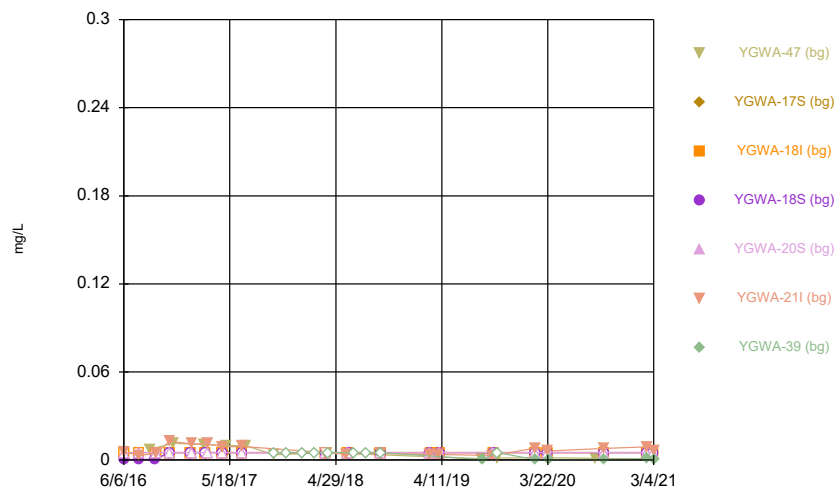
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



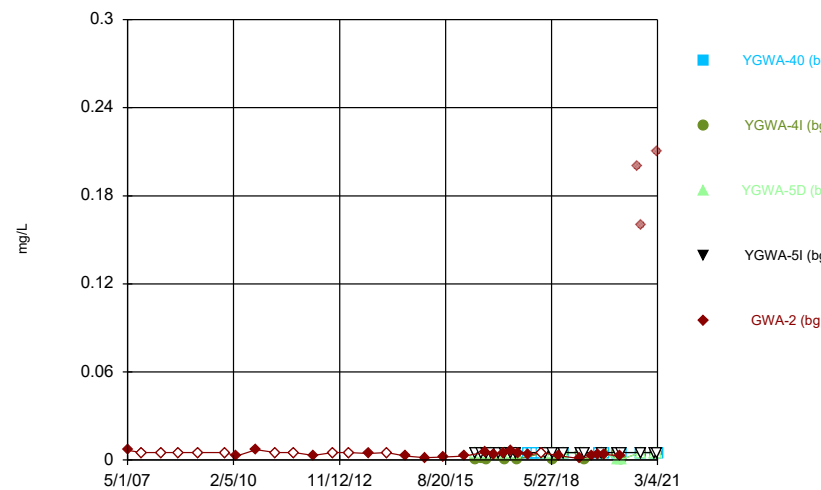
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



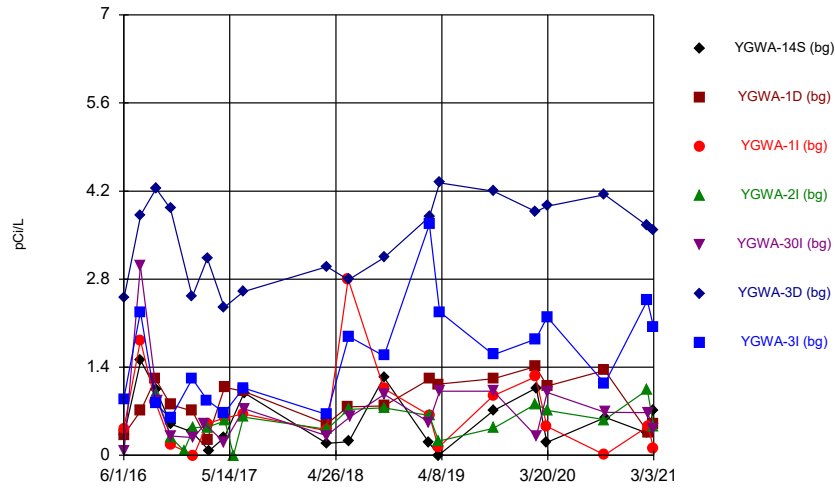
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



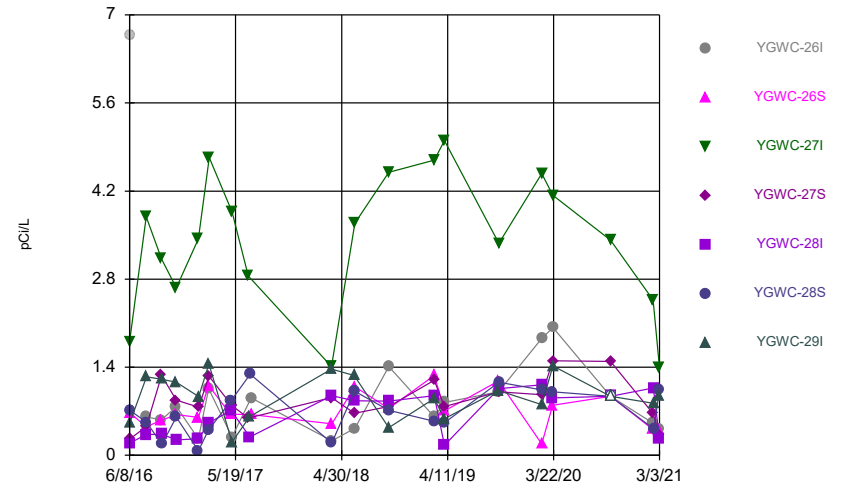
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



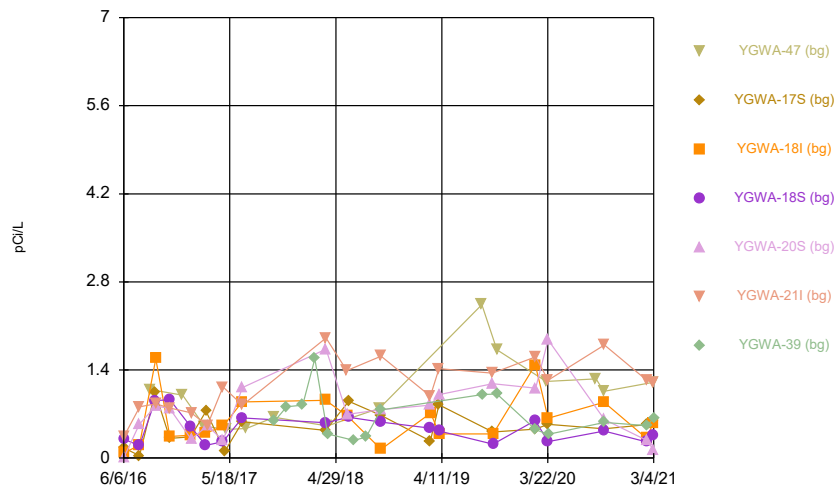
Constituent: Combined Radium 226 + 228 Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



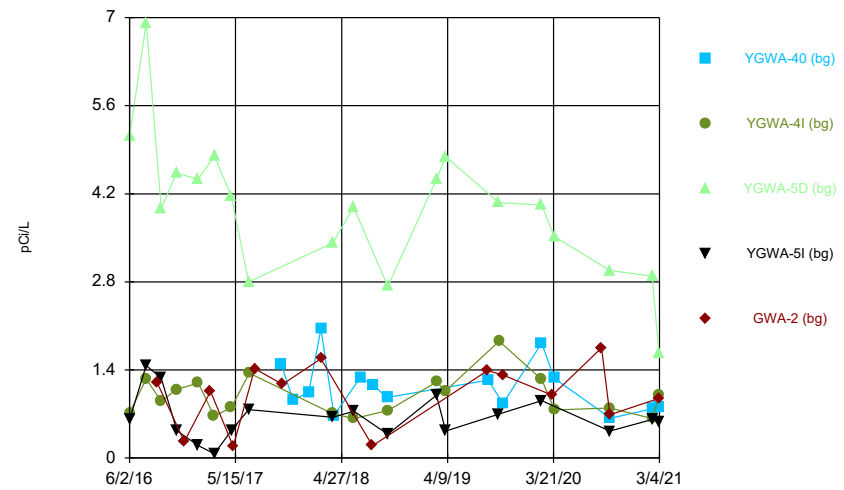
Constituent: Combined Radium 226 + 228 Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



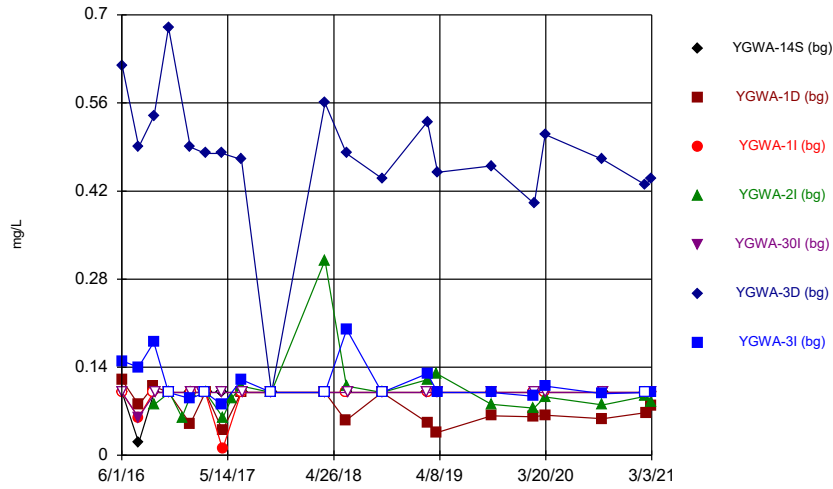
Constituent: Combined Radium 226 + 228 Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



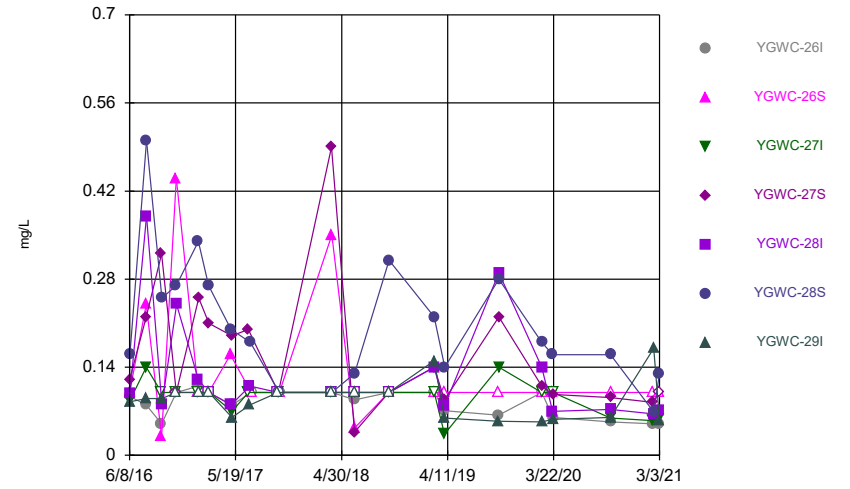
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



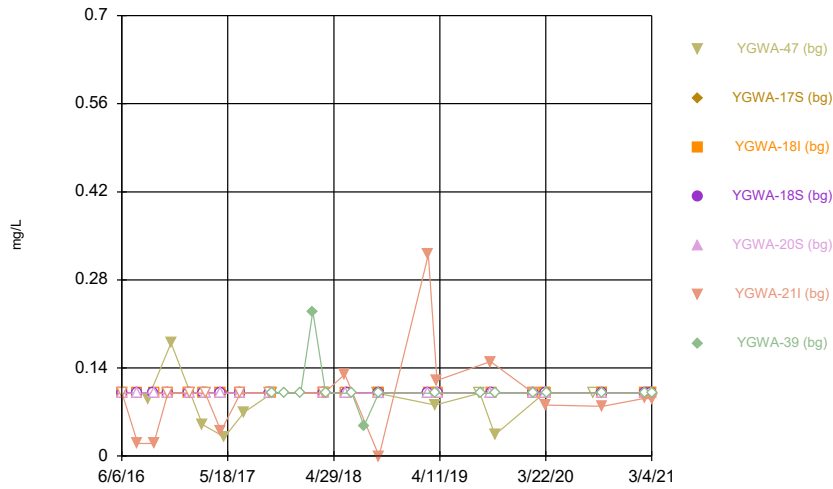
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



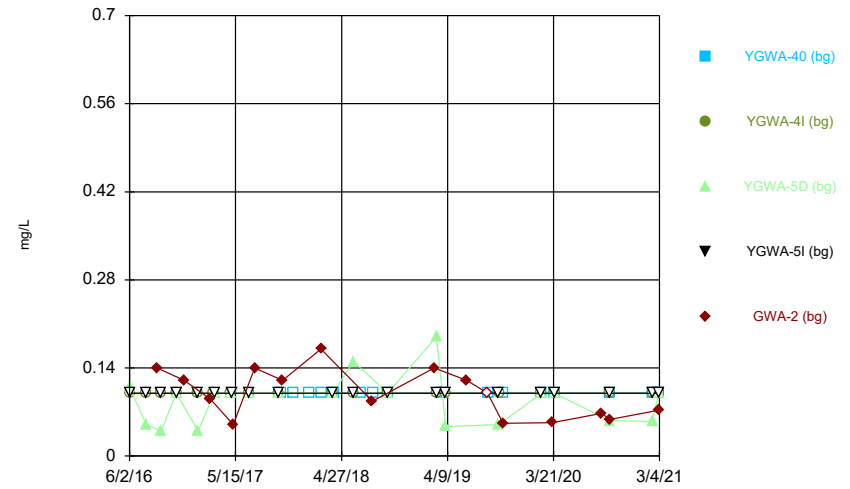
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



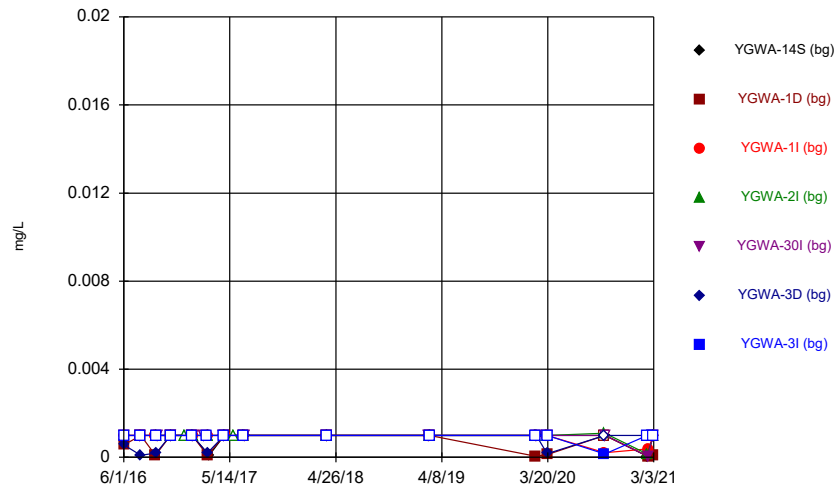
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Time Series



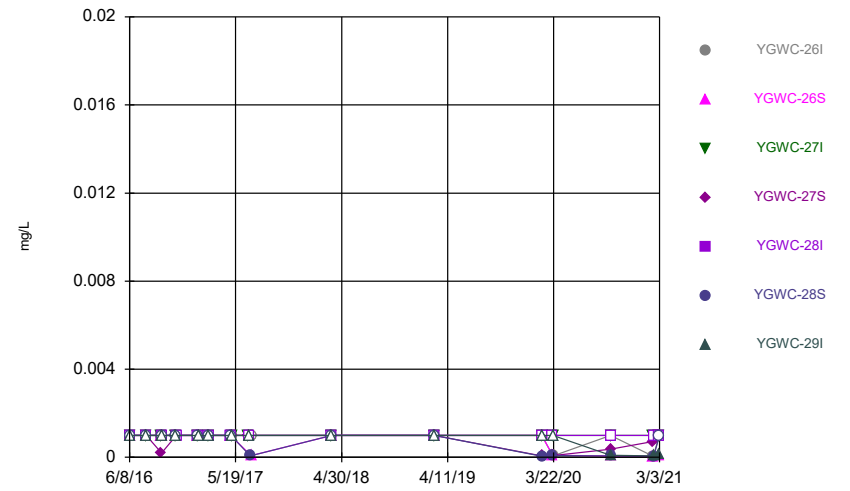
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Time Series



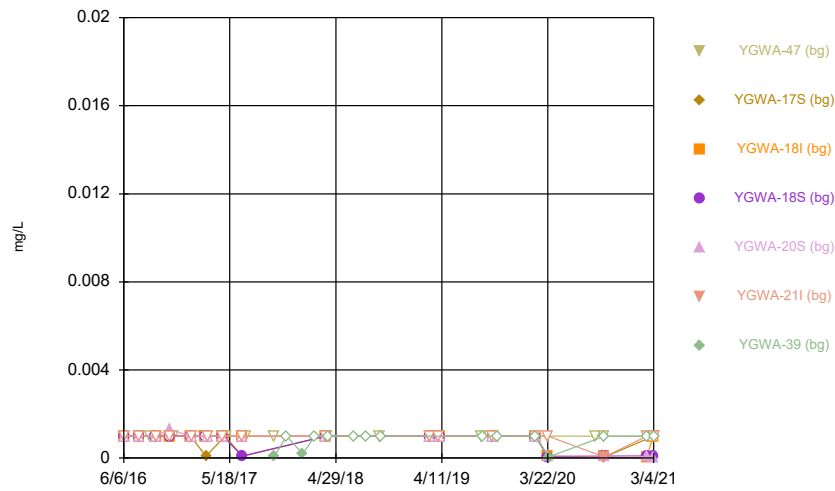
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Time Series



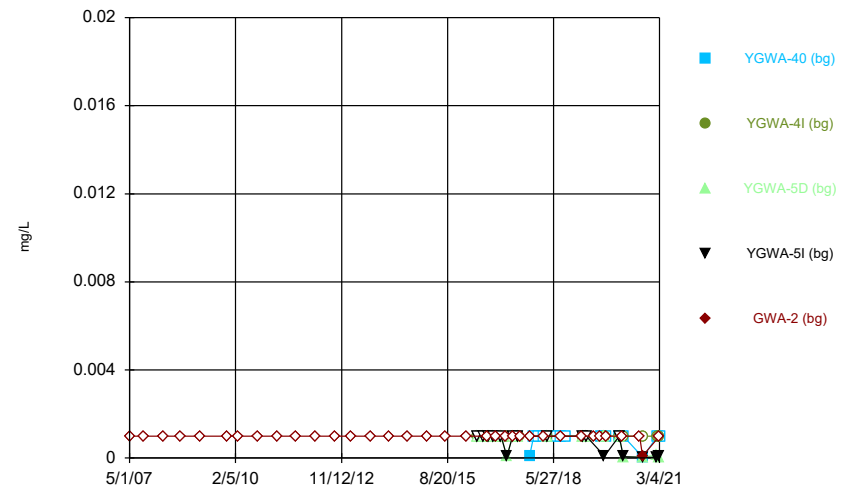
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Time Series



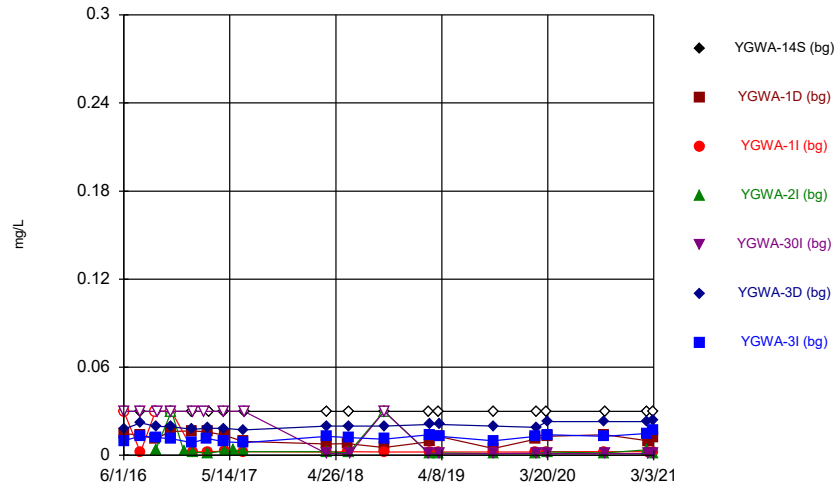
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Time Series



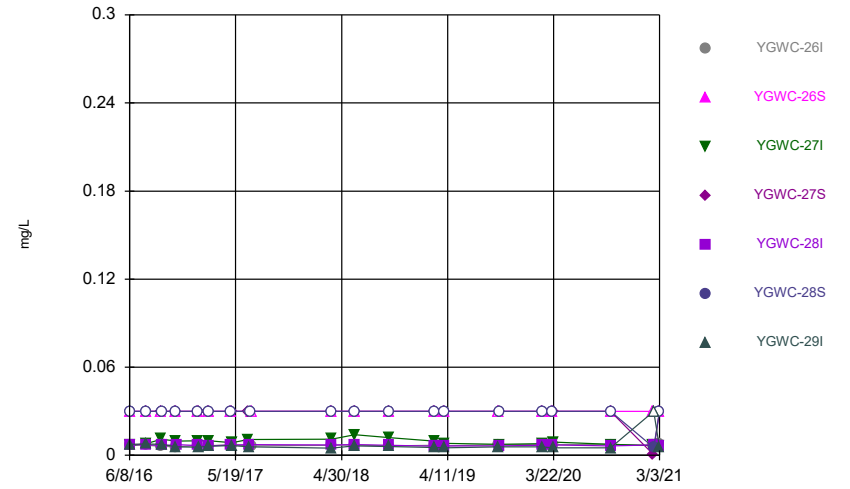
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Time Series



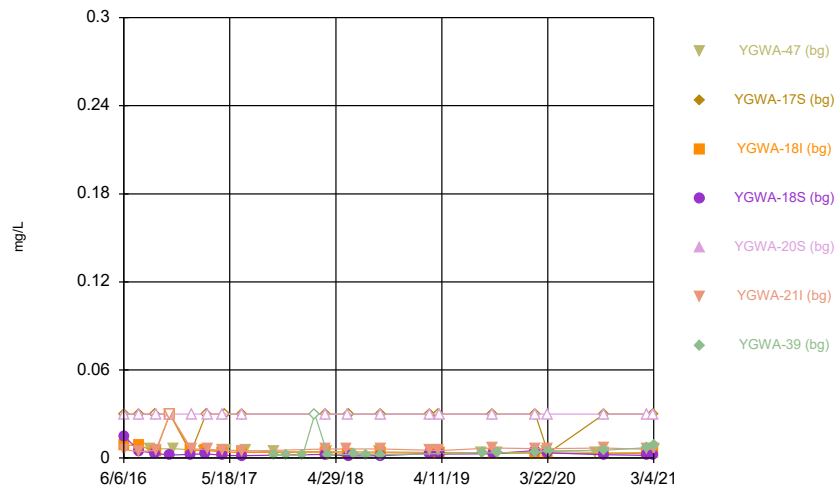
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Time Series



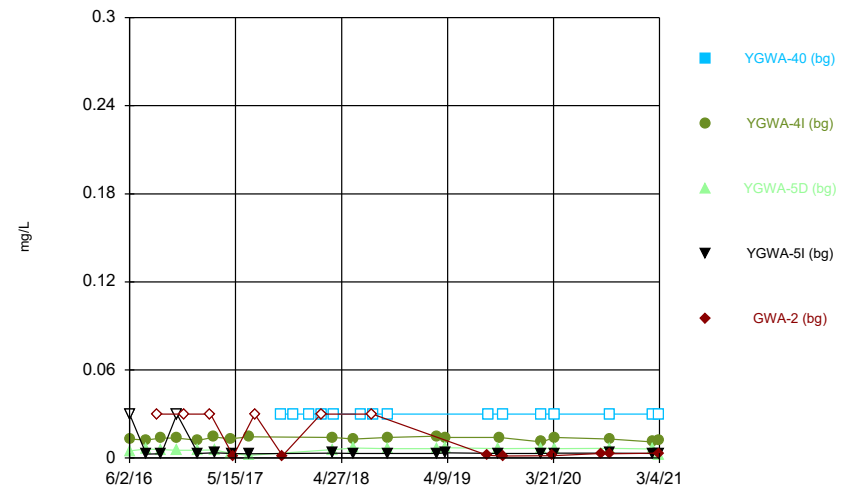
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



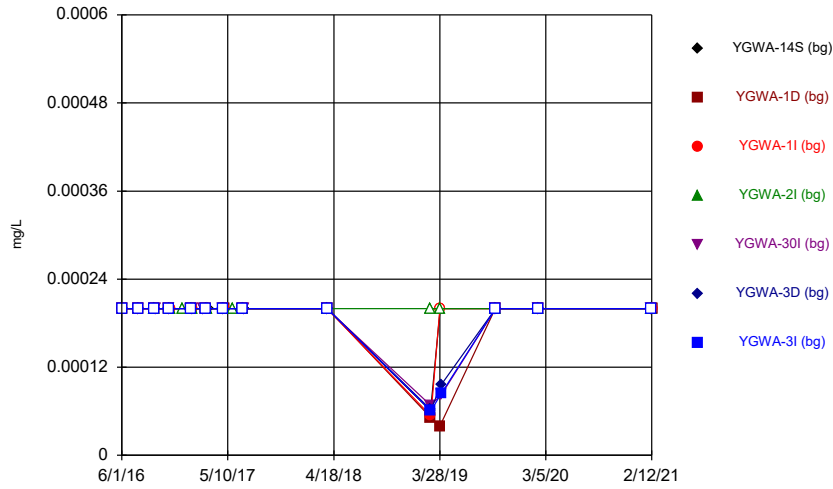
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Time Series



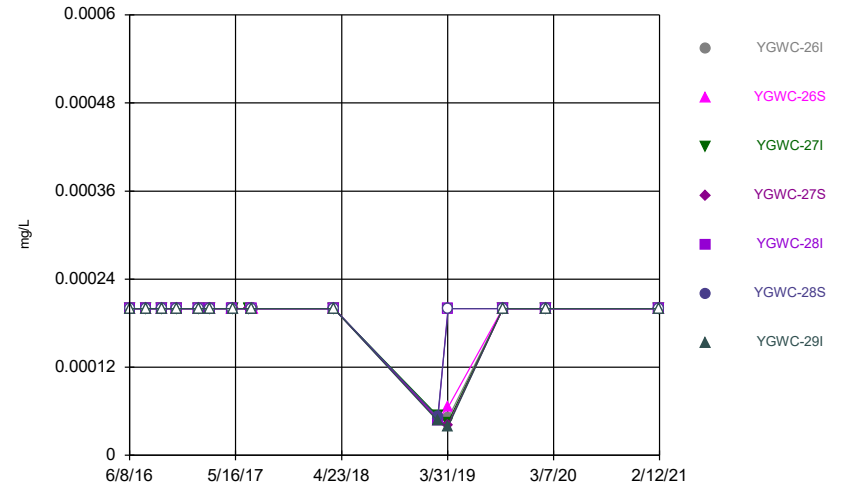
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



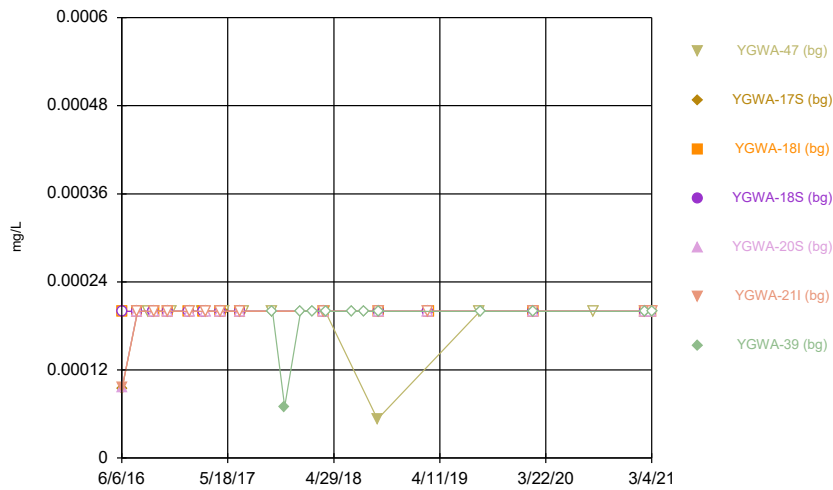
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



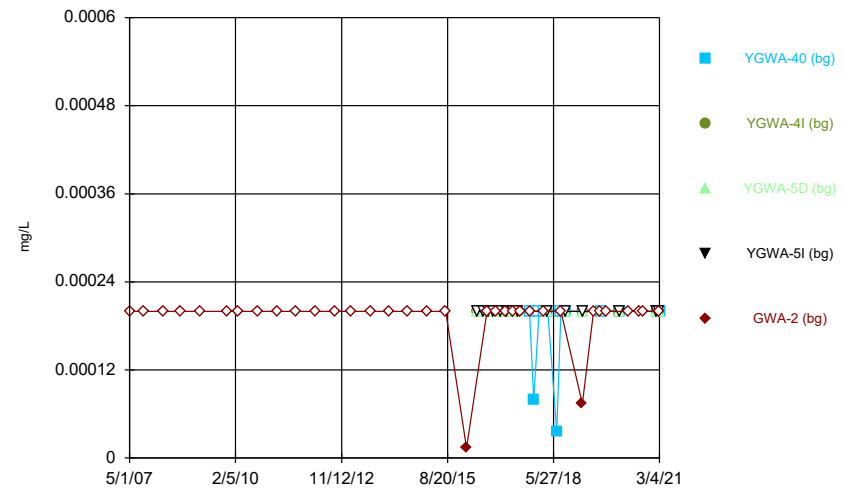
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



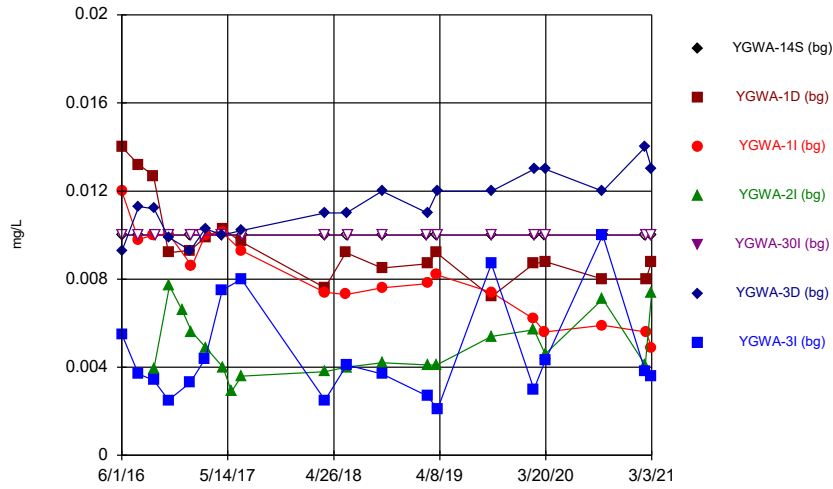
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



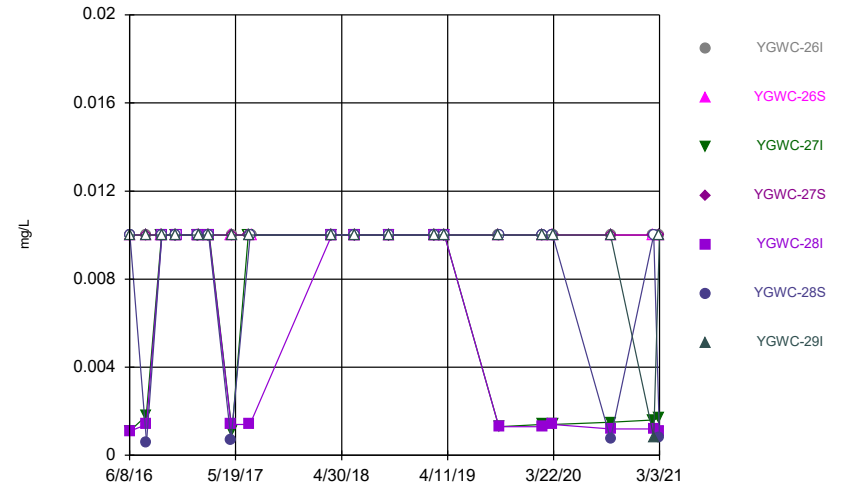
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



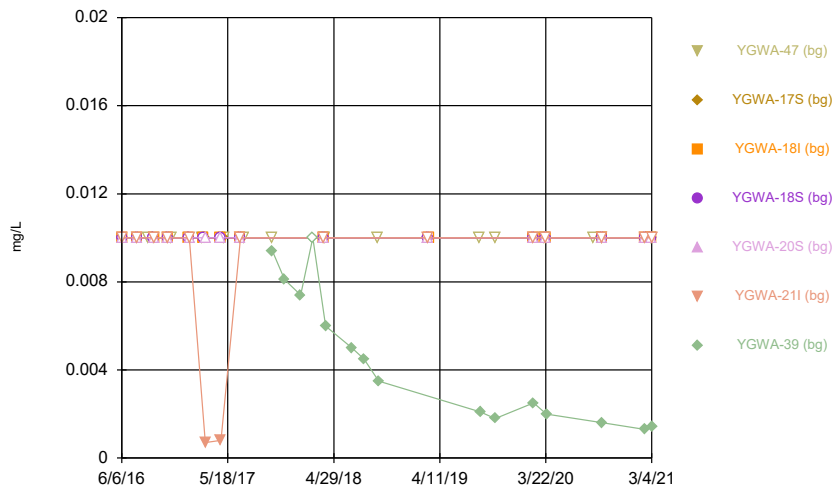
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



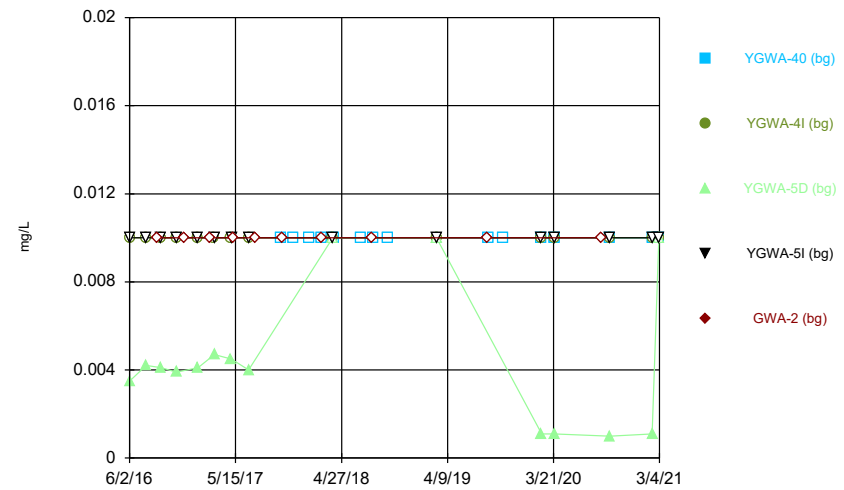
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



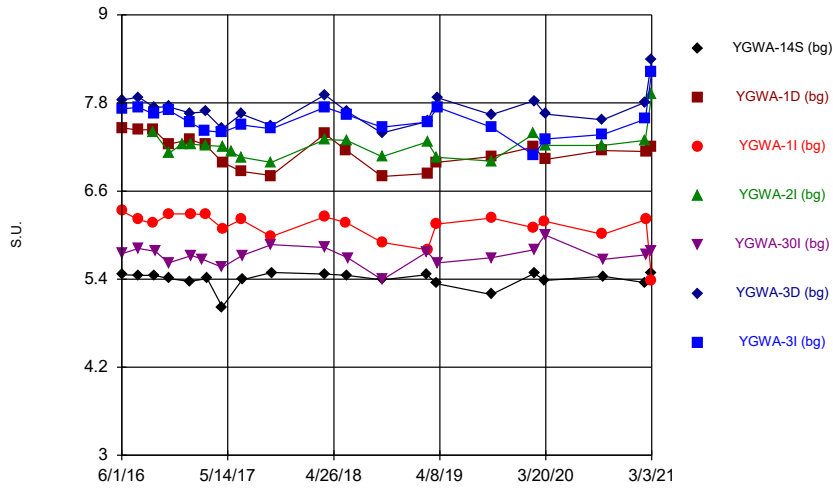
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



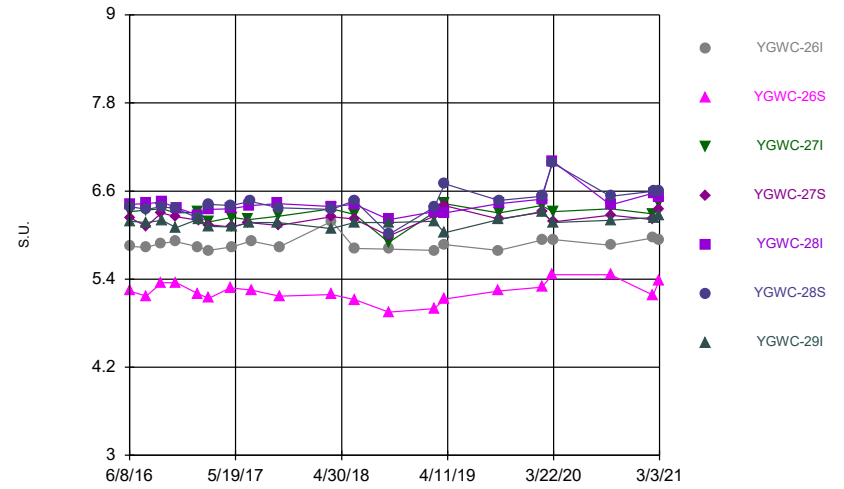
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



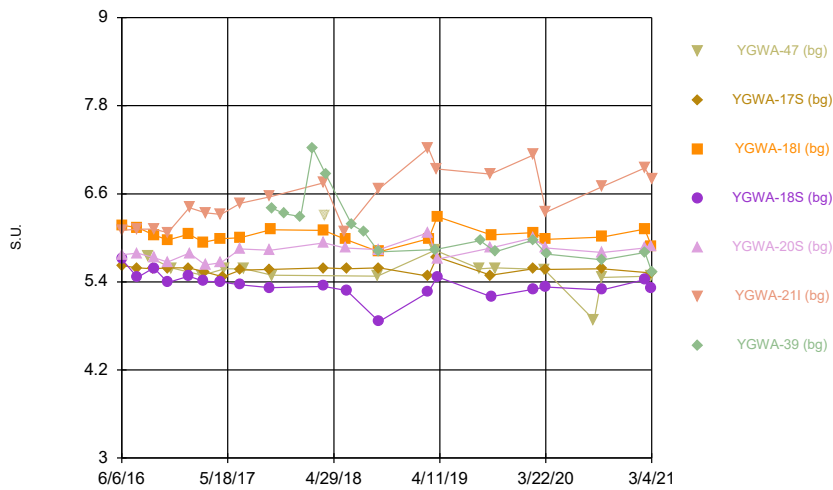
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



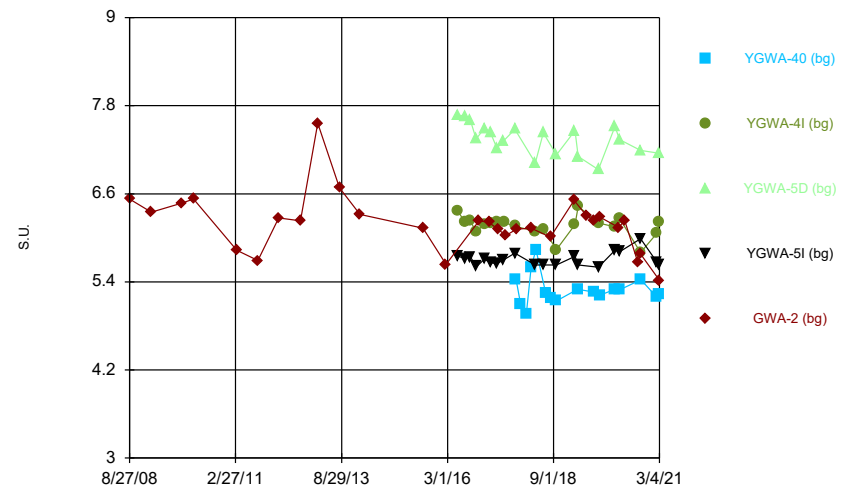
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



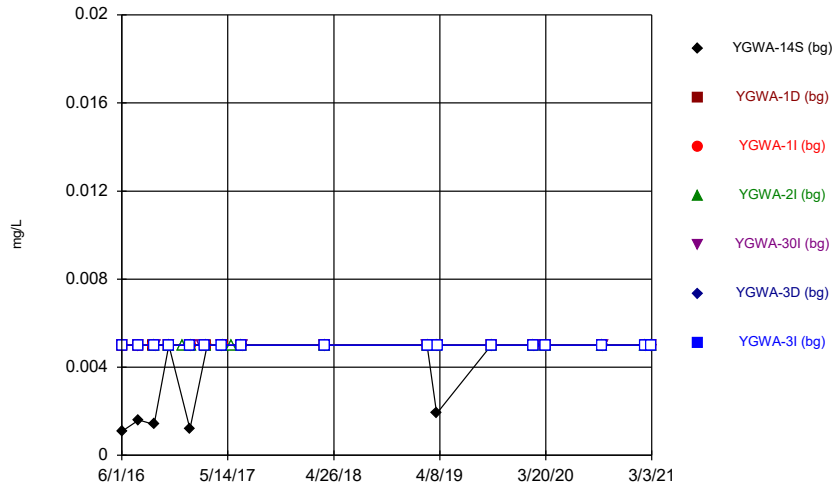
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



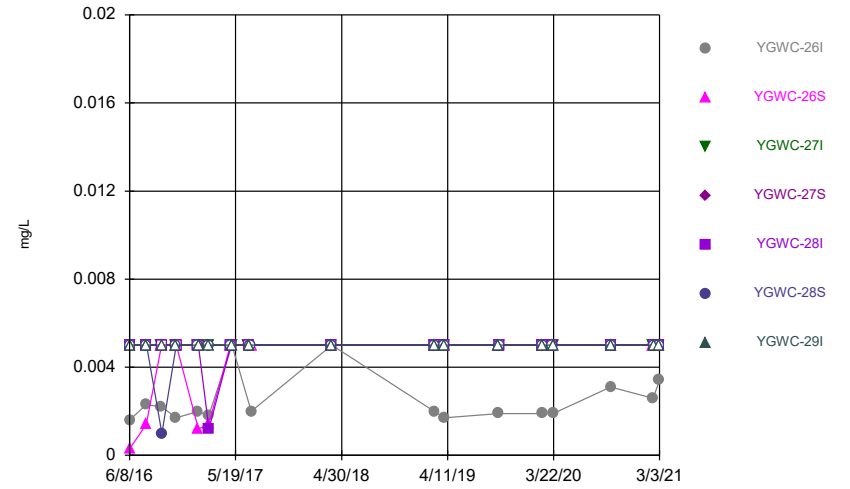
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



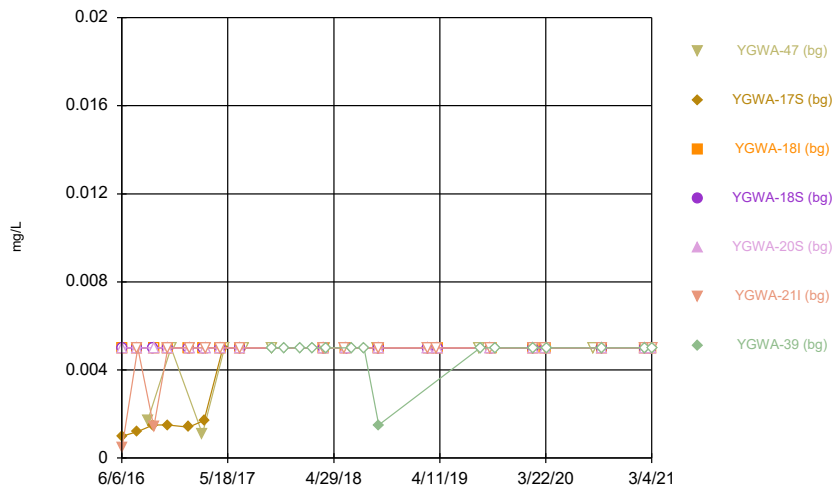
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



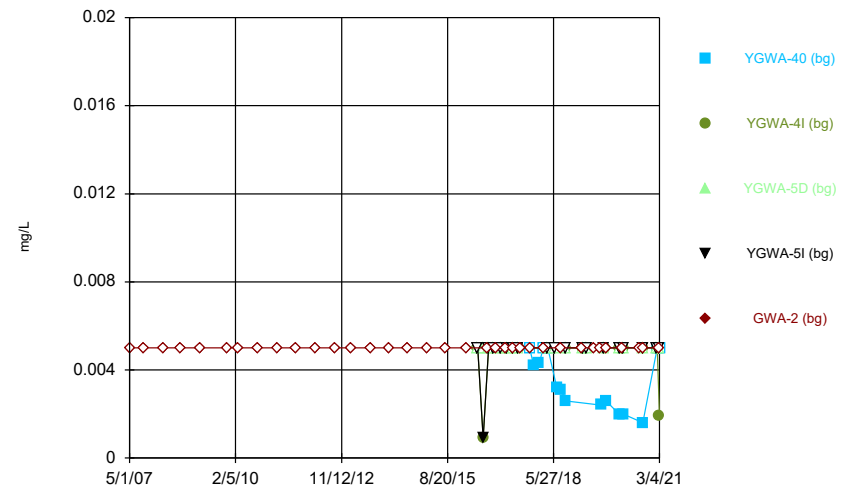
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



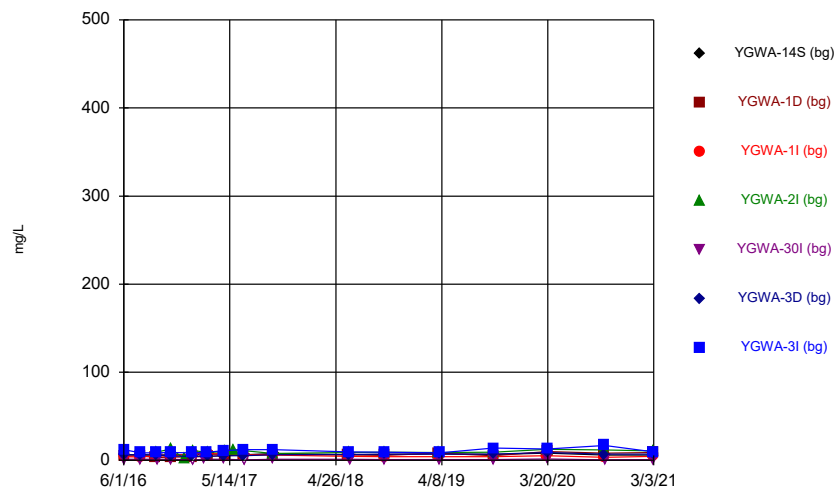
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



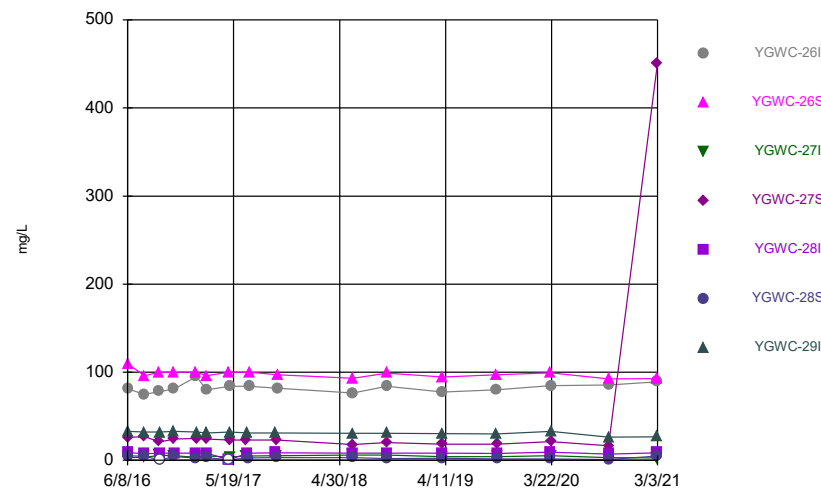
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Time Series



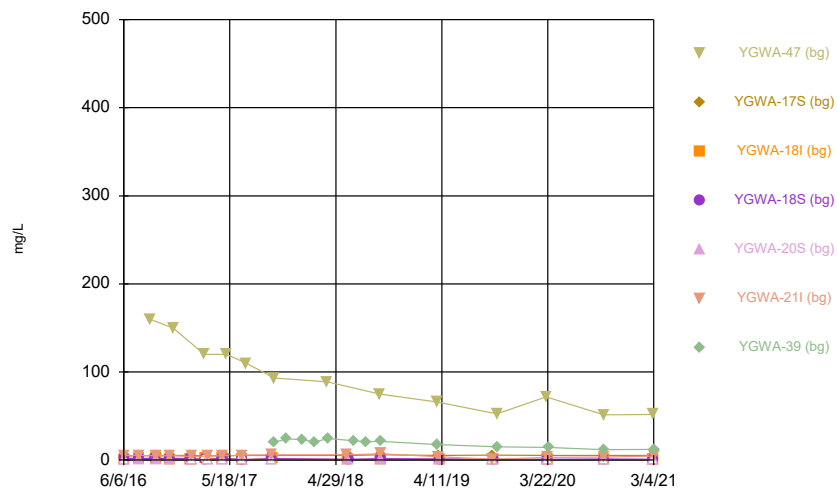
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



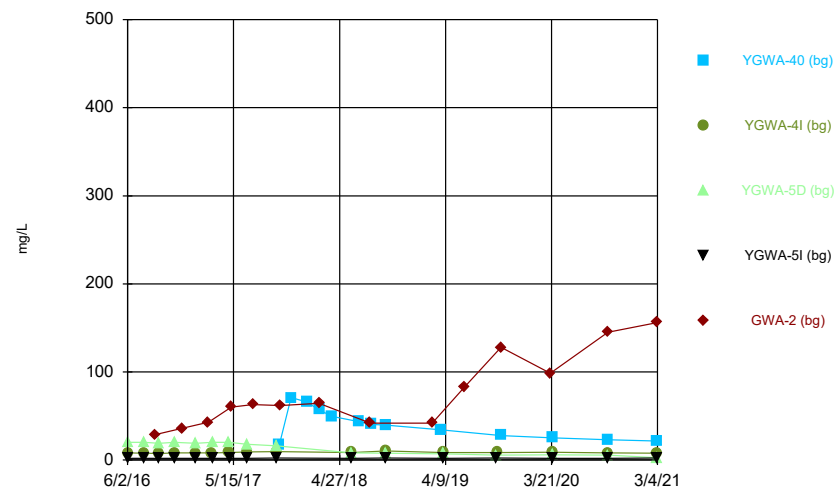
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



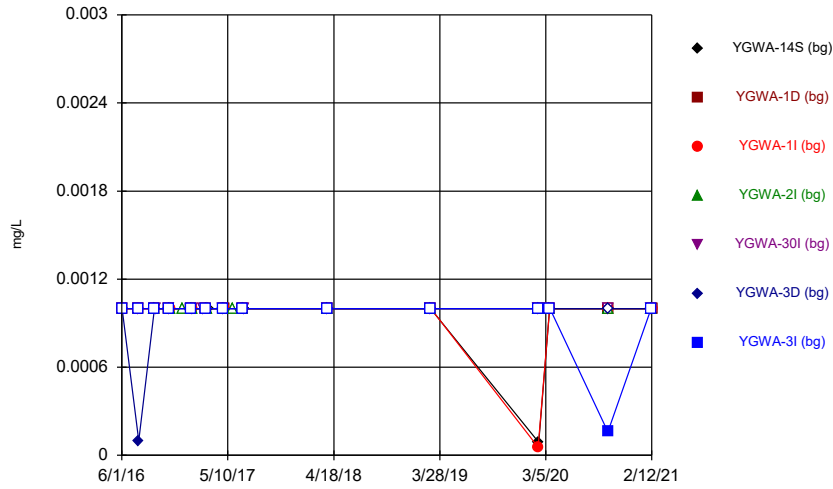
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



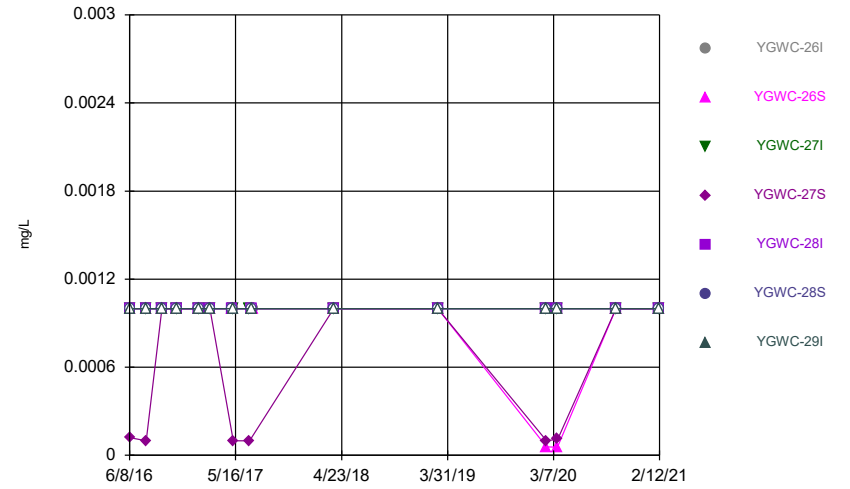
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



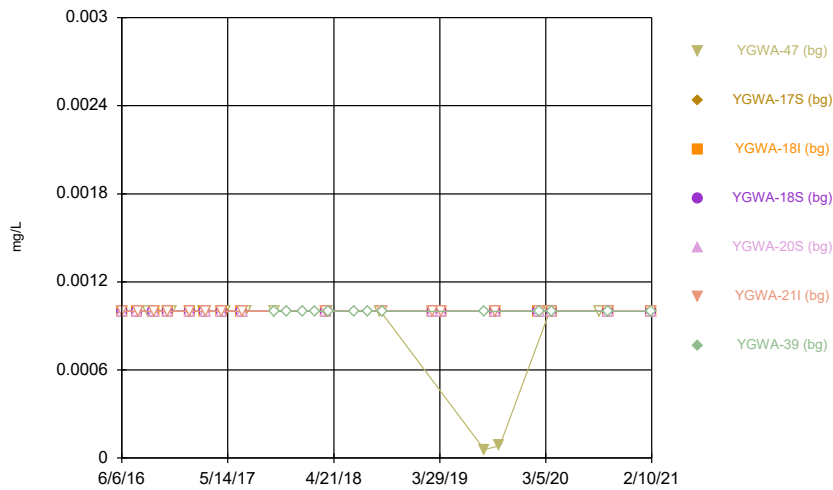
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



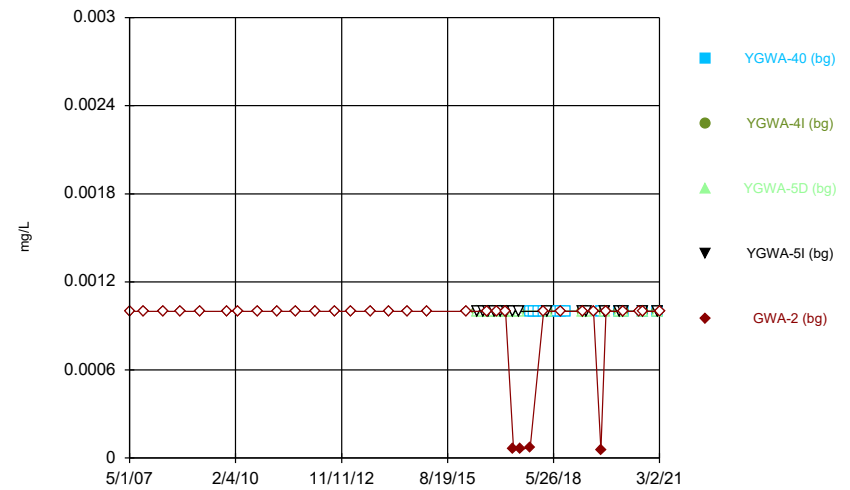
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



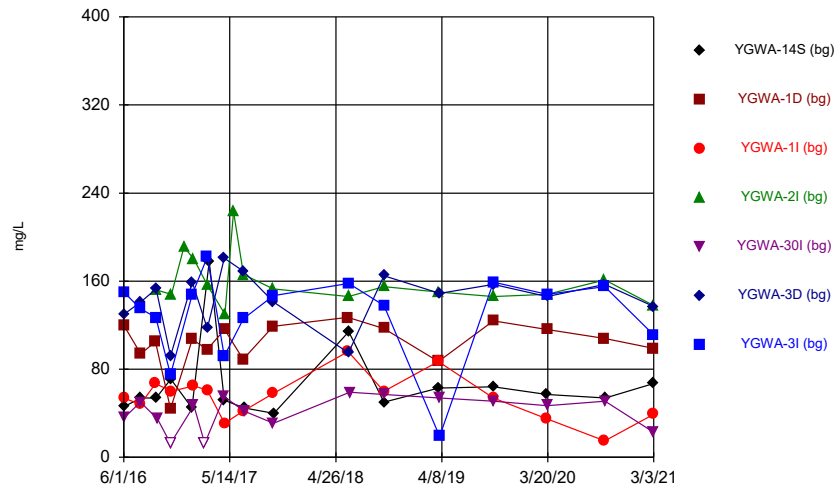
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



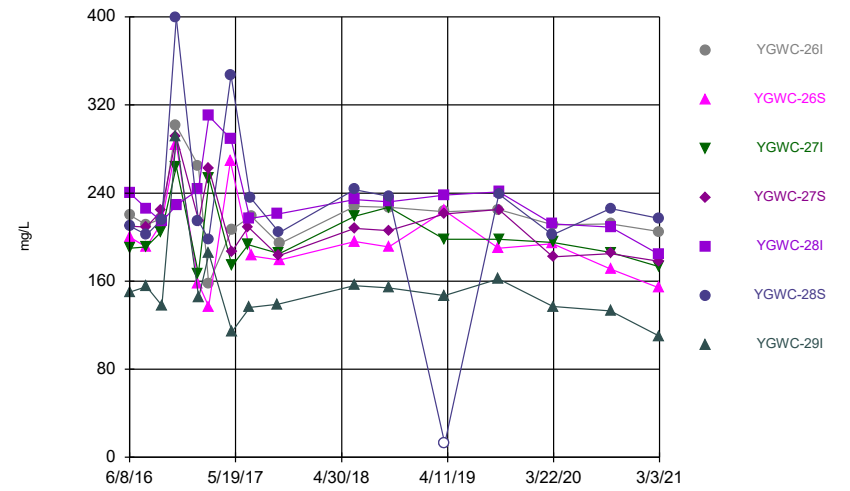
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



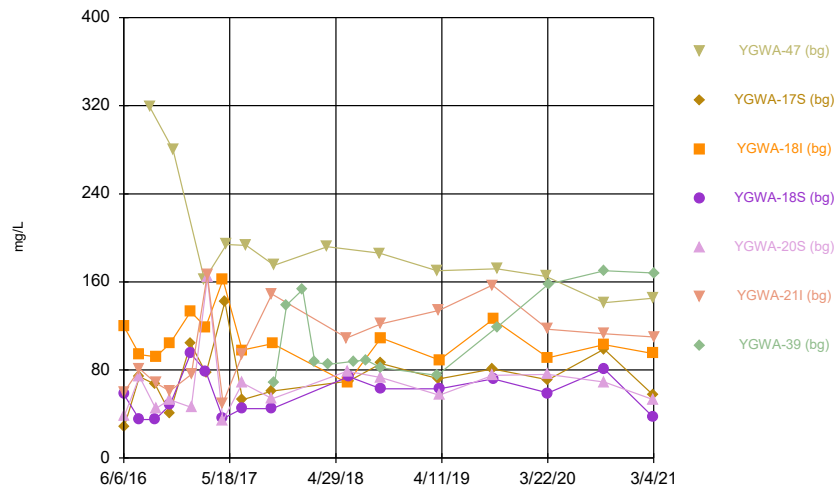
Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



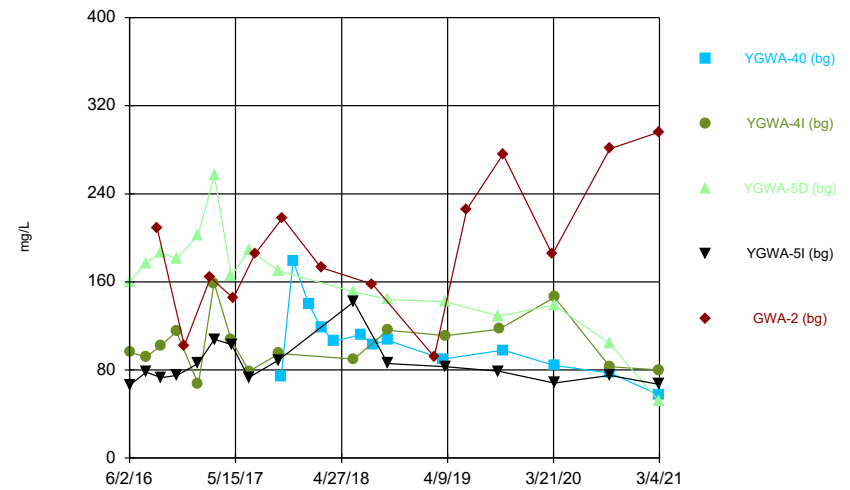
Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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)

Time Series

Constituent: Barium (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Barium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Barium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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)				

Time Series

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:43 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)

Time Series

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:43 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				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/10/2021 3:43 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)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:43 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				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:43 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)

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:43 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				

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/10/2021 3:43 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

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Constituent: Chromium (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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: Fluoride (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:43 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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Lead (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Lead (mg/L) Analysis Run 5/10/2021 3:43 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)

Time Series

Constituent: Lead (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Lead (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/10/2021 3:43 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)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2021	<0.03				

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/10/2021 3:43 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				

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/10/2021 3:43 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)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/10/2021 3:43 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				

Time Series

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:43 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				

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/10/2021 3:43 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				

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:43 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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:43 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 5/10/2021 3:43 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

Time Series

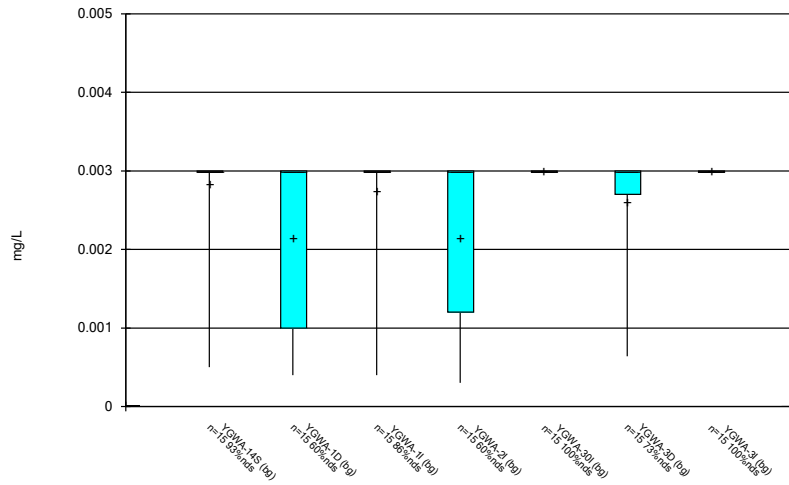
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:43 PM

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				

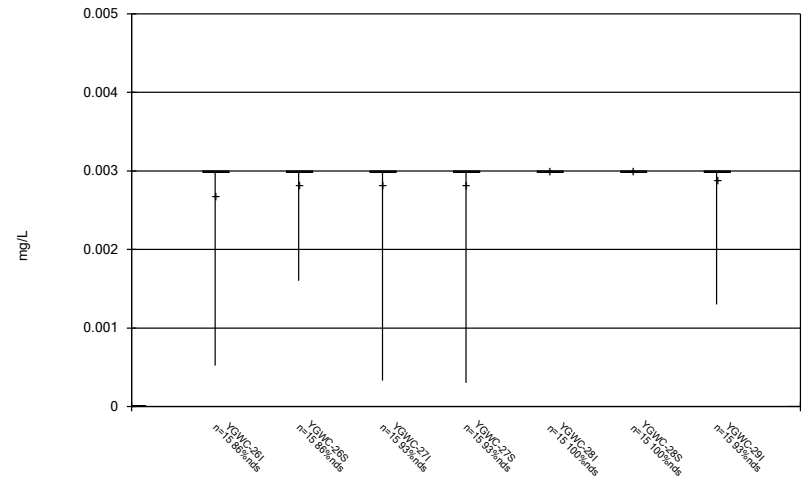
FIGURE B.

Box & Whiskers Plot



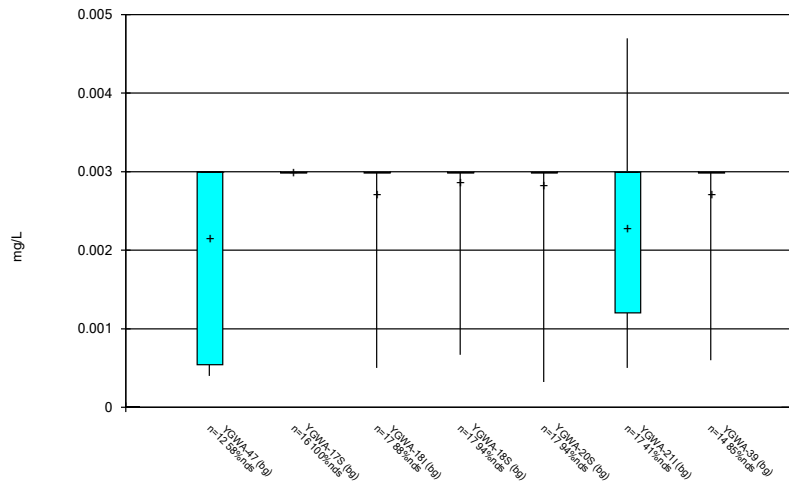
Constituent: Antimony Analysis Run 5/10/2021 3:45 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



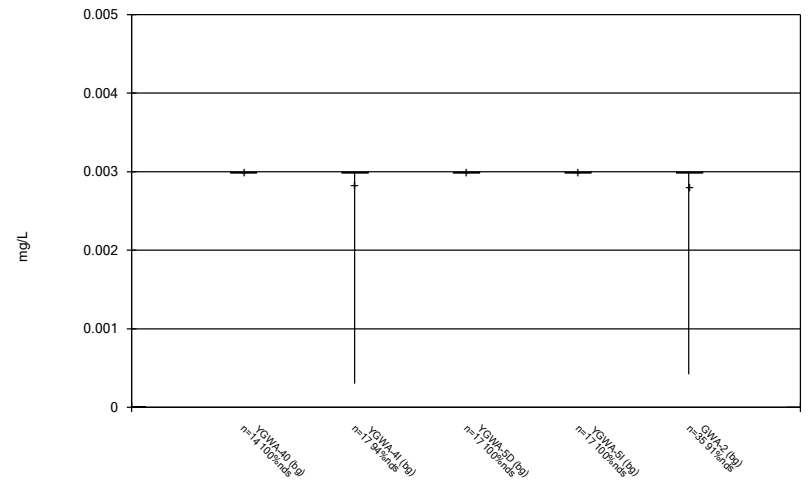
Constituent: Antimony Analysis Run 5/10/2021 3:45 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



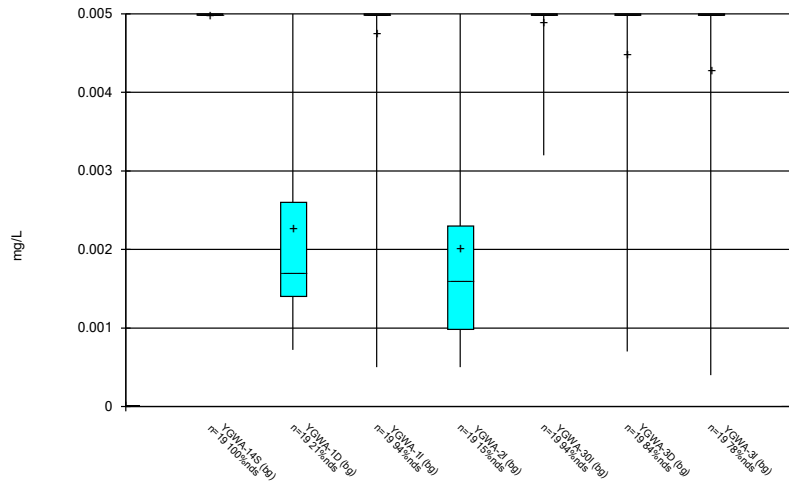
Constituent: Antimony Analysis Run 5/10/2021 3:45 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



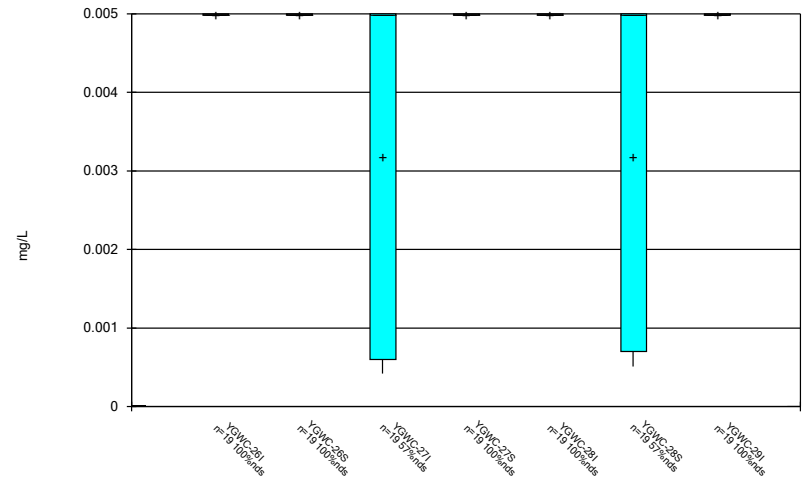
Constituent: Antimony Analysis Run 5/10/2021 3:45 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



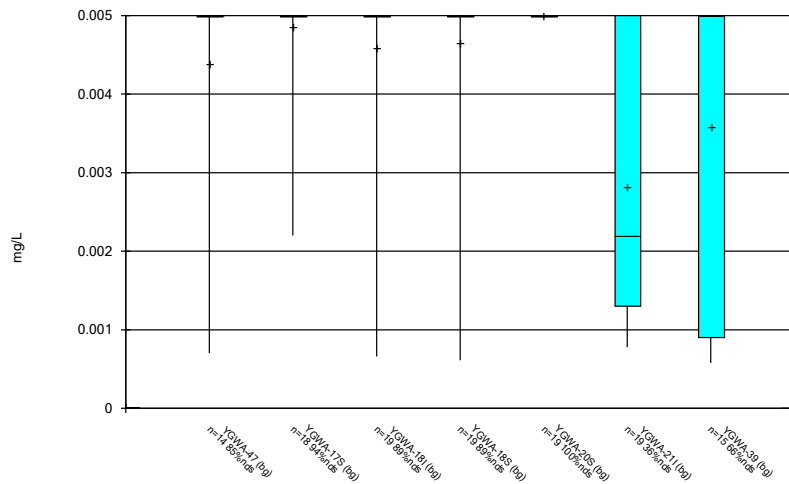
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



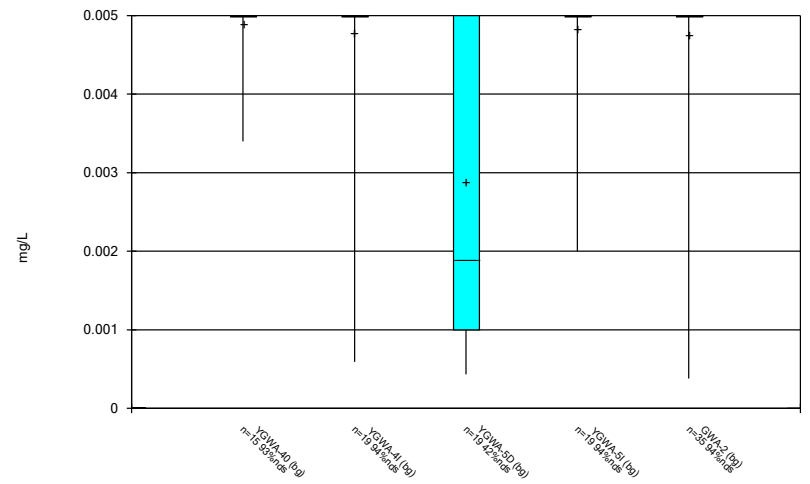
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Box & Whiskers Plot



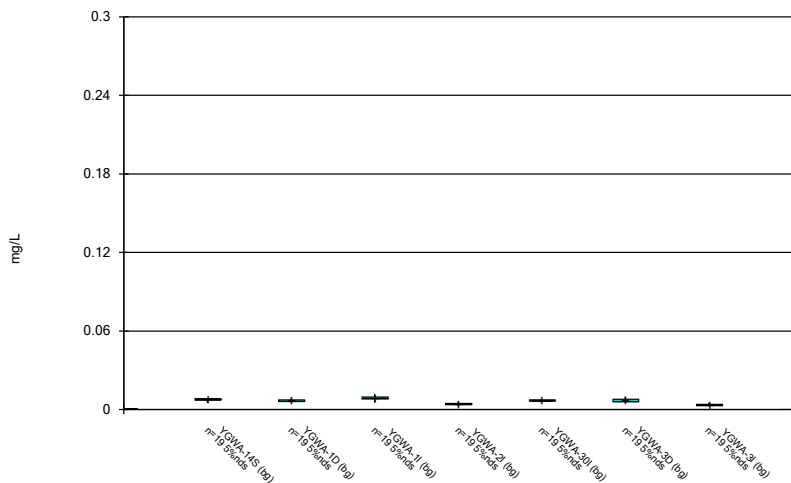
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Box & Whiskers Plot



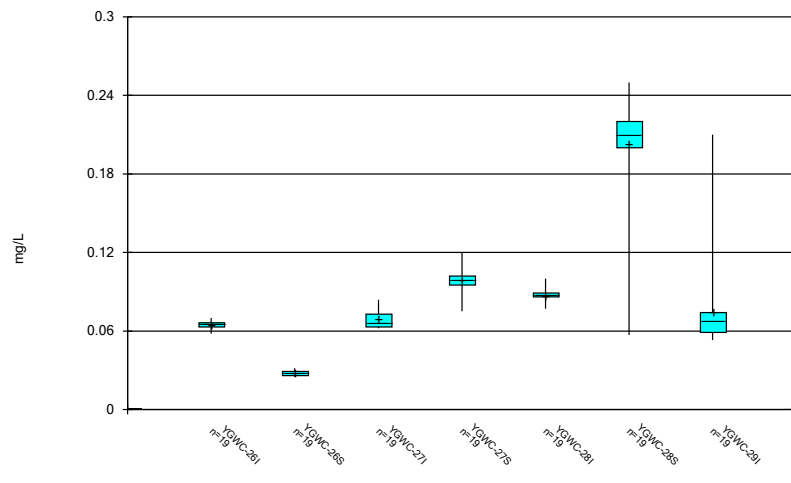
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Box & Whiskers Plot



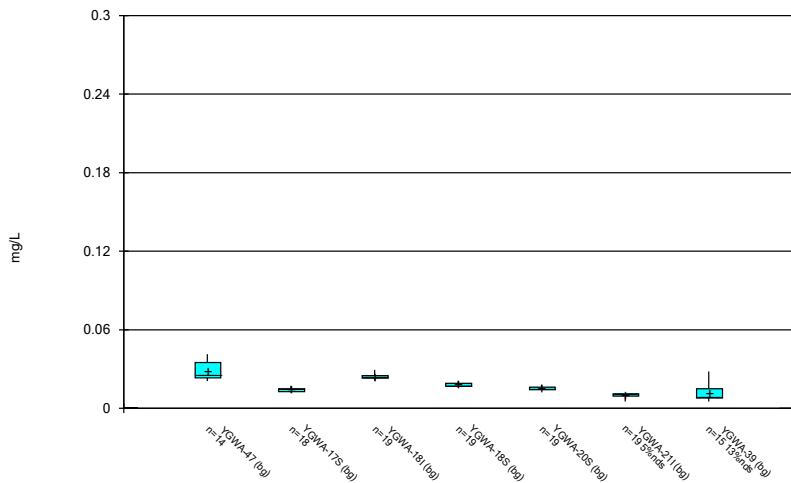
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Box & Whiskers Plot



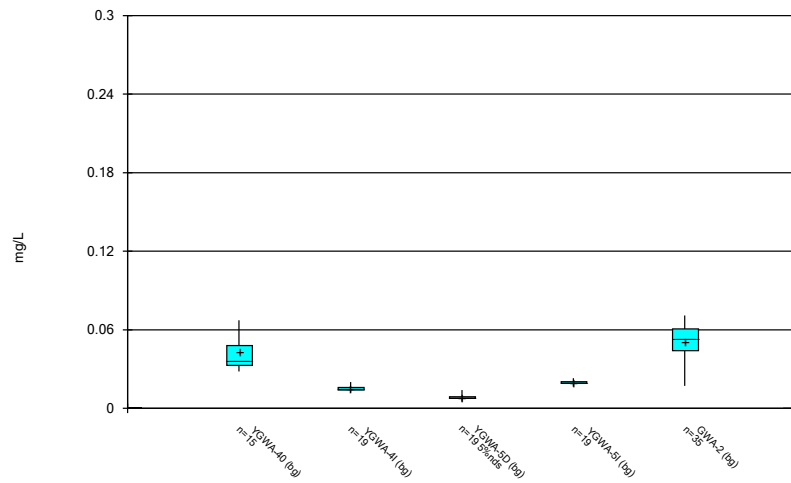
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Box & Whiskers Plot



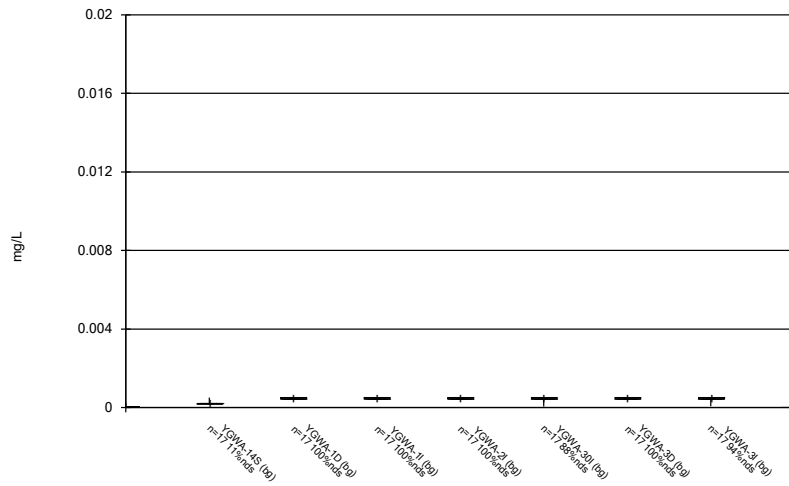
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Box & Whiskers Plot



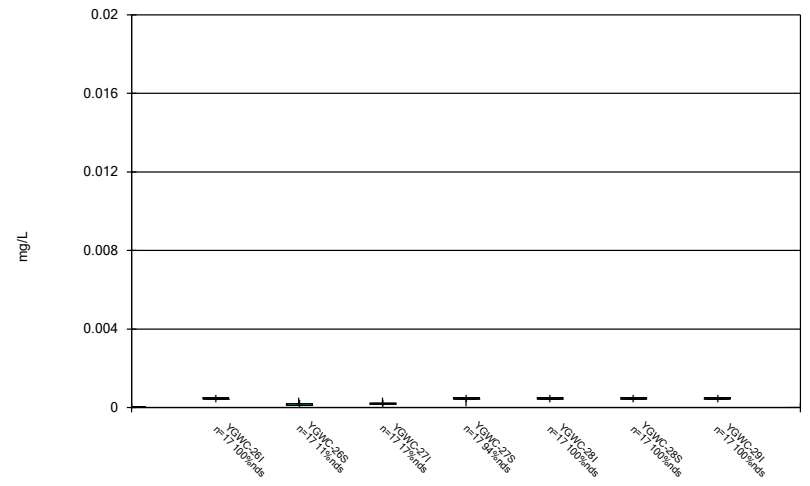
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Box & Whiskers Plot



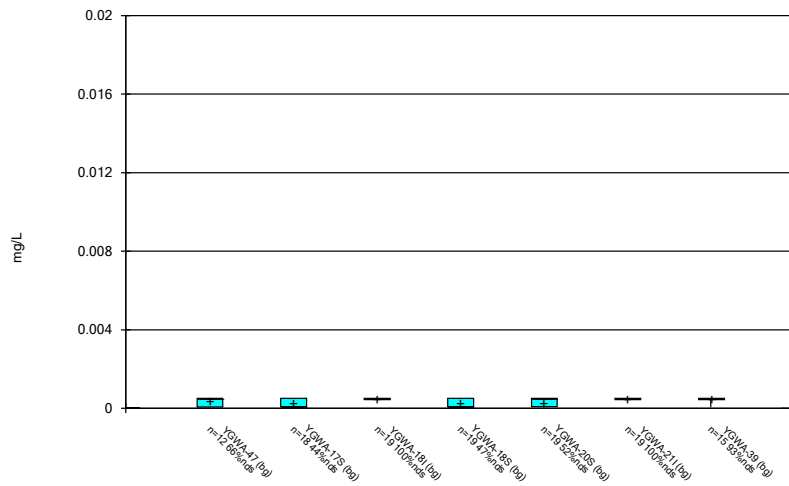
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Box & Whiskers Plot



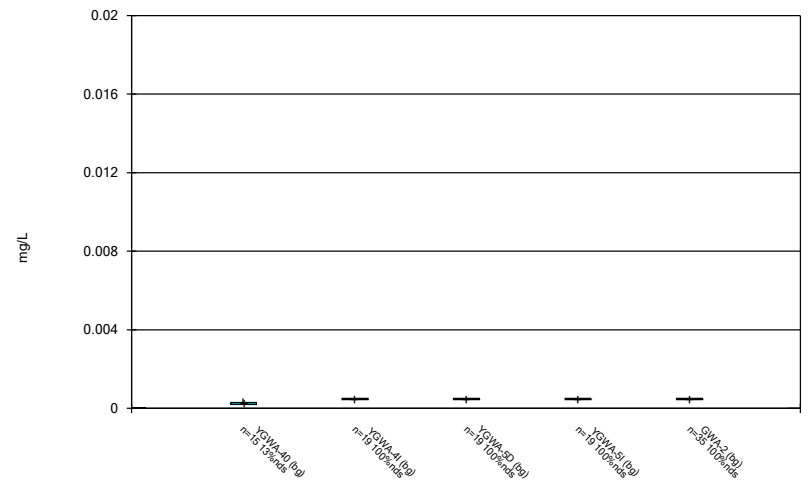
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Box & Whiskers Plot



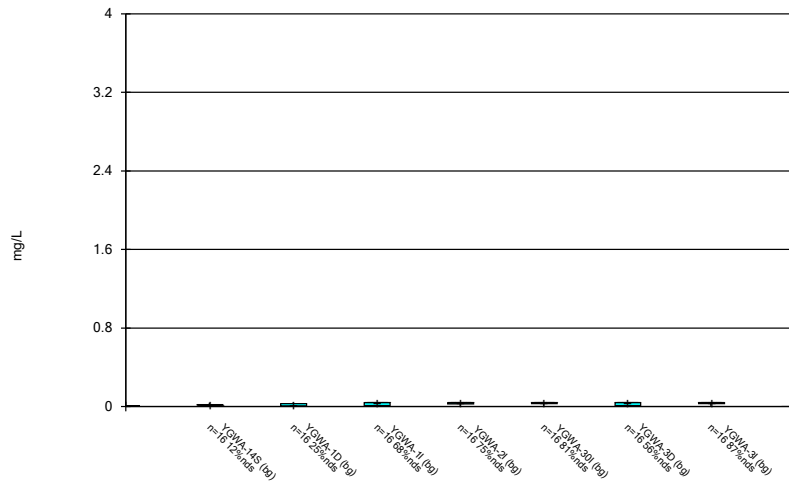
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Box & Whiskers Plot



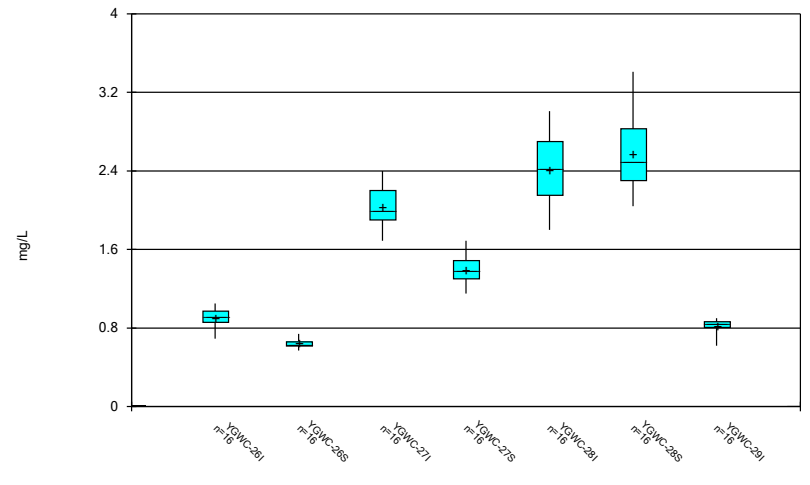
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Box & Whiskers Plot



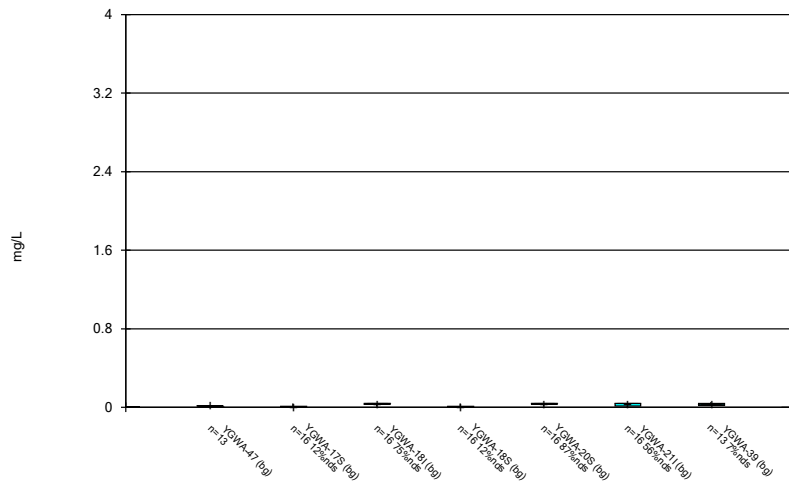
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Box & Whiskers Plot



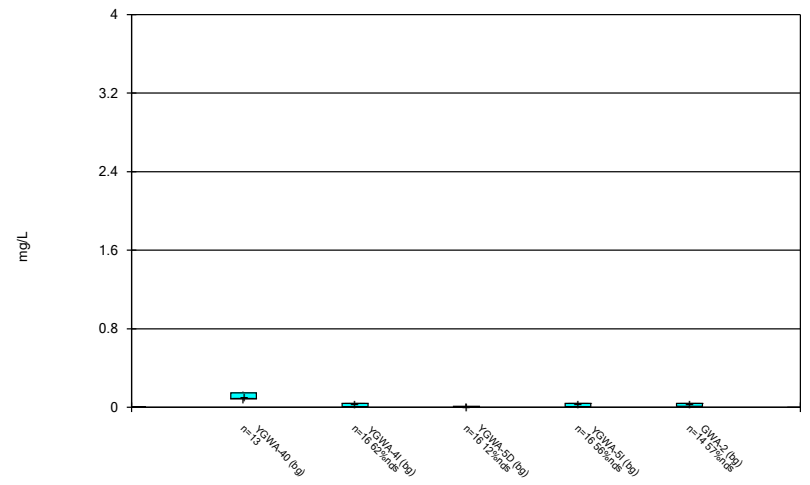
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Box & Whiskers Plot



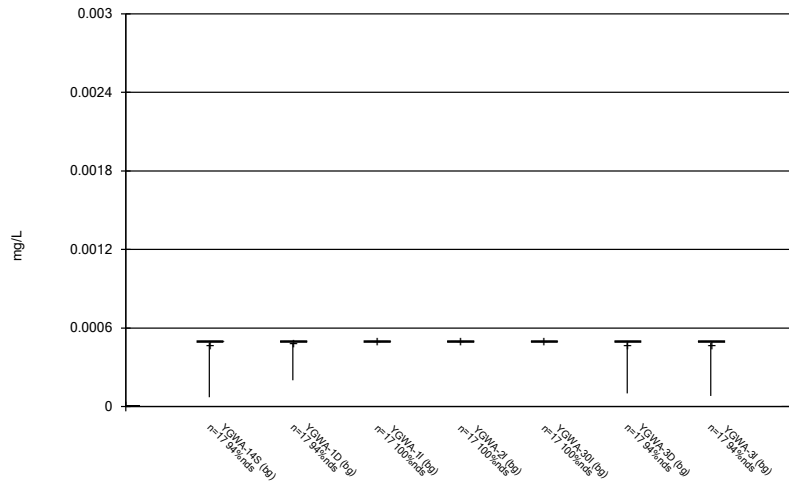
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Box & Whiskers Plot



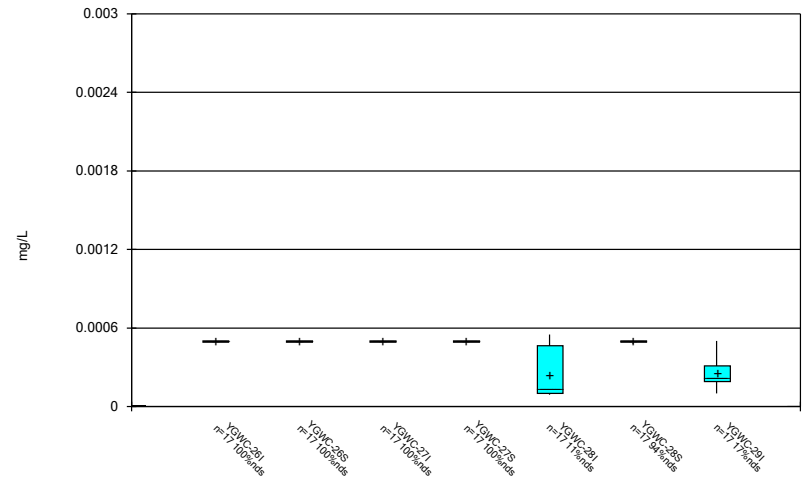
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Box & Whiskers Plot



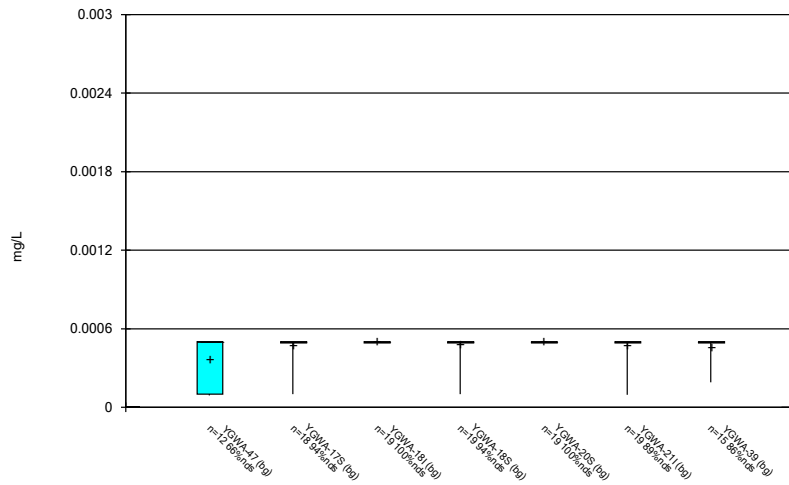
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Box & Whiskers Plot



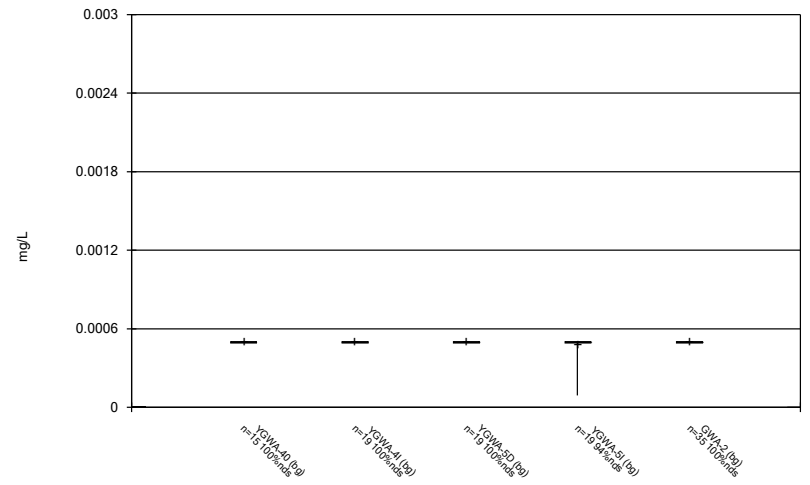
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Box & Whiskers Plot



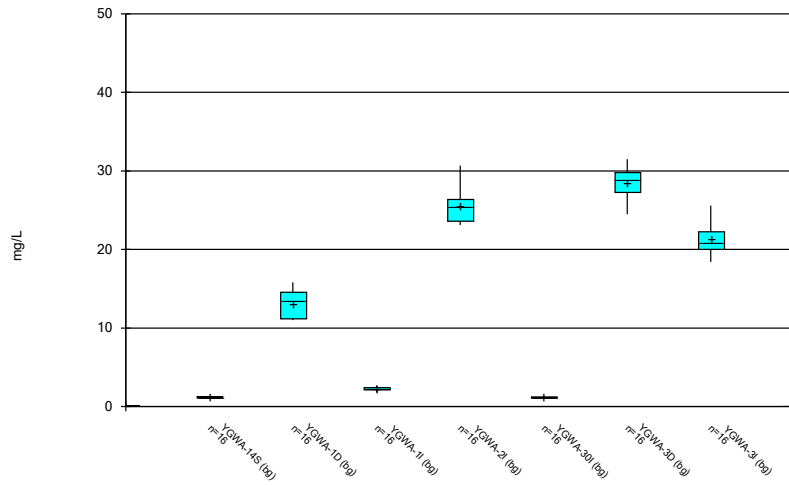
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Box & Whiskers Plot



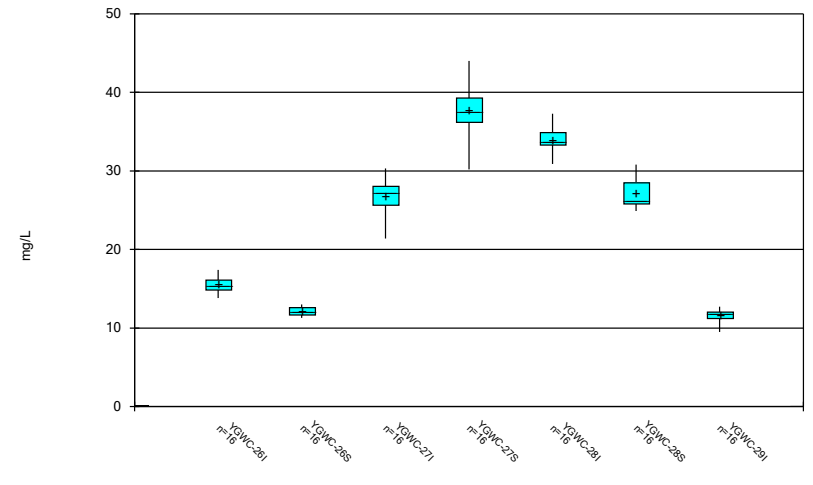
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Box & Whiskers Plot



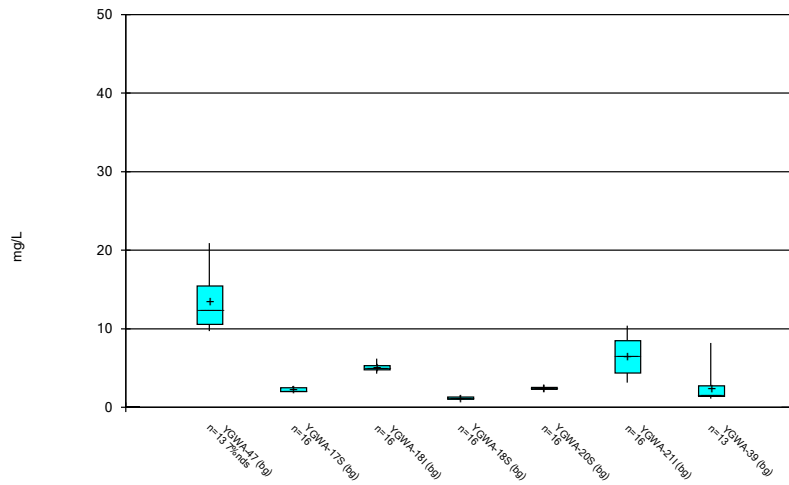
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Box & Whiskers Plot



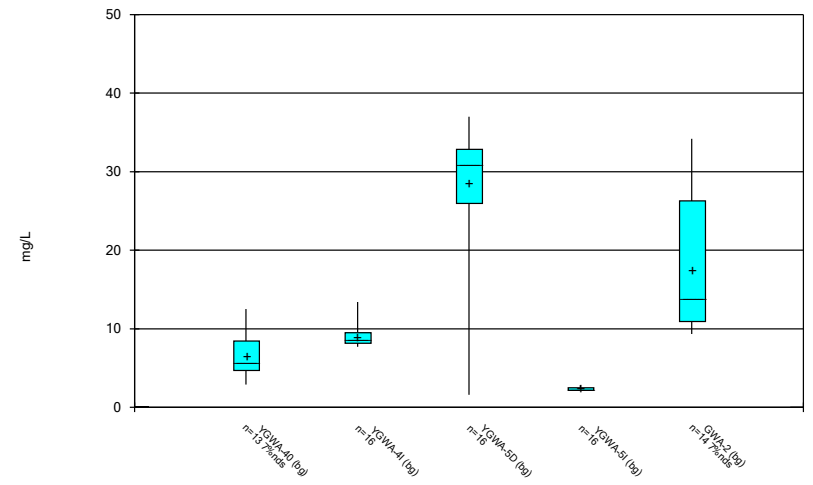
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Box & Whiskers Plot



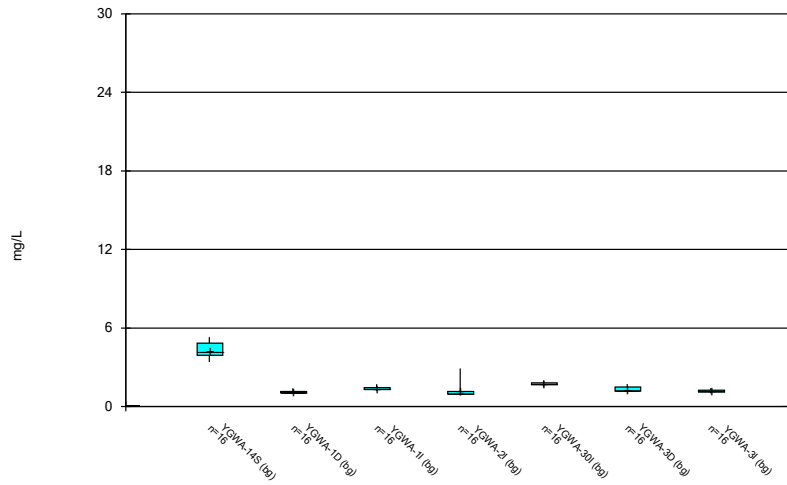
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Box & Whiskers Plot



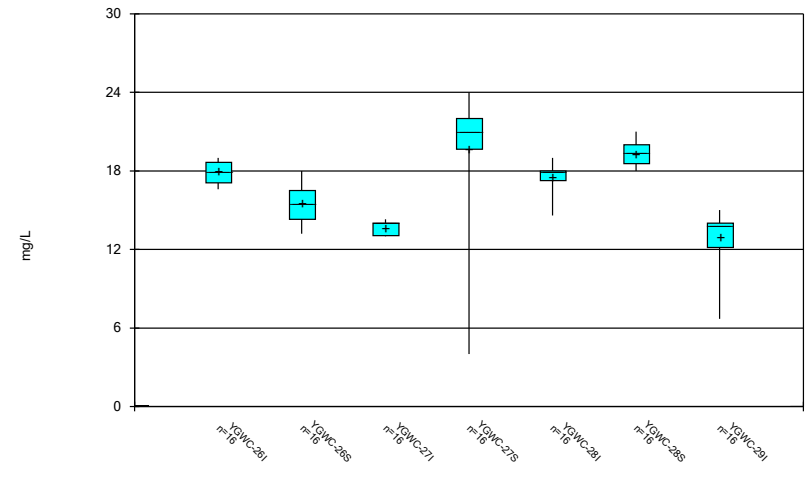
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Box & Whiskers Plot



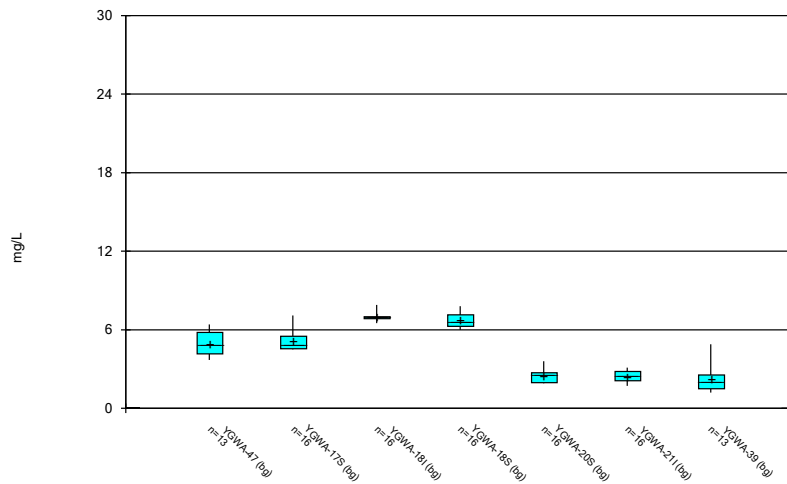
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Box & Whiskers Plot



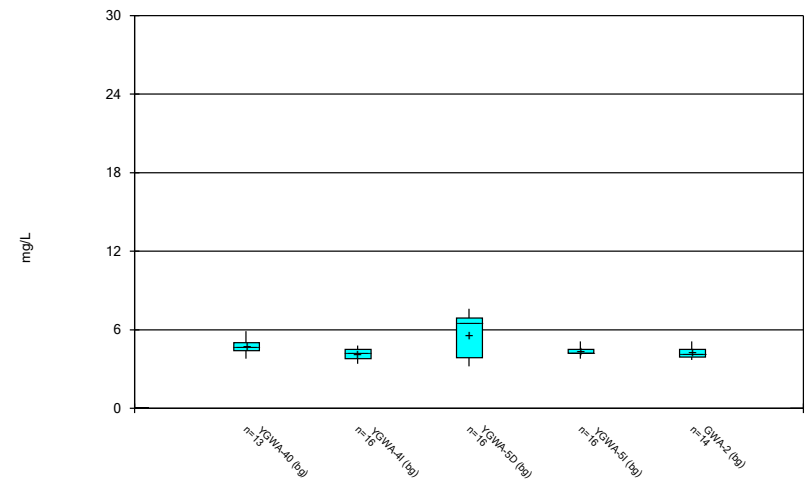
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Box & Whiskers Plot



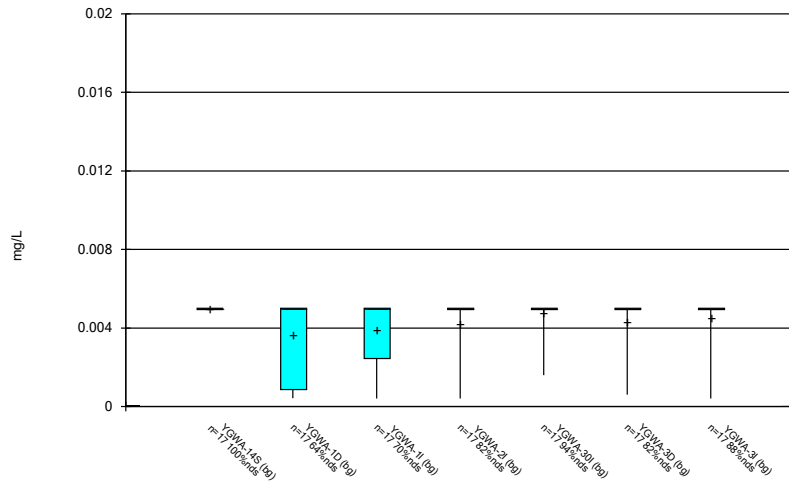
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Box & Whiskers Plot



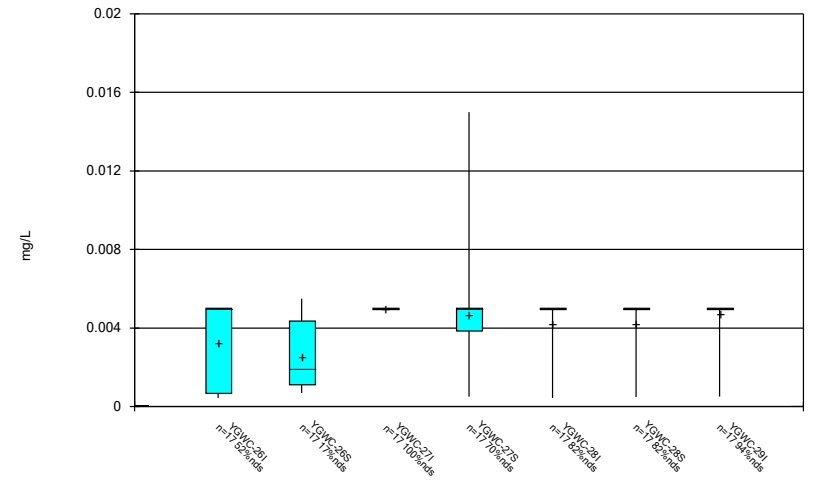
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Box & Whiskers Plot



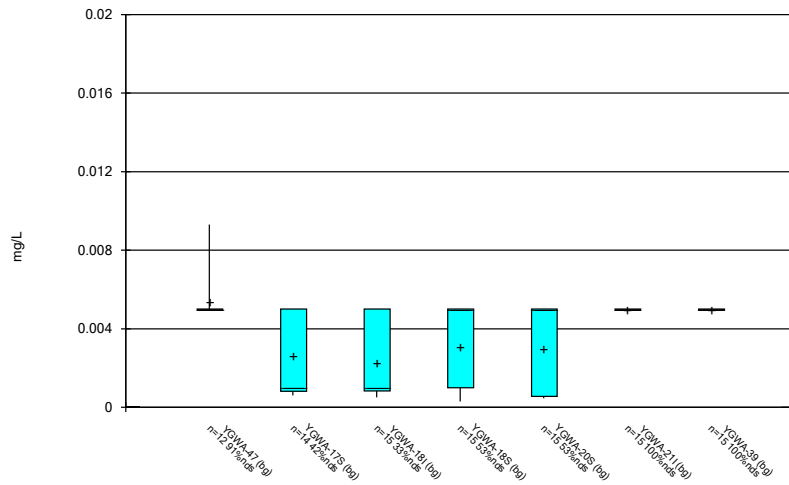
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Box & Whiskers Plot



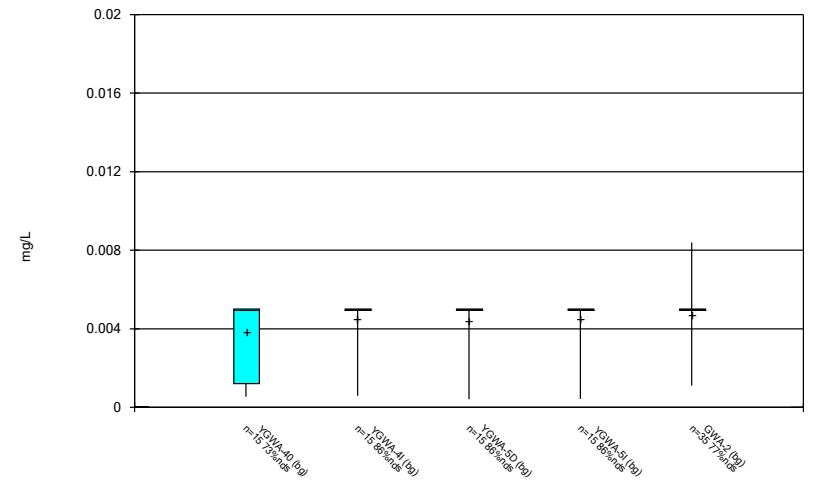
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Box & Whiskers Plot



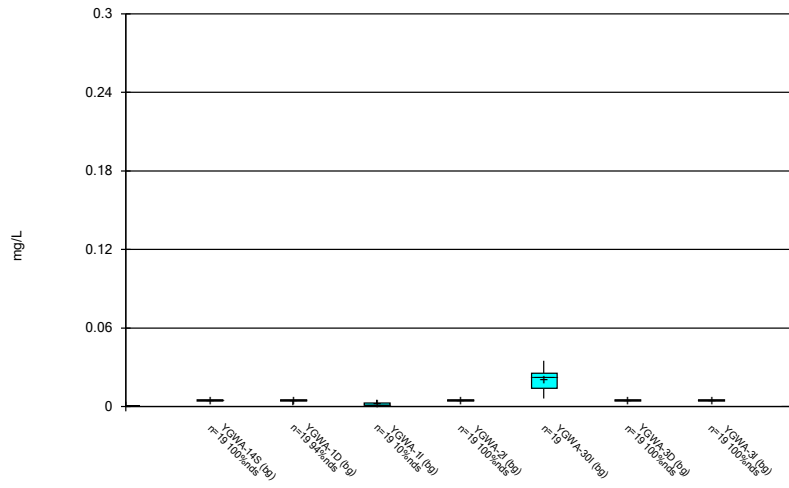
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Box & Whiskers Plot



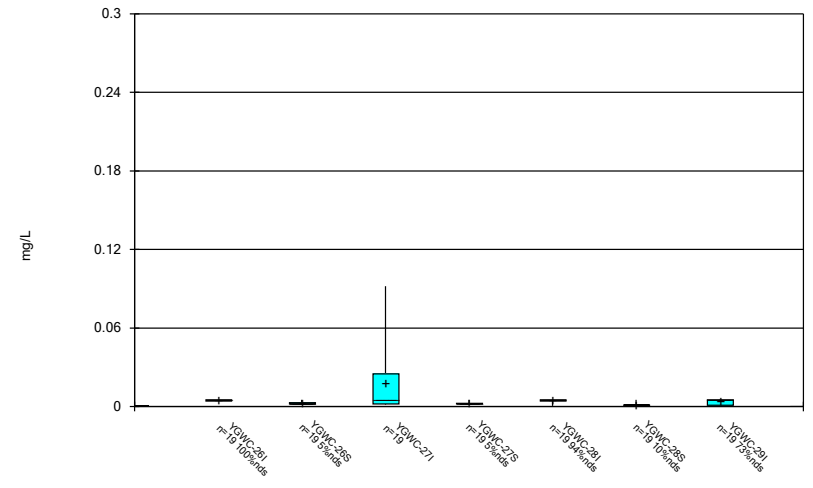
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Box & Whiskers Plot



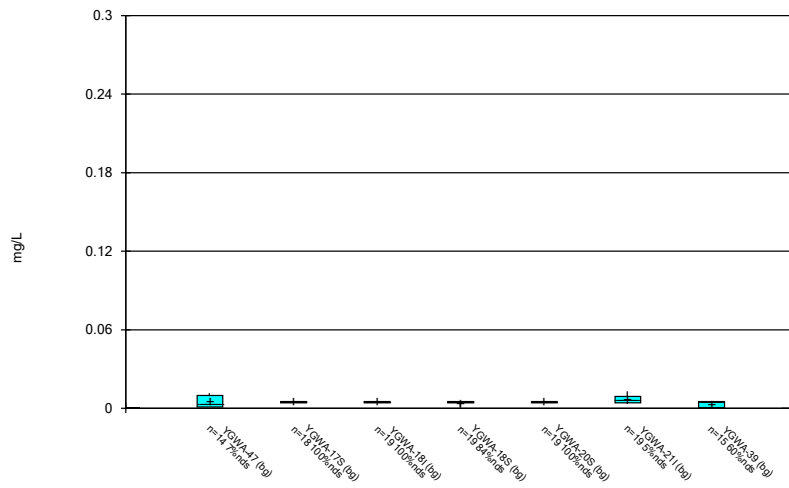
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Box & Whiskers Plot



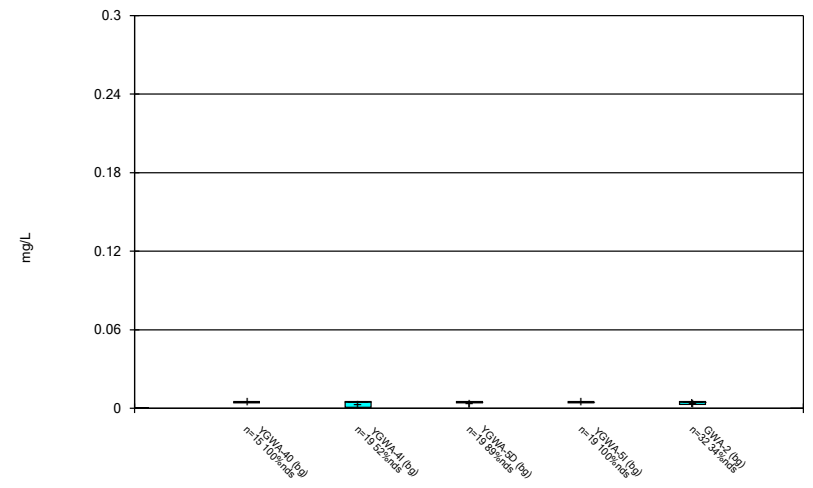
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Box & Whiskers Plot



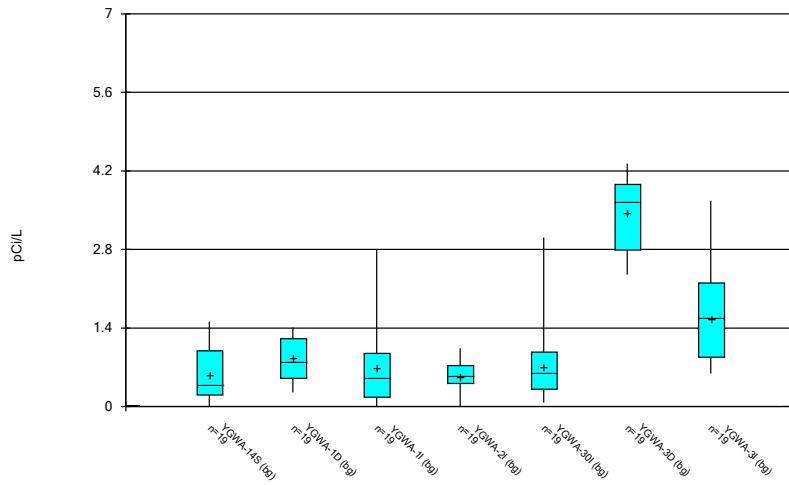
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Box & Whiskers Plot



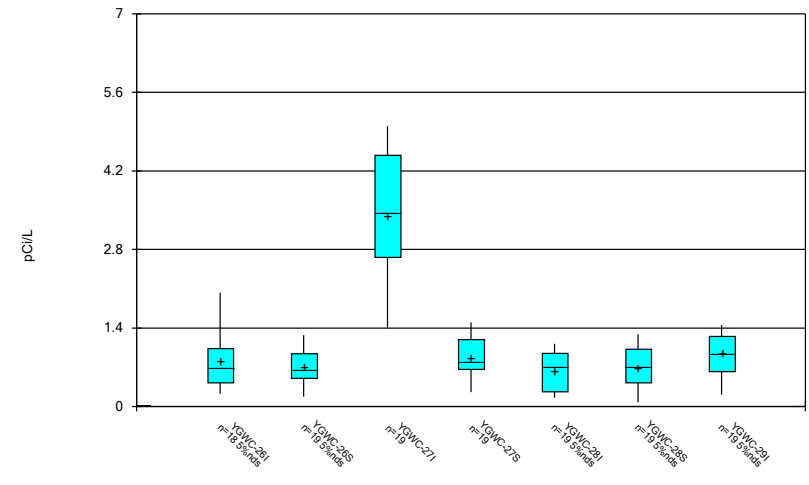
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Box & Whiskers Plot



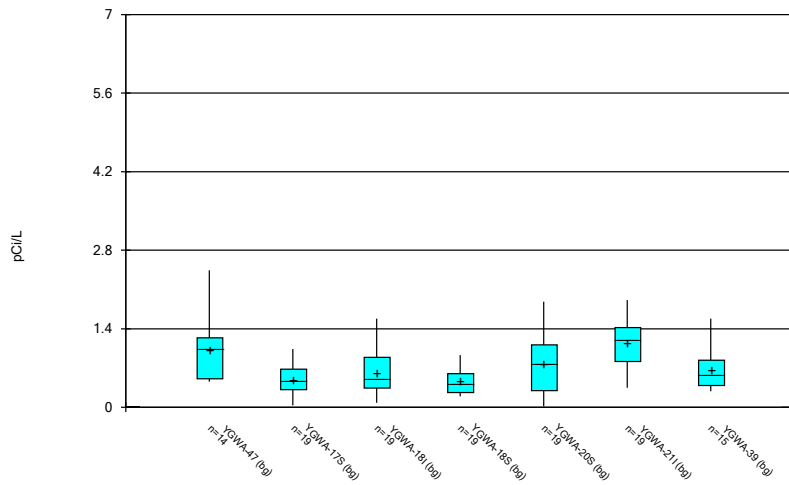
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Box & Whiskers Plot



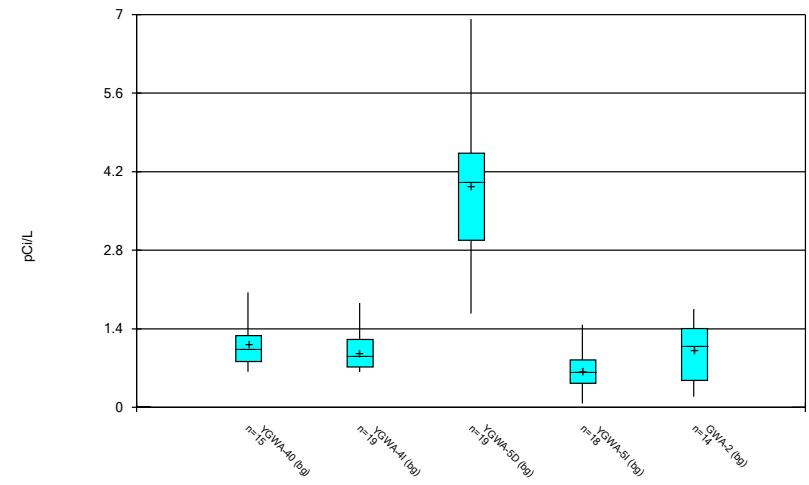
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Box & Whiskers Plot



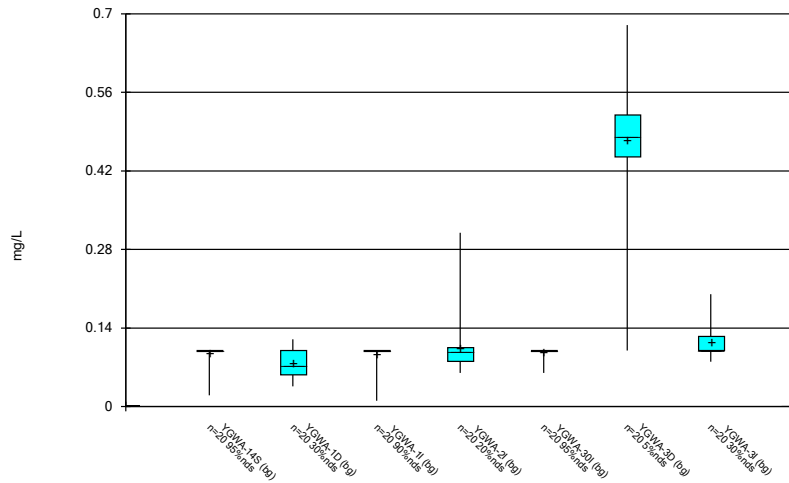
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Box & Whiskers Plot



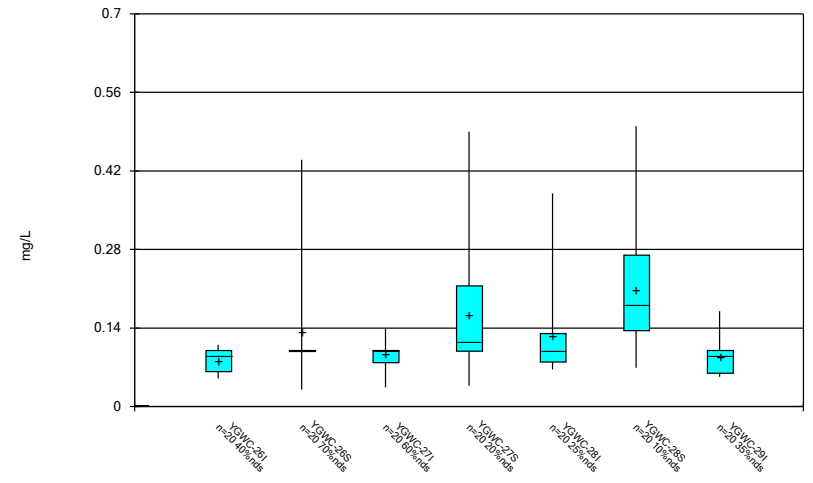
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Box & Whiskers Plot



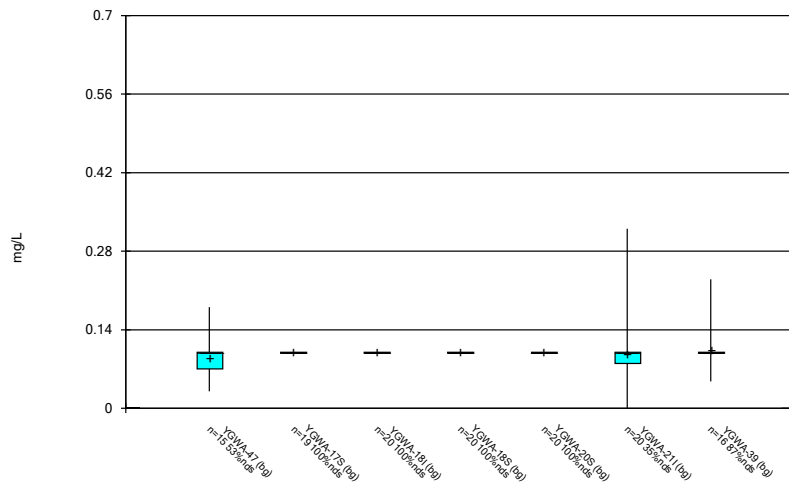
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Box & Whiskers Plot



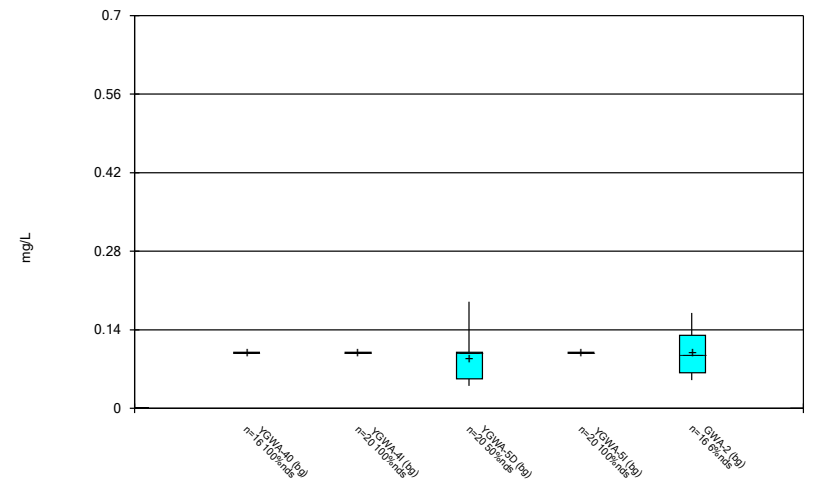
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Box & Whiskers Plot



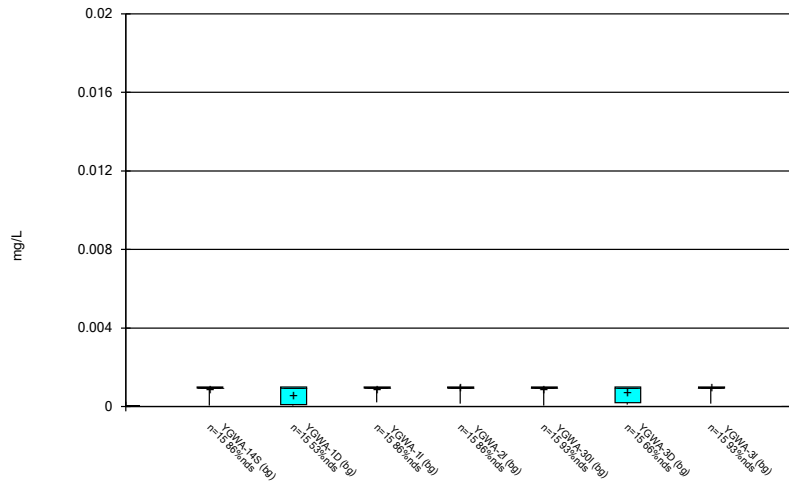
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Box & Whiskers Plot



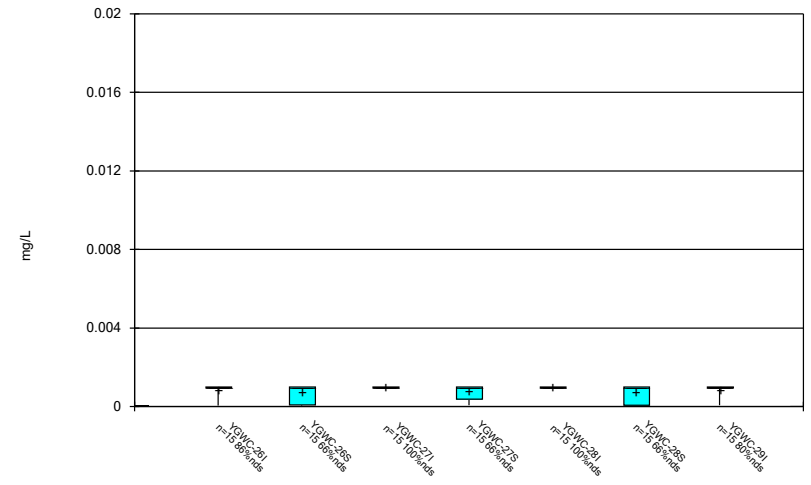
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Box & Whiskers Plot



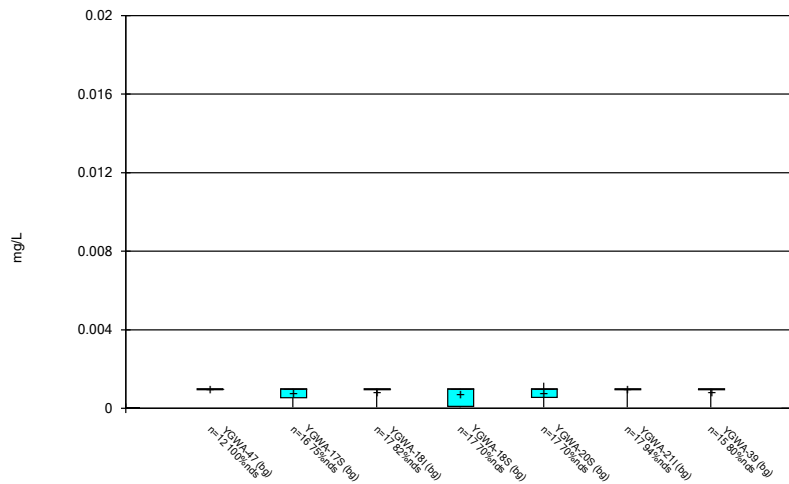
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Box & Whiskers Plot



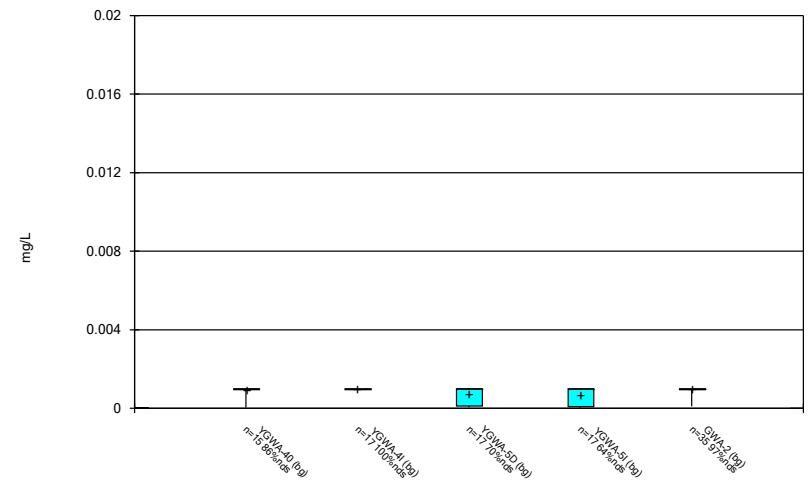
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Box & Whiskers Plot



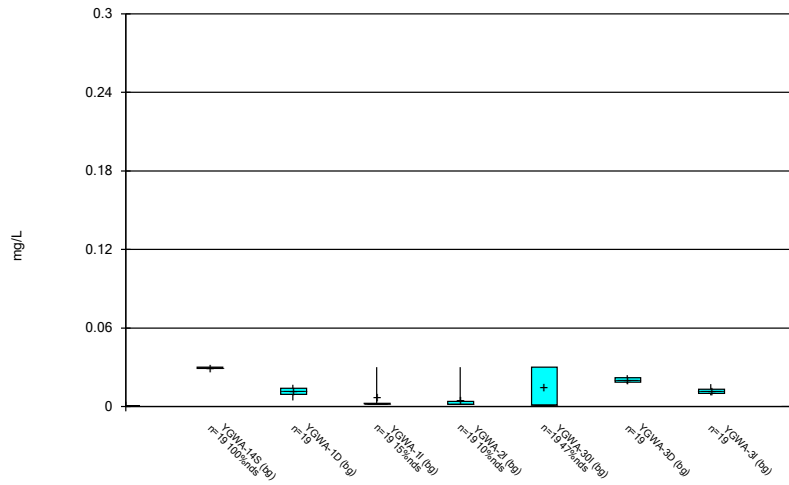
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Box & Whiskers Plot



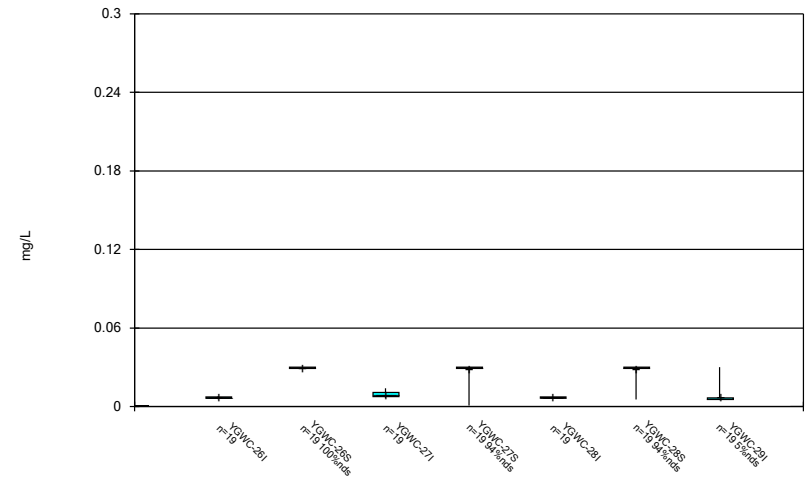
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Box & Whiskers Plot



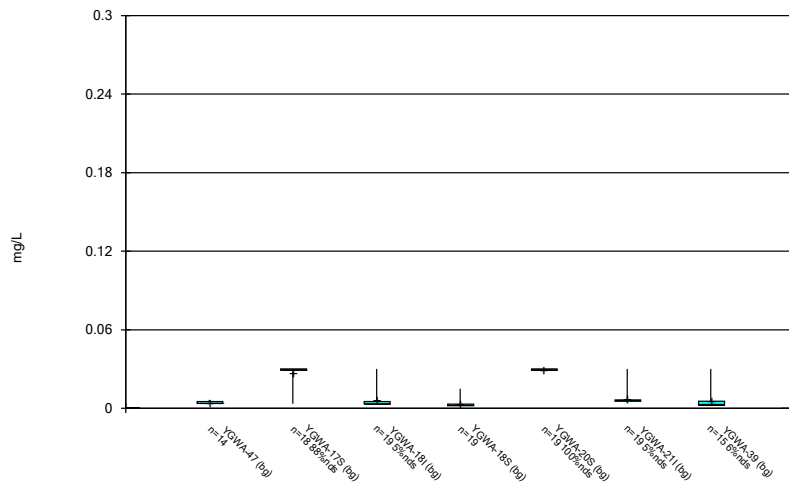
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Box & Whiskers Plot



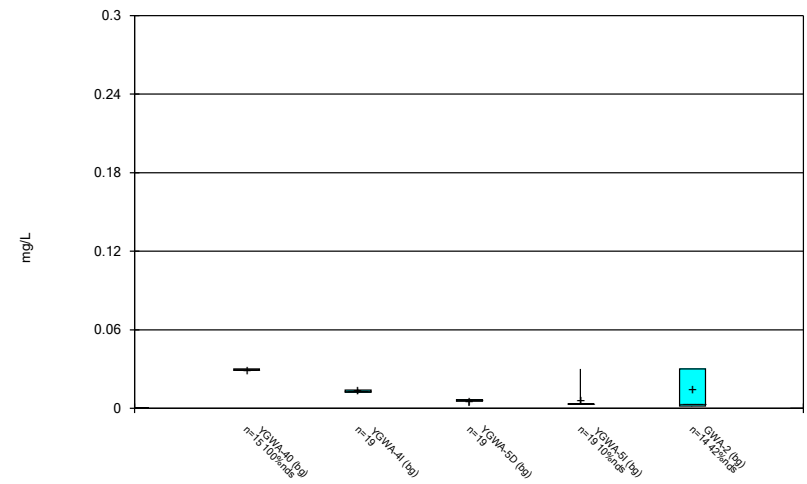
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Box & Whiskers Plot



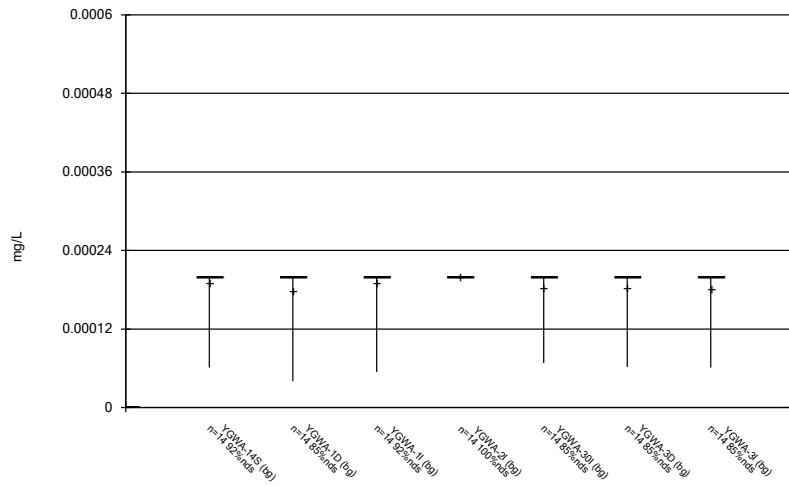
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Box & Whiskers Plot



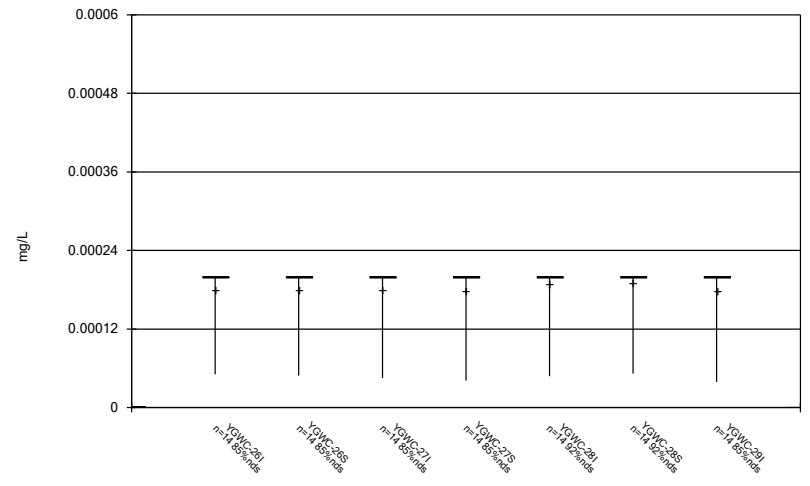
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Box & Whiskers Plot



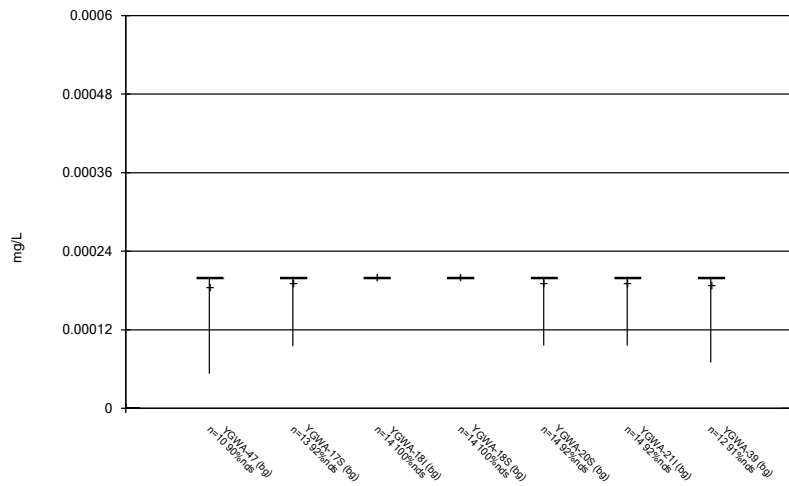
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Box & Whiskers Plot



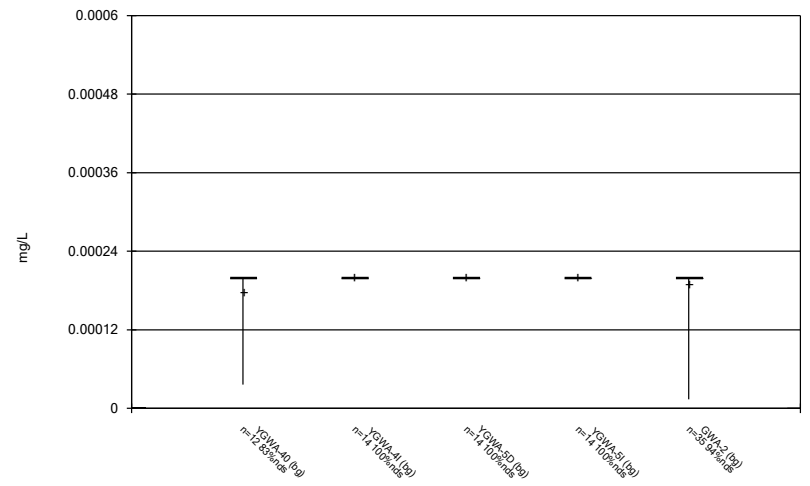
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Box & Whiskers Plot



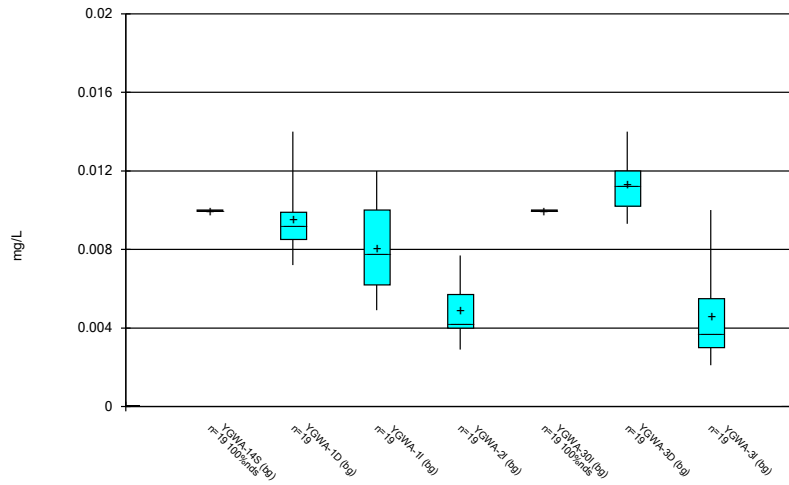
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Box & Whiskers Plot



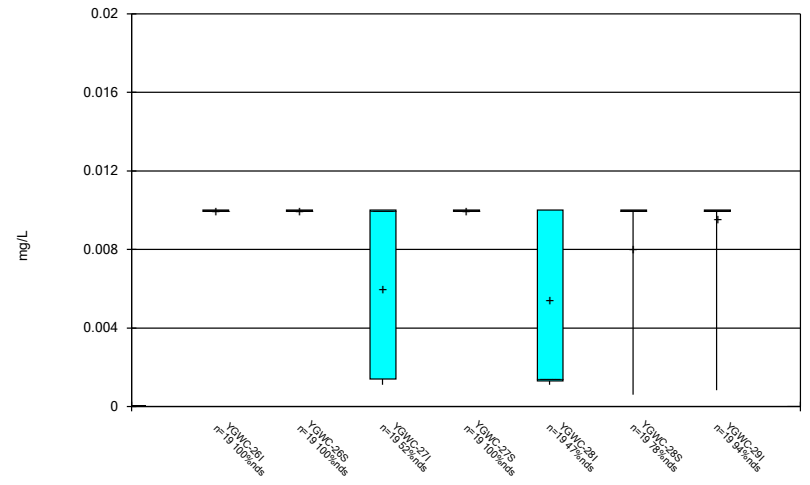
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Box & Whiskers Plot



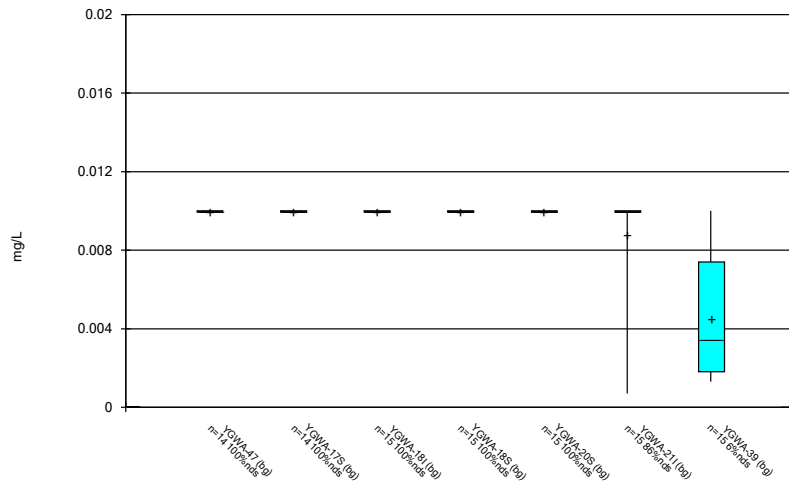
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Box & Whiskers Plot



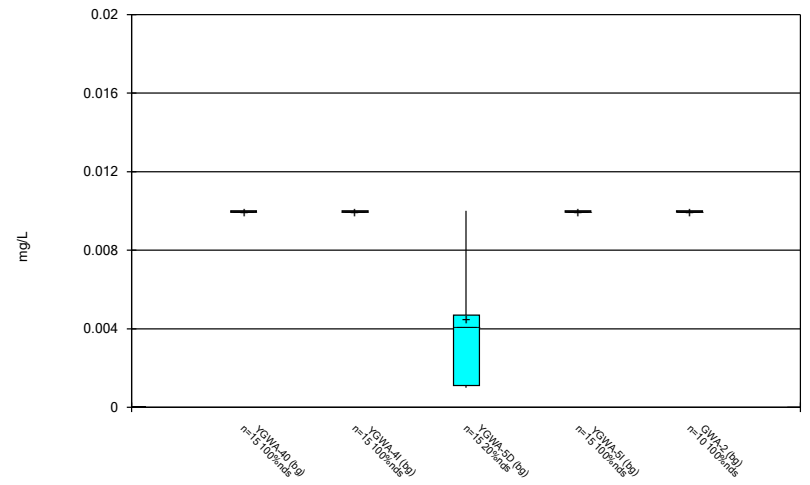
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Box & Whiskers Plot



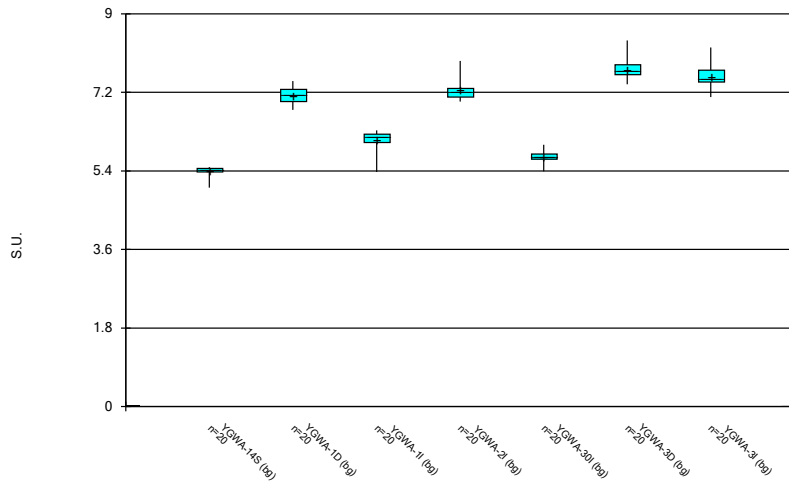
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Box & Whiskers Plot



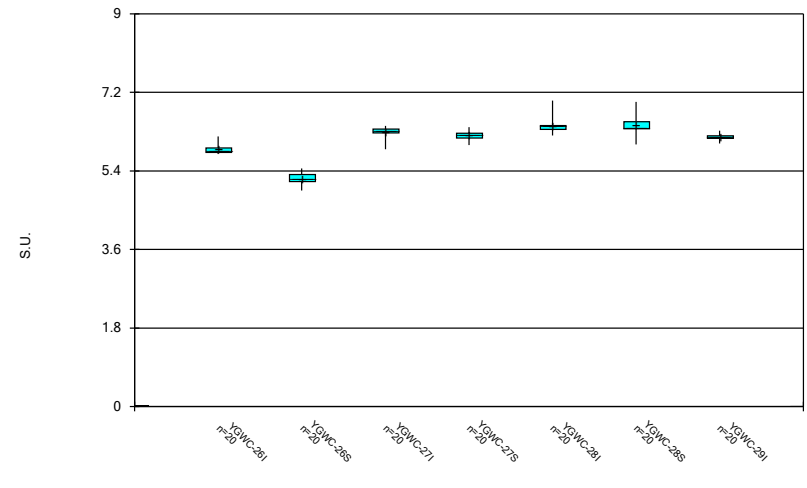
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Box & Whiskers Plot



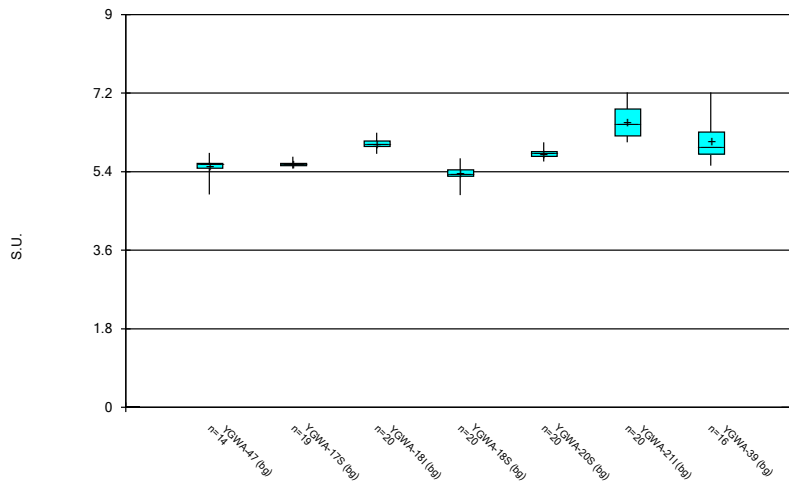
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Box & Whiskers Plot



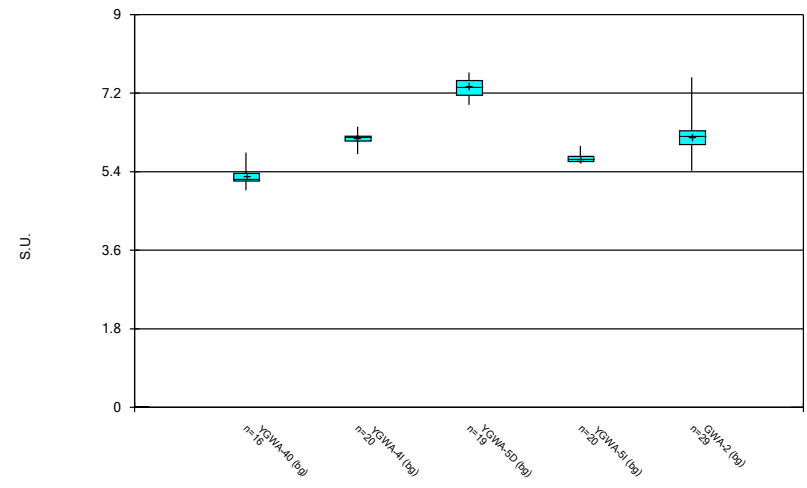
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Box & Whiskers Plot



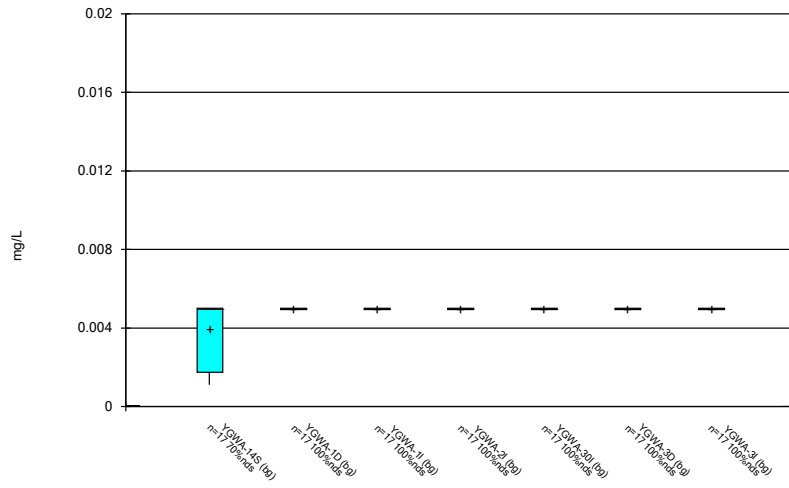
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Box & Whiskers Plot



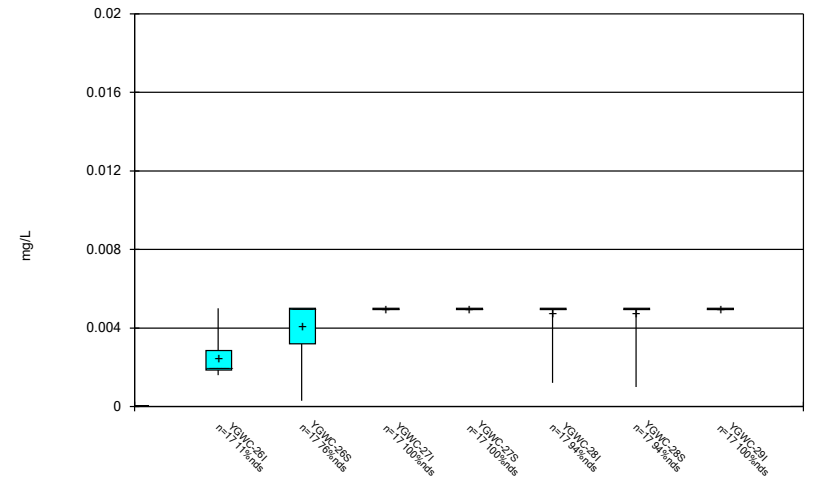
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Box & Whiskers Plot



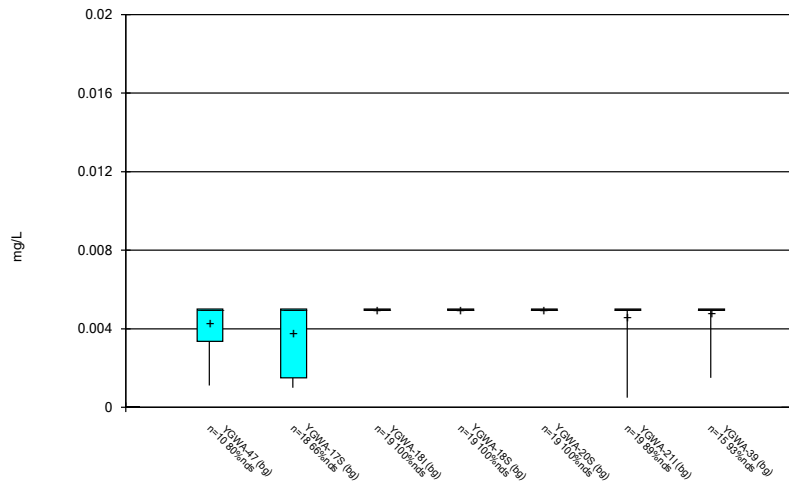
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Box & Whiskers Plot



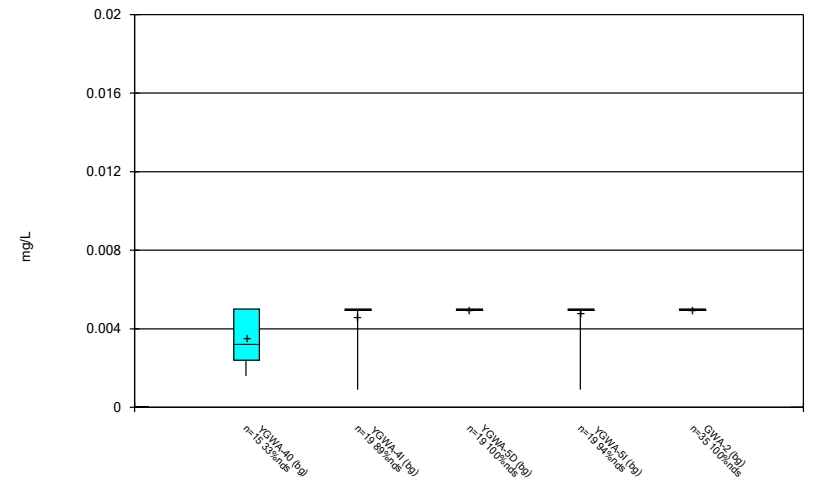
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Box & Whiskers Plot



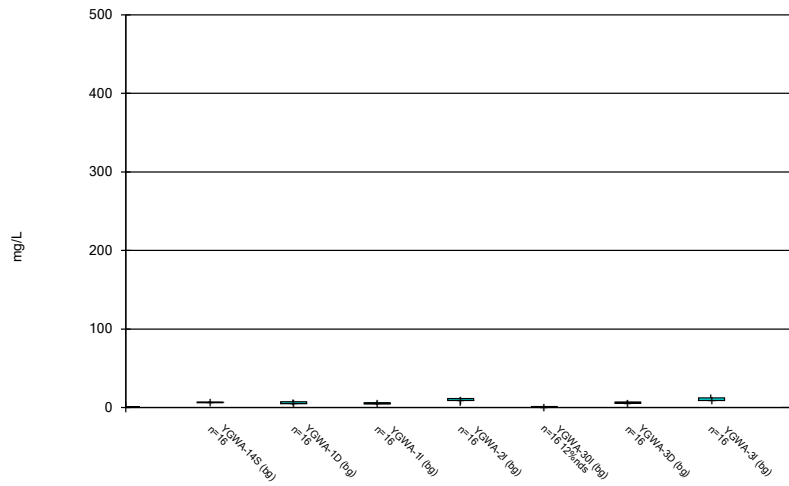
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Box & Whiskers Plot



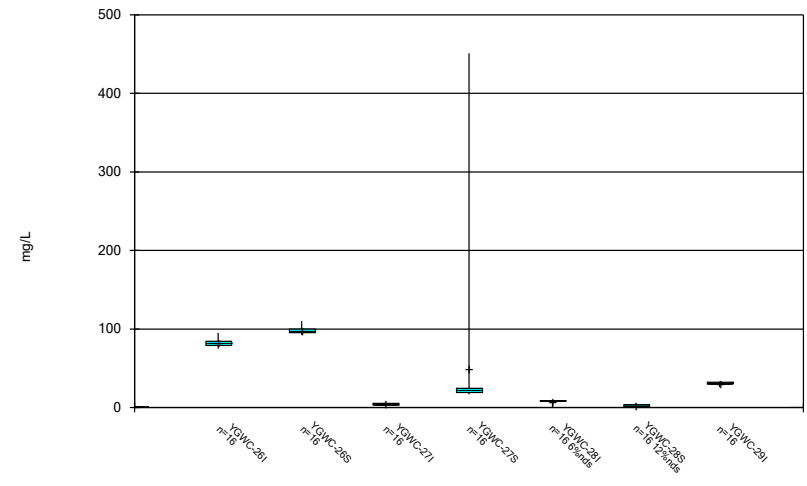
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Box & Whiskers Plot



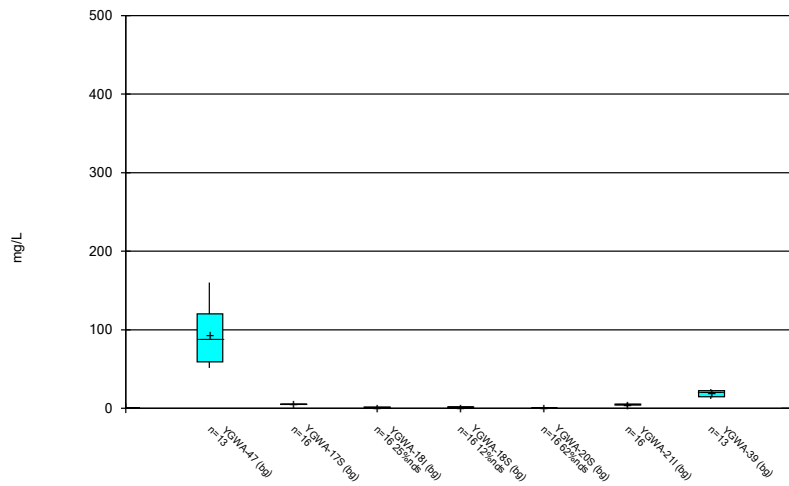
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Box & Whiskers Plot



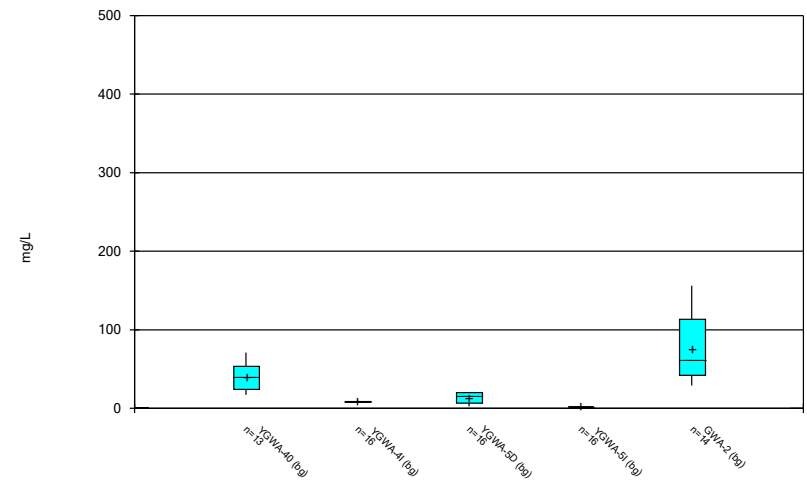
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Box & Whiskers Plot



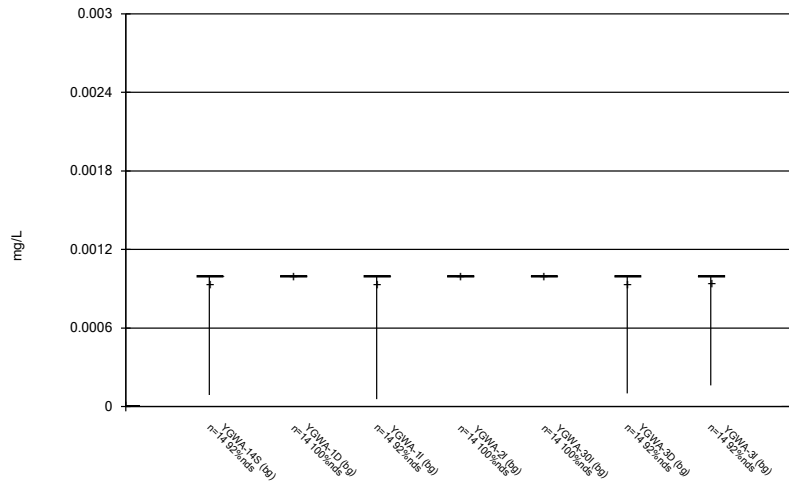
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Box & Whiskers Plot



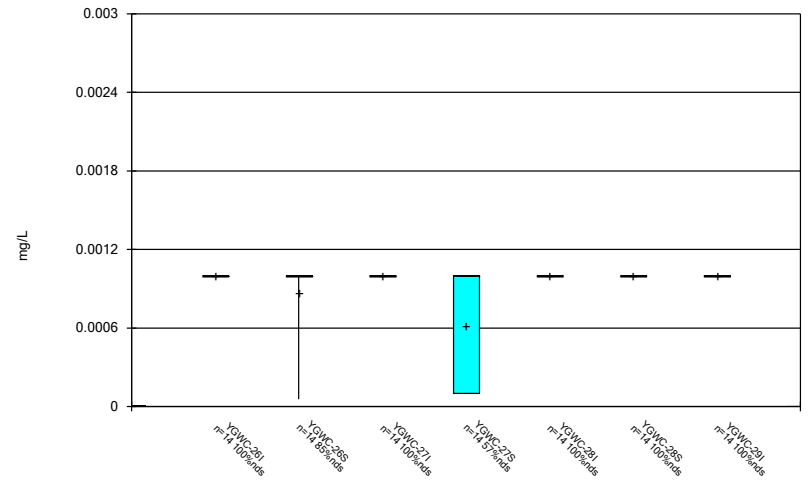
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Box & Whiskers Plot



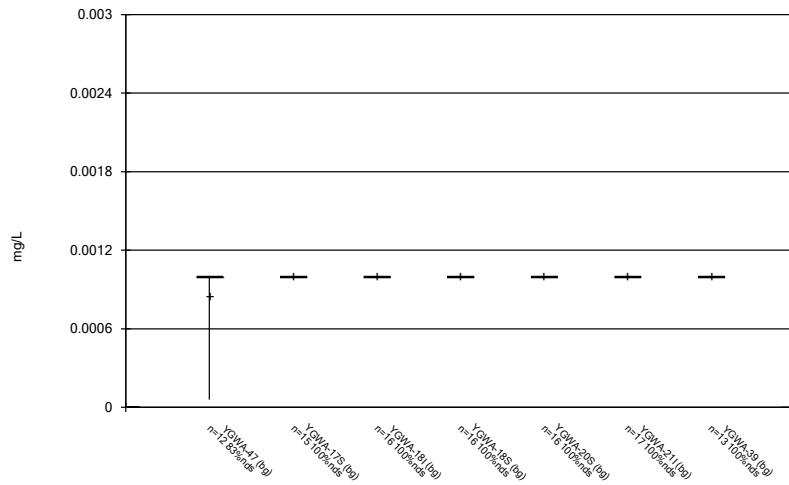
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Box & Whiskers Plot



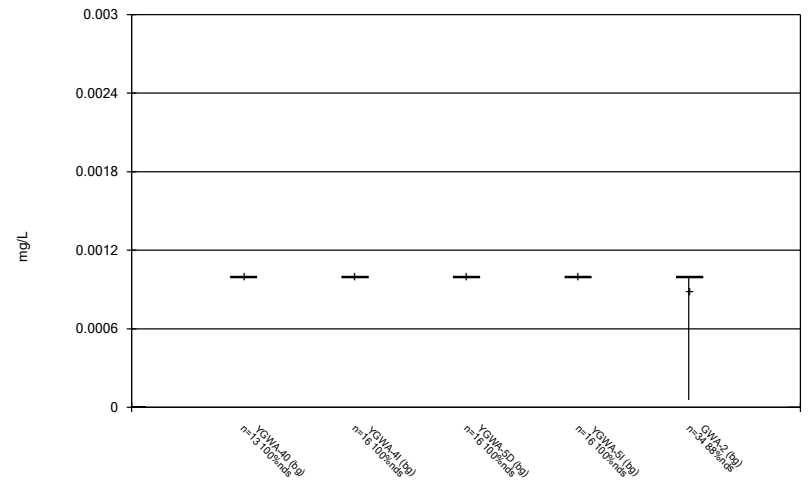
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Box & Whiskers Plot



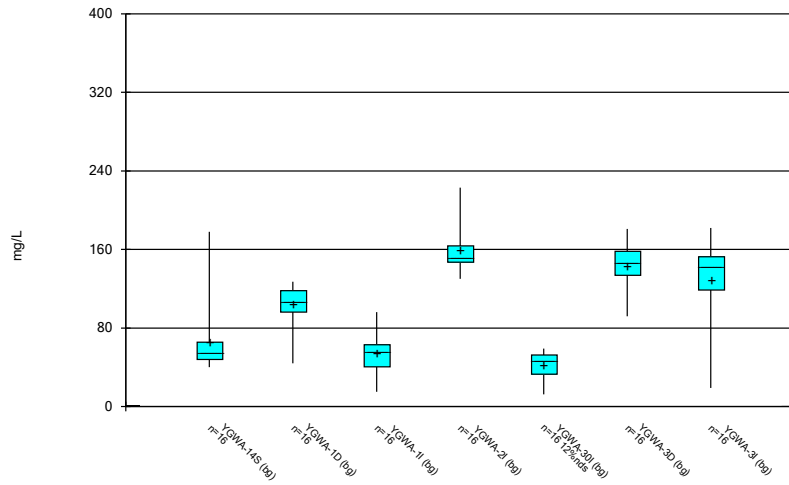
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Box & Whiskers Plot



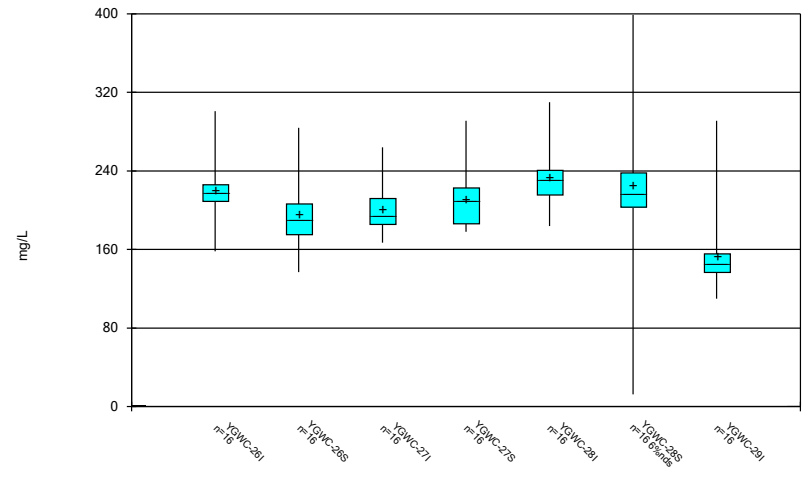
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



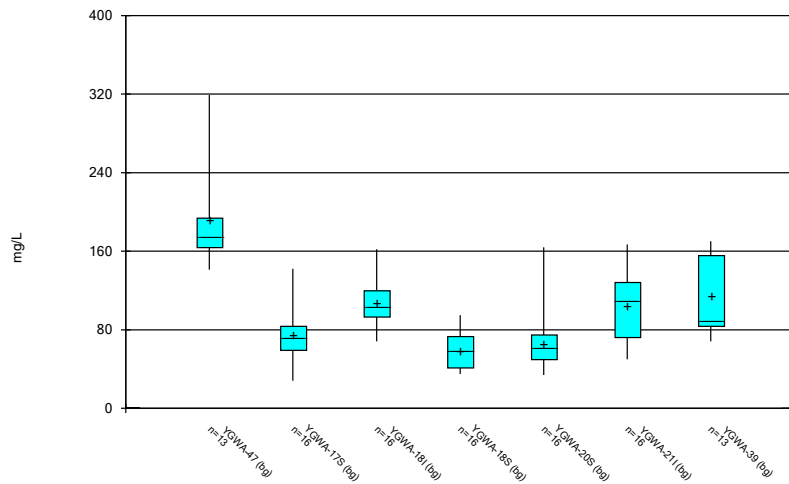
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Box & Whiskers Plot



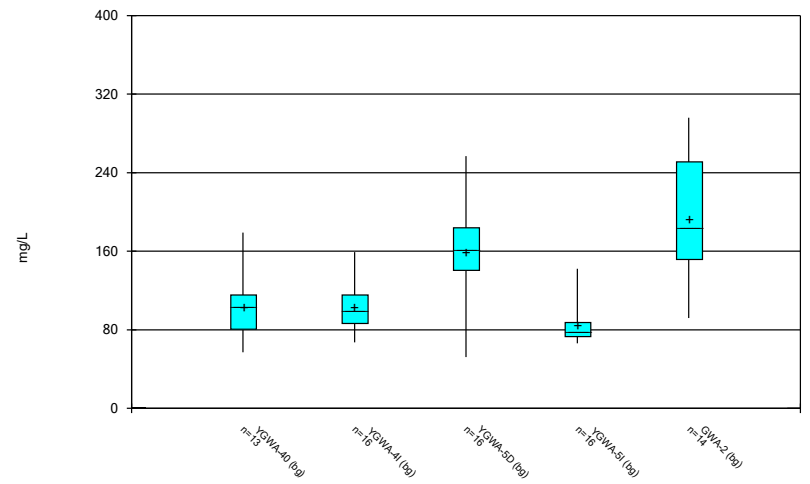
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Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:46 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:46 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 5/10/2021, 3:48 PM

	GWA-2 Cobalt (mg/L)	YGWC-261 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)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/10/2021, 3:51 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	3/3/2021	0.69	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	3/2/2021	0.57	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	3/3/2021	2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	3/3/2021	1.2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	3/3/2021	1.8	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	3/3/2021	2.3	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	3/3/2021	0.62	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	7.9	n/a	3/3/2021	16.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	7.9	n/a	3/2/2021	13.2	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	7.9	n/a	3/3/2021	13	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	7.9	n/a	3/3/2021	14.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	7.9	n/a	3/3/2021	18	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	3/3/2021	451	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

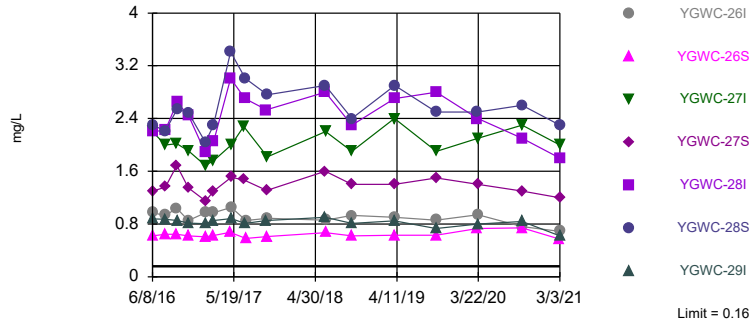
Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/10/2021, 3:51 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	3/3/2021	0.69	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	3/2/2021	0.57	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	3/3/2021	2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	3/3/2021	1.2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	3/3/2021	1.8	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	3/3/2021	2.3	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	3/3/2021	0.62	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	3/3/2021	16.1	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	3/2/2021	12.9	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	3/3/2021	25.7	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	3/3/2021	30.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	3/3/2021	30.9	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	3/3/2021	28.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	3/3/2021	9.5	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	7.9	n/a	3/3/2021	16.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	7.9	n/a	3/2/2021	13.2	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	7.9	n/a	3/3/2021	13	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	7.9	n/a	3/3/2021	4	No	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	7.9	n/a	3/3/2021	14.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	7.9	n/a	3/3/2021	18	Yes	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	7.9	n/a	3/3/2021	6.7	No	293	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	3/3/2021	0.05J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	3/2/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	3/3/2021	0.058J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	3/3/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	3/3/2021	0.072J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	3/3/2021	0.13	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	3/3/2021	0.056J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.86	3/3/2021	5.93	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.86	3/2/2021	5.38	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.86	3/3/2021	6.43	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.86	3/3/2021	6.35	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.86	3/3/2021	6.51	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.86	3/3/2021	6.61	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.86	3/3/2021	6.27	No	373	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	3/3/2021	89.3	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	3/2/2021	92.7	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	3/3/2021	2.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	3/3/2021	451	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	3/3/2021	8.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	3/3/2021	4.9	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	3/3/2021	26.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	218.8	n/a	3/3/2021	205	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	218.8	n/a	3/2/2021	154	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	218.8	n/a	3/3/2021	173	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	218.8	n/a	3/3/2021	178	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	218.8	n/a	3/3/2021	184	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	218.8	n/a	3/3/2021	217	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	218.8	n/a	3/3/2021	110	No	293	10.01	2.574	0.6826	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

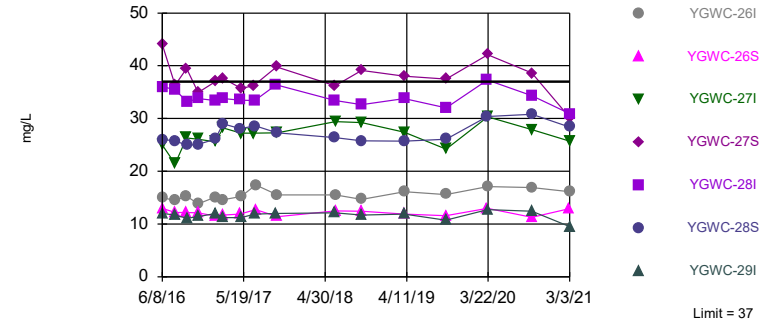


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 293 background values. 45.73% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 5/10/2021 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit Interwell Non-parametric

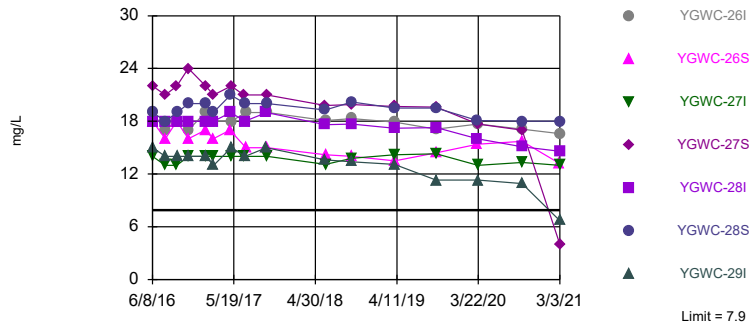


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 293 background values. 1.024% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 5/10/2021 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28I, YGWC-28S

Prediction Limit Interwell Non-parametric



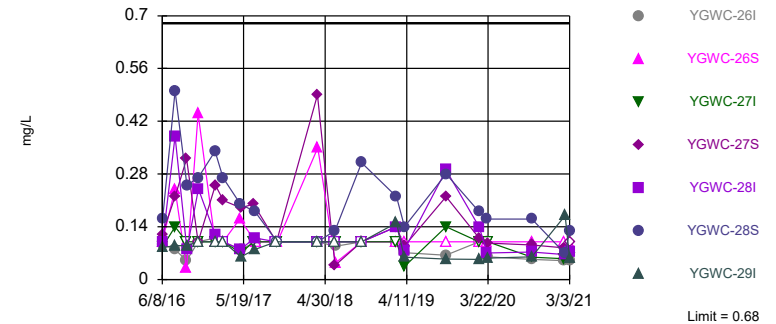
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 293 background values. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 5/10/2021 3:49 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

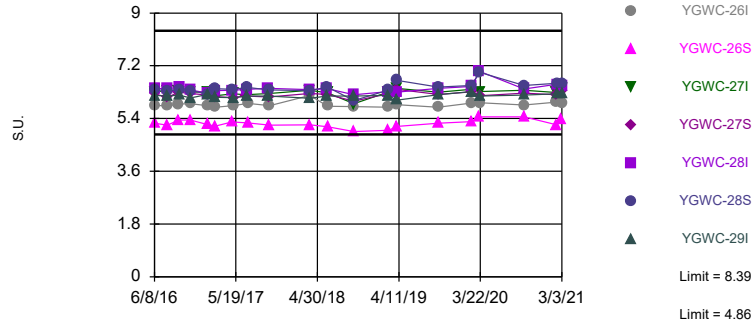


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 362 background values. 68.51% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 5/10/2021 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limits

Prediction Limit
Interwell Non-parametric



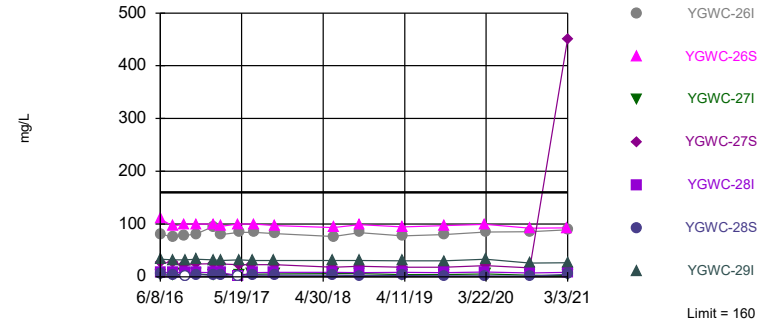
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 373 background values. Annual per-constituent alpha = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 5/10/2021 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-27S

Prediction Limit
Interwell Non-parametric



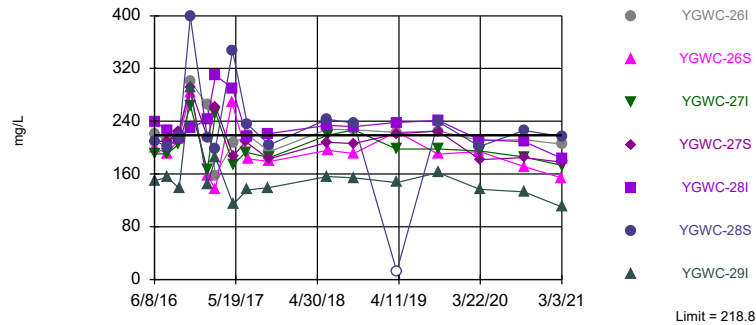
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 293 background values. 6.143% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 5/10/2021 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.01, Std. Dev.=2.574, n=293, 0.6826% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.97, 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 5/10/2021 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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)	0.0097 (J)	0.0052 (J)	<0.04	0.0047 (J)		0.0177 (J)
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				0.0071 (J)	0.01 (J)	<0.04		
9/15/2016				0.0102 (J)					0.0214 (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			<0.04				<0.04	0.0161 (J)
4/27/2017		<0.04	0.0066 (J)						
4/28/2017									
5/1/2017					0.0061 (J)		<0.04		
5/2/2017						<0.04			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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								<0.04	0.0173 (J)
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							<0.04		0.0173 (J)
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				0.004 (J)		<0.04	0.0045 (J)		
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					0.01 (J)	0.0057 (J)	0.005 (J)		
10/1/2018	<0.04	0.0049 (J)	0.021 (J)	<0.04					0.015 (J)
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 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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	<0.04	0.008 (J)					
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 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			<0.04	0.0074 (J)	<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)		<0.04	0.0077 (J)					
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)	<0.04	0.0096 (J)	0.0054 (J)				
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 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			<0.04	0.0081 (J)			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)	<0.04	0.0092 (J)	0.016 (J)				
3/25/2020									
9/22/2020									
9/23/2020	0.006 (J)	0.021 (J)		0.0066 (J)					
9/24/2020			0.0094 (J)		0.013 (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	<0.04	0.01 (J)		1.2	0.69		2
3/4/2021					0.0079 (J)				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWC-28S	YGWC-28I	YGWC-29I	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		2.7	0.811					
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		2.53	0.851					
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		2.7	0.85					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWC-28S	YGWC-28I	YGWC-29I	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	2.1	0.84				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	1.8	0.62			<0.04		
3/4/2021							0.033 (J)	0.078

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
6/1/2016	21	2.5	12						
6/2/2016				28	33	2.4	8.8	1.3	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	24.5	32.3	2.12	7.69		1.24
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				31	2.18	8.49		
9/15/2016				27					1.17
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					30.9		7.83		1.23
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			30.4				1.03	1.14
4/27/2017		2.38	11.1						
4/28/2017									
5/1/2017					37		13.4		
5/2/2017						2.17			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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								1.13	1.24
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							9.29		1.11
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				29.1		2.3	8.2		
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					25.8	2.3	9.5 (J)		
10/1/2018	19.7	1.8	15.1	26.9					0.99
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 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			2.3	2.2	3.7				
6/8/2016						44	15	13	25
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2.08	2					
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	1.97		3.17				
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			2.45		4.98				
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			2.48		6.28				
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28	2.3		6.65				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				1.95					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			2.54	2.02	6.04				
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		2.25	2.03					
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	2.3	2.1	10.4 (J)				
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 5/10/2021 3:51 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			2.4	2.6			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	2.6	2.7	6				
3/25/2020									
9/22/2020									
9/23/2020	0.91 (J)	5.2		2.6					
9/24/2020			2.6		7.8	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	2.4	2.5		30.2	16.1		25.7
3/4/2021					8.7				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWC-28S	YGWC-28I	YGWC-29I	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		33.4	11.9					
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		36.4	12					
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		33.8	11.9 (J)					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				1.4	7.2	4.3	3.7	1.9	4.1
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	1.6	6.6	4.4	3.6		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				6.6	3.8	3.4		
9/15/2016				1.5					4.2
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					7.6		4.5		4.9
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			1.2				1.7	4.1
4/27/2017		1.3	1						
4/28/2017									
5/1/2017					7.2		4.3		
5/2/2017						4.6			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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								1.8	3.7
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							4.7		3.8
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				1.2		4.5	4.4		
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	5.1	4.8		
10/1/2018	1.2	1.4	1.1	1.5					3.8
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 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			1.9	4.5	2.8				
6/8/2016						22	19	18	14
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	1.9	4.5					
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	1.9		2.4				
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			2.3		2.5				
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			1.9		2.1				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7	2		2.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				4.6					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			2.6	4.5	2.8				
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		2.6	4.7					
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	3.6	5.6	2.2				
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 5/10/2021 3:51 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			2.8	5.7			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	2.7	5	2.8				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2		6.6					
9/24/2020			2.7		2	17	17.1	15.7	13.3
9/25/2020									
3/1/2021									
3/2/2021								13.2	
3/3/2021	7.2	7	2.7	7.1		4	16.6		13
3/4/2021					1.8				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWC-28S	YGWC-28I	YGWC-29I	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		18	14					
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		19	15					
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		17.2	13.1					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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	15.1	10.9				2.7	5
9/25/2020								
3/1/2021				3.7				
3/2/2021					4.1			
3/3/2021	18	14.6	6.7			0.86 (J)		
3/4/2021							4.9	4.9

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)
6/1/2016	0.12 (J)	<0.1	0.15 (J)						
6/2/2016				0.11 (J)	<0.1	<0.1	0.62	<0.1	<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)			0.05 (J)		<0.1	0.49	<0.1	0.02 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	0.11 (J)	<0.1							
9/14/2016			0.18 (J)	0.04 (J)		<0.1		<0.1	
9/15/2016							0.54		<0.1
9/16/2016									
9/19/2016					<0.1				
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	0.05 (J)		0.09 (J)				0.49		
1/12/2017				0.04 (J)				<0.1	
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	0.04 (J)	0.01 (J)							
4/28/2017									
5/1/2017				<0.1		<0.1			
5/2/2017								<0.1	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5I (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	0.48	<0.1	
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 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-26S
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						0.094 (J)	0.086 (J)	0.12 (J)	<0.1
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						0.08 (J)	0.14 (J)	0.22 (J)	0.24 (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	0.02 (J)		<0.1				
9/20/2016						0.05 (J)	<0.1	0.32	0.03 (J)
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						<0.1 (*)	<0.1 (*)	<0.1 (*)	0.44
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						0.11 (J)	<0.1 (*)		<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	0.04 (J)		<0.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				<0.1					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-26S
2/27/2019						<0.1	<0.1	0.14 (J)	<0.1
3/4/2019									
3/5/2019	<0.1		0.32	<0.1	<0.1				
3/6/2019		<0.1							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							0.034 (J)	0.088 (J)	
4/2/2019			0.12 (J)	<0.1		0.071 (J)			<0.1
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	0.064 (J)			<0.1
9/26/2019	<0.1	<0.1					0.14 (J)	0.22 (J)	
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020	<0.1	<0.1		<0.1					
2/12/2020			0.1 (J)		<0.1				
2/13/2020						<0.1	<0.1	0.11 (J)	<0.1
3/17/2020									
3/18/2020									
3/19/2020									<0.1
3/20/2020						0.06 (J)	<0.1	0.097 (J)	
3/24/2020	<0.1	<0.1	0.081 (J)	<0.1	<0.1				
3/25/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	<0.1	<0.1		<0.1					
9/24/2020			0.079 (J)		<0.1	0.053 (J)	0.059 (J)	0.092 (J)	<0.1
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	0.092 (J)		<0.1				
2/10/2021						0.05 (J)	0.055 (J)	0.084 (J)	<0.1
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	0.05 (J)	0.058 (J)	<0.1	
3/4/2021			0.091 (J)						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWC-28I	YGWC-28S	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.14 (J)	0.22 (J)	0.15 (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)	0.18 (J)	0.053 (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)	0.16	0.06 (J)				<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		0.069 (J)	0.17					
3/1/2021				<0.1				
3/2/2021					0.073 (J)			
3/3/2021	0.072 (J)	0.13	0.056 (J)			0.085 (J)		
3/4/2021							<0.1	<0.1

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 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-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (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	5.84	
10/1/2018		7.47	6.8	5.9		5.39			7.39
10/2/2018					5.39				
10/3/2018									
2/25/2019	6.51								
2/26/2019					5.77	5.46			
2/27/2019		7.54	6.84	5.8					7.55
3/4/2019							5.75	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			5.62				7.87
4/2/2019									
4/3/2019							5.63	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		
9/25/2019		7.47			5.69	5.19		6.2	7.64
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					5.8	5.48	5.83	6.15	7.83
2/13/2020									
3/17/2020	6.14								
3/18/2020				6.19		5.38			
3/19/2020		7.31	7.03		6				7.65
3/20/2020									
3/24/2020							5.81		
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	5.8	
9/23/2020		7.37	7.15	6.01					7.57
9/24/2020					5.67				
9/25/2020						5.44			
2/8/2021							5.67		
2/9/2021								6.06	
2/10/2021		7.58				5.35			7.81

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26S	YGWC-26I
2/24/2017									
3/1/2017		5.94	5.41						
3/2/2017				5.54					
3/3/2017									
3/6/2017					6.34	5.63			
3/7/2017	7.43								
3/8/2017									
4/26/2017		5.99	5.4		6.32	5.66			
4/27/2017									
4/28/2017									
5/1/2017	7.22								
5/2/2017				5.47					
5/3/2017								5.28	
5/5/2017									
5/8/2017							6.11		5.84
5/26/2017									
6/27/2017	7.32								
6/28/2017		6	5.36						
6/29/2017				5.56	6.47	5.85			
6/30/2017							6.17		
7/5/2017									
7/7/2017									
7/10/2017								5.25	5.92
7/11/2017									
7/17/2017									
10/3/2017	7.48				6.56				
10/4/2017			5.32	5.57		5.83			
10/5/2017		6.11							
10/6/2017							6.13		
10/9/2017									
10/10/2017								5.17	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									
3/28/2018		6.1	5.34	5.59					
3/29/2018	7.02				6.75	5.93	6.25		
3/30/2018								5.19	6.19
4/2/2018									
4/3/2018									
6/5/2018					6.09				
6/6/2018	7.43					5.86			
6/7/2018		5.98							
6/8/2018									
6/11/2018			5.28	5.58					
6/12/2018							6.22		
6/13/2018								5.12	5.82

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26S	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	6.67	5.84			
9/26/2018	7.13								
10/1/2018									
10/2/2018							5.99	4.95	5.81
10/3/2018									
2/25/2019									
2/26/2019									
2/27/2019							6.26	5	5.79
3/4/2019	7.46								
3/5/2019			5.26	5.48	7.22	6.07			
3/6/2019		5.99							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							6.4		
4/2/2019				5.74	6.94			5.13	5.87
4/3/2019	7.11	6.29	5.47			5.71			
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	6.93				6.87				
9/25/2019				5.49		5.86		5.24	5.79
9/26/2019		6.04	5.2				6.22		
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		6.07	5.3	5.58					
2/12/2020	7.52				7.13	6			
2/13/2020							6.31	5.29	5.93
3/17/2020									
3/18/2020									
3/19/2020								5.46	
3/20/2020							6.18		5.94
3/24/2020	7.34	5.98	5.33	5.57	6.35	5.86			
3/25/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020	7.19								
9/23/2020		6.01	5.29	5.58					
9/24/2020					6.7	5.8	6.27	5.46	5.86
9/25/2020									
2/8/2021									
2/9/2021		6.12	5.43		6.95	5.86			
2/10/2021							6.21	5.18	5.96

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26S	YGWC-26I
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021	7.15							5.38	
3/3/2021		5.89	5.31	5.52		5.89	6.35		5.93
3/4/2021					6.8				

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I	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	6.32							
6/9/2016		6.42	6.39	6.19				
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016	6.34							
8/2/2016		6.43	6.35	6.17				
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	6.36							
9/21/2016		6.45	6.39	6.2				
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016							7.12	
11/7/2016	6.3		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	6.31	6.27	6.23					
1/19/2017				6.22				
2/21/2017			6.42					
2/22/2017		6.35		6.12				
2/23/2017	6.18							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I	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								
5/5/2017		6.36	6.4					
5/8/2017	6.24			6.11	5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017	6.21							
7/5/2017		6.4		6.17				
7/7/2017			6.46					
7/10/2017								
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017		6.43		6.17				
10/6/2017								
10/9/2017	6.26		6.37					
10/10/2017					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	6.36			6.09				
3/30/2018		6.39	6.35					
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		6.42	6.47					
6/13/2018	6.28							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I	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	5.9			6.17				
10/3/2018		6.21	6.01					
2/25/2019								
2/26/2019								
2/27/2019	6.31	6.32	6.38	6.19		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	6.43	6.3		6.03				
4/2/2019			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				6.21				
9/26/2019	6.3	6.43	6.47					
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	6.4	6.49	6.53	6.32				
3/17/2020					5.57			
3/18/2020								
3/19/2020		7.01	6.98			7.22		
3/20/2020	6.32			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	6.36	6.41	6.53	6.2			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	6.29					7.29	5.8	5.19

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
6/1/2016	12	4.2	5						
6/2/2016				5.8	20	1.9	8	1.3	6.6
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	6.7	20	1.8	7.7		6.1
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				19	1.8	7.5		
9/15/2016				6					6.1
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					20		8.2		6.3
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			5.1				1.4	7
4/27/2017		7.4	5.2						
4/28/2017									
5/1/2017					20		8.4		
5/2/2017						2			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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								<1	6.5
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							9.6		7.9
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				6.7		2	8.5		
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					7.9	2.3	10.2		
10/1/2018	9.1	4	5.6	7.1					6.8
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 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			<1	4.4	5.2				
6/8/2016						26	81	110	3.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	0.08 (J)	4.7					
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	0.08 (J)		4.8				
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			<1		4.3				
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			<1		4.5				
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6	<1		4.9				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			<1	5.2	5.5				
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		<1	5.3					
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	0.13 (J)	6.1	7				
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 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			<1	5.5			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	<1	5.4	3				
3/25/2020									
9/22/2020									
9/23/2020	1.1	0.53 (J)		5.1					
9/24/2020			<1		3.6	16.6	85.6	92.3	3
9/25/2020									
3/1/2021									
3/2/2021								92.7	
3/3/2021	1	<1	<1	5.2		451	89.3		2.6
3/4/2021					4.5				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWC-28S	YGWC-28I	YGWC-29I	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		8.1	31					
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		8.6	31					
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		8.2	30.4					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
6/1/2016	150	54	120						
6/2/2016				130	160	66	96	36	46
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	135	48						50	
7/26/2016			94	141	177	78	92		54
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				187	73	102		
9/15/2016				153					54
9/16/2016									
9/19/2016								35	
9/20/2016									
9/21/2016									
11/1/2016	75		44	92				<25	
11/2/2016					181		115		71
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			181				55	52
4/27/2017		31	116						
4/28/2017									
5/1/2017					165		107		
5/2/2017						103			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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								42	45
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							95		40
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				95		142	90		
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					144	86	116		
10/1/2018	138	60	117	165					50
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 5/10/2021 3:51 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			38	28	60				
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	45		68				
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			46		76				
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			164		167				
3/7/2017									
3/8/2017									
4/26/2017	36	162	34		50				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				142					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			68	53	94				
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		54	61					
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	73	86	122				
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 5/10/2021 3:51 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			75	81			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	76	71	117				
3/25/2020									
9/22/2020									
9/23/2020	81	103		99					
9/24/2020			69		113	185	212	171	186
9/25/2020									
3/1/2021									
3/2/2021								154	
3/3/2021	37	95	53	57		178	205		173
3/4/2021					110				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

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

	YGWC-28S	YGWC-28I	YGWC-29I	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		217	136					
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		221	139					
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		238	147					

FIGURE E.

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-21I (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.8658	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28I	-0.3155	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

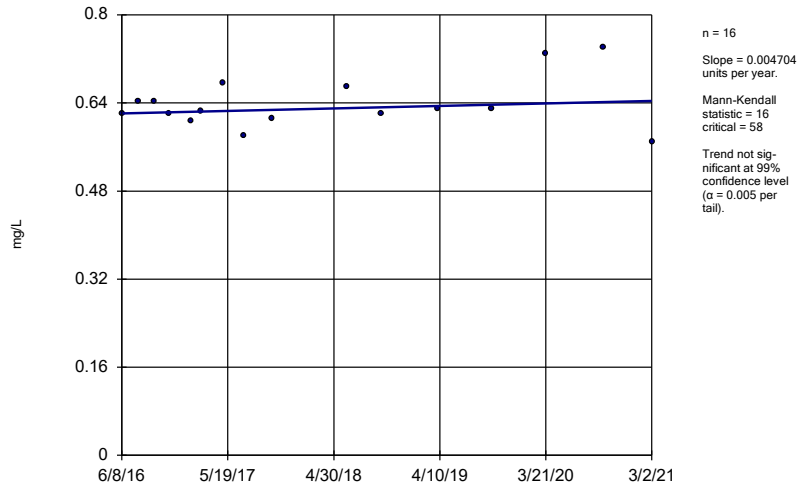
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.00131	-37	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0	-2	-58	No	16	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-23	-58	No	16	68.75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21 (bg)	0	-18	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-28	-58	No	16	81.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-23	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.03933	-44	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.004704	16	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.03779	17	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	0	-4	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0.006966	2	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.04804	17	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02029	-52	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.001291	-39	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	-0.0002497	-11	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-34	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	-0.0003285	-14	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-15	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.002402	14	43	No	13	7.692	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.02279	-41	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-17	-58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0001974	12	58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	-0.0019	-46	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	5	48	No	14	57.14	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1626	30	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.02735	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-11 (bg)	-0.02869	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21 (bg)	-0.05296	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.2376	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.8658	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27I	0	-5	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28I	-0.3155	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	-0.1389	-15	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.05099	35	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2082	50	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1117	-28	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.2329	13	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.1751	26	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.1099	36	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1272	29	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.09469	17	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-11 (bg)	-0.2947	-23	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21 (bg)	0.1728	11	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.08892	-28	-58	No	16	12.5	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results Page 2

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

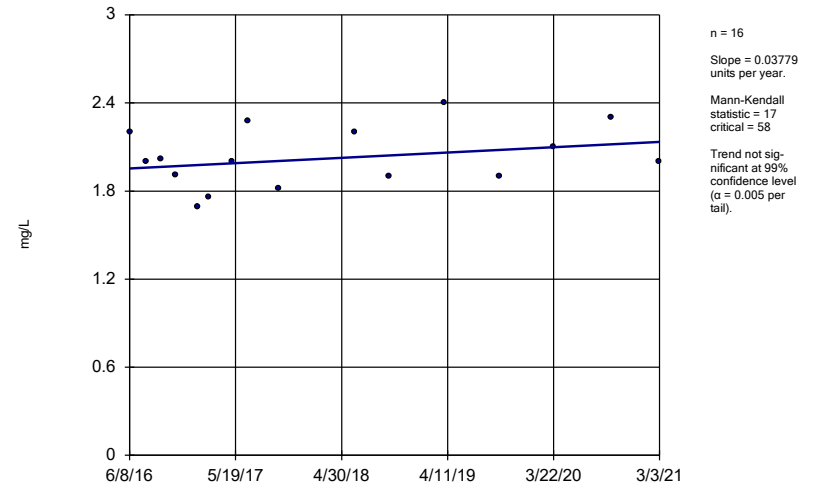
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	YGWA-3D (bg)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6094	45	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-27S	-1.986	-54	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.1322	51	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.2007	-54	-58	No	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1939	-48	-58	No	16	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	24	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2852	-25	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.1751	39	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP

Sen's Slope Estimator YGWC-26S



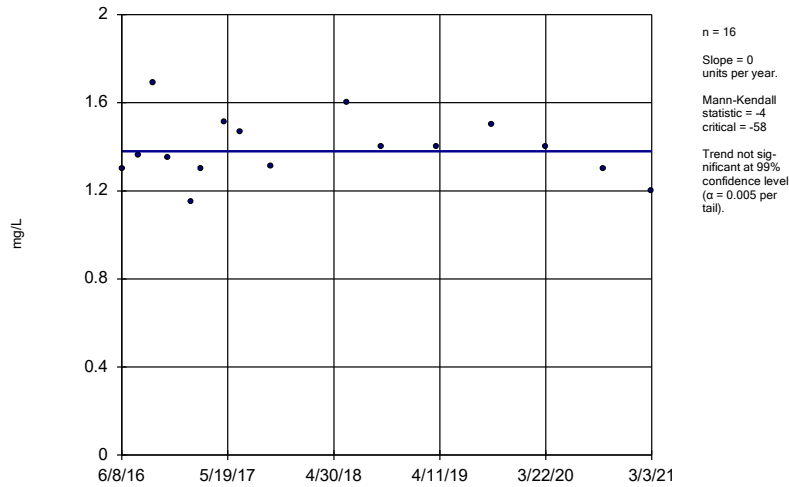
Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



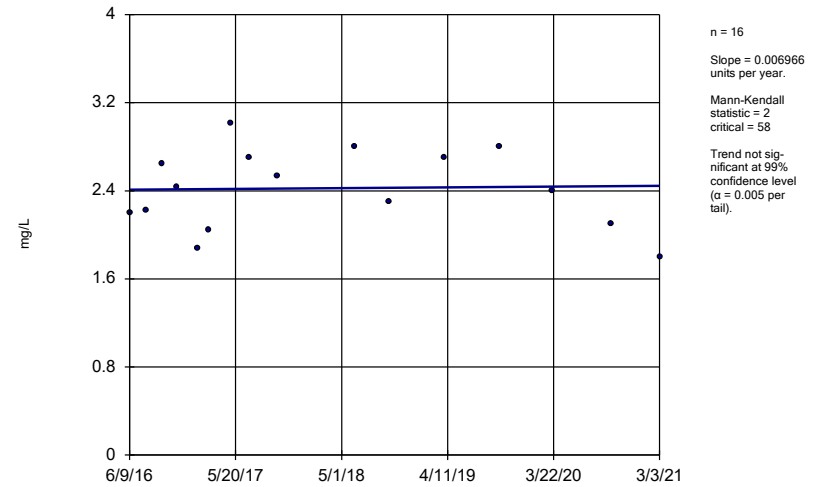
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



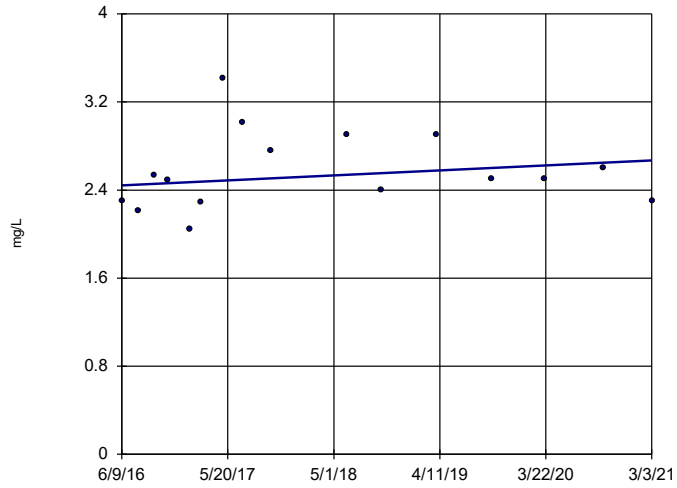
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

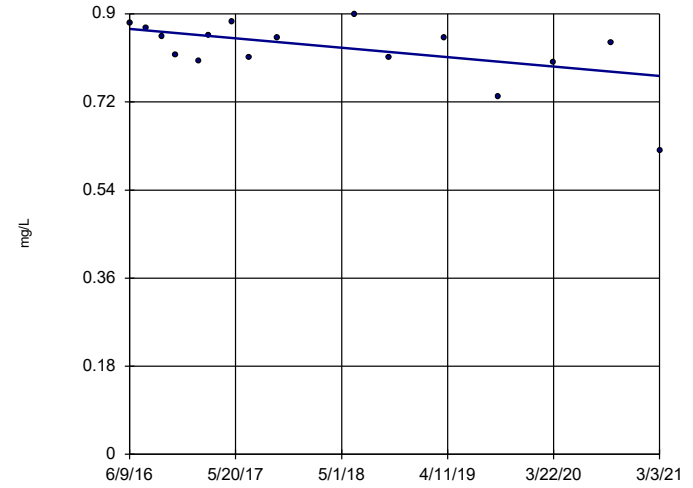
Sen's Slope Estimator
YGWC-28S



n = 16
Slope = 0.04804 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 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

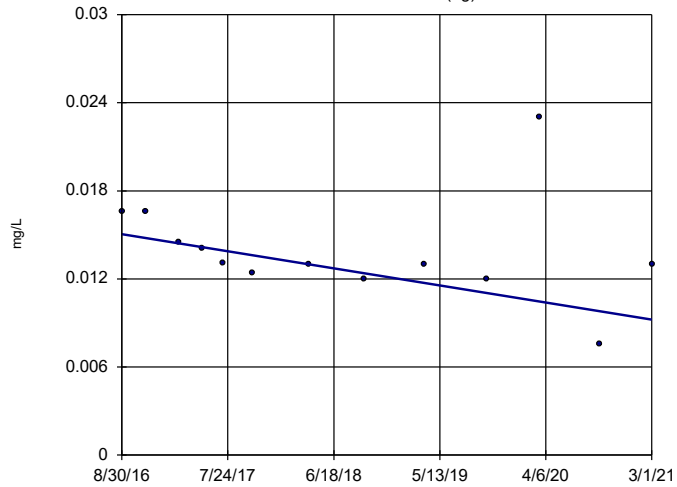
Sen's Slope Estimator
YGWC-29I



n = 16
Slope = -0.02029 units per year.
Mann-Kendall statistic = -52
critical = -58
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

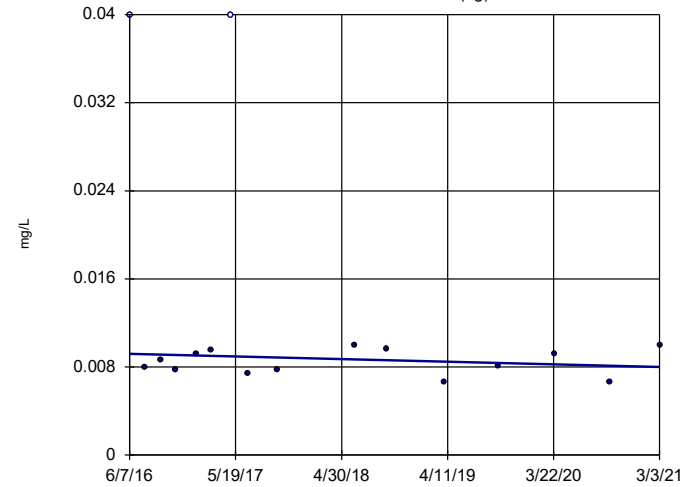
Sen's Slope Estimator
YGWA-47 (bg)



n = 13
Slope = -0.001291 units per year.
Mann-Kendall statistic = -39
critical = -43
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-17S (bg)

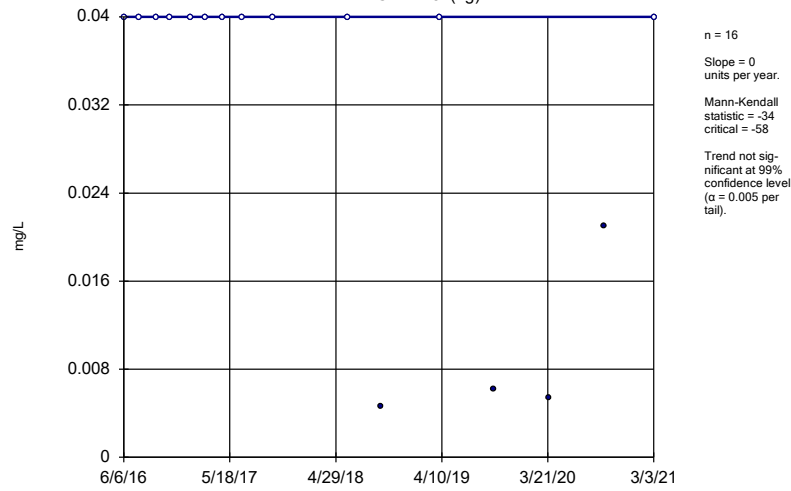


n = 16
Slope = -0.0002497 units per year.
Mann-Kendall statistic = -11
critical = -58
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

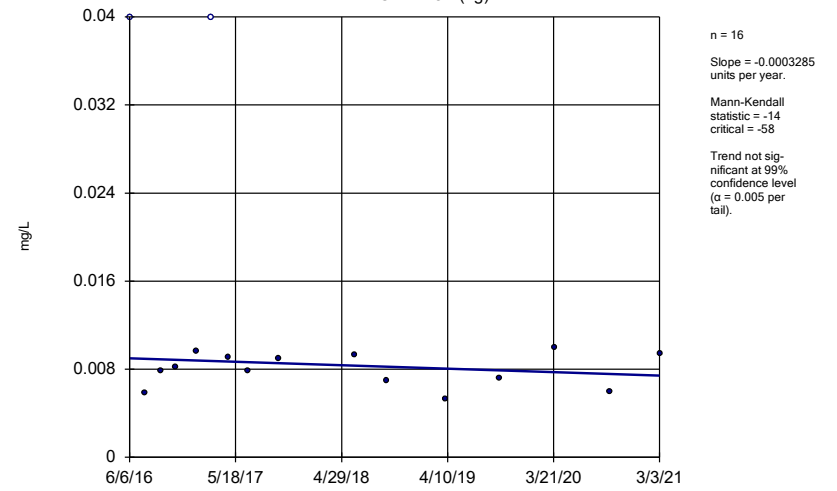
YGWA-18I (bg)



Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

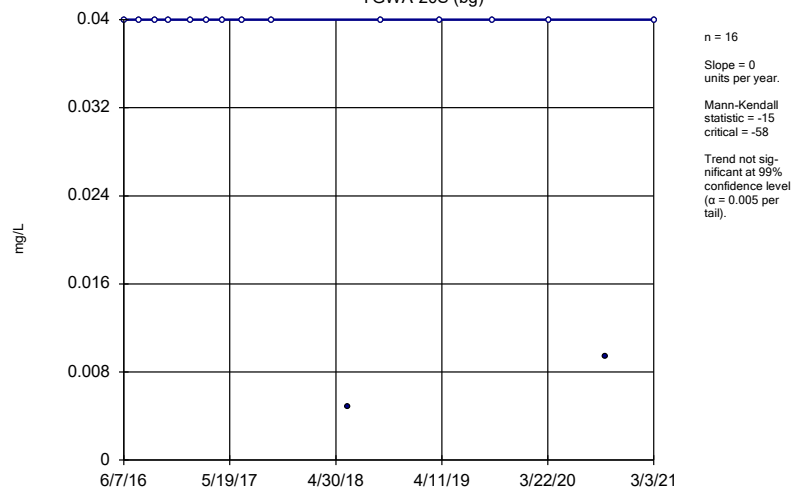
YGWA-18S (bg)



Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

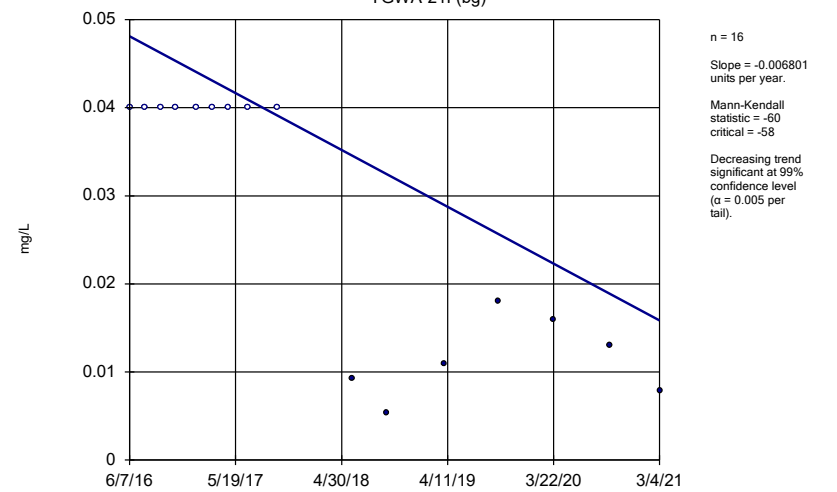
YGWA-20S (bg)



Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

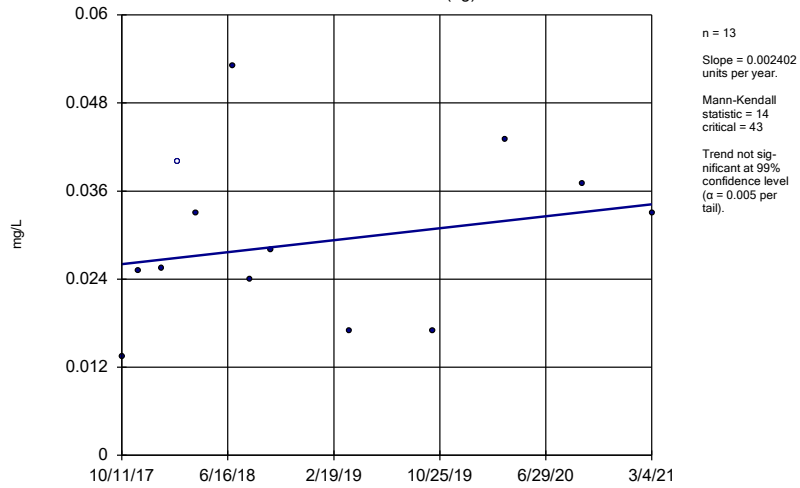
Sen's Slope Estimator

YGWA-21I (bg)



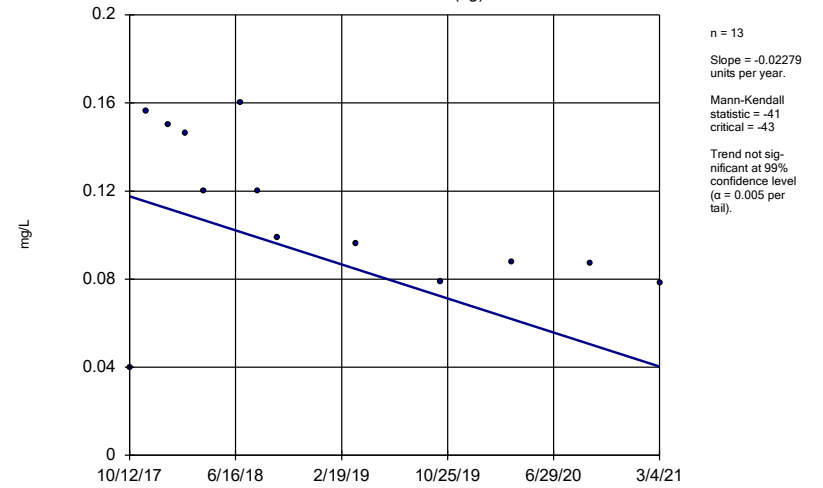
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-39 (bg)



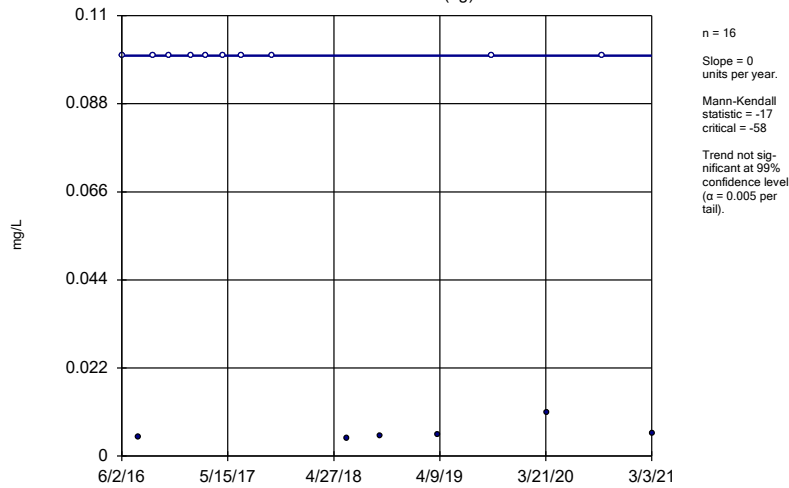
Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-40 (bg)



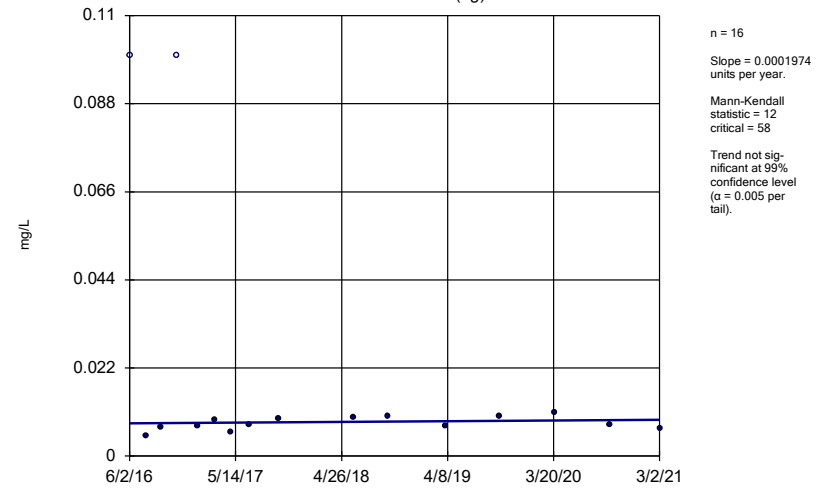
Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-41 (bg)



Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

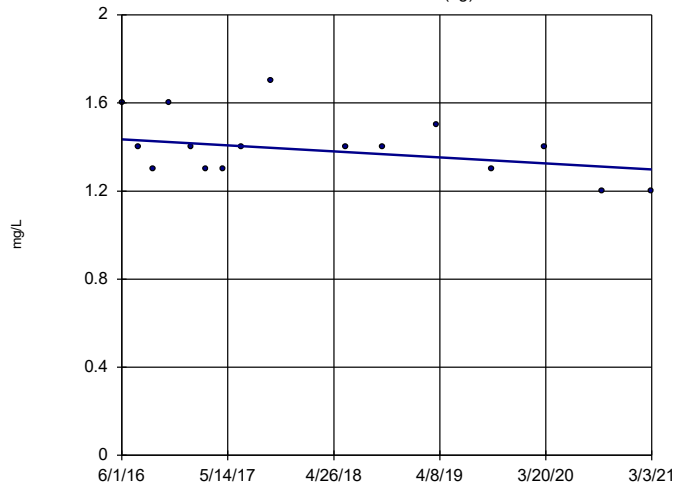
Sen's Slope Estimator
YGWA-5D (bg)



Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

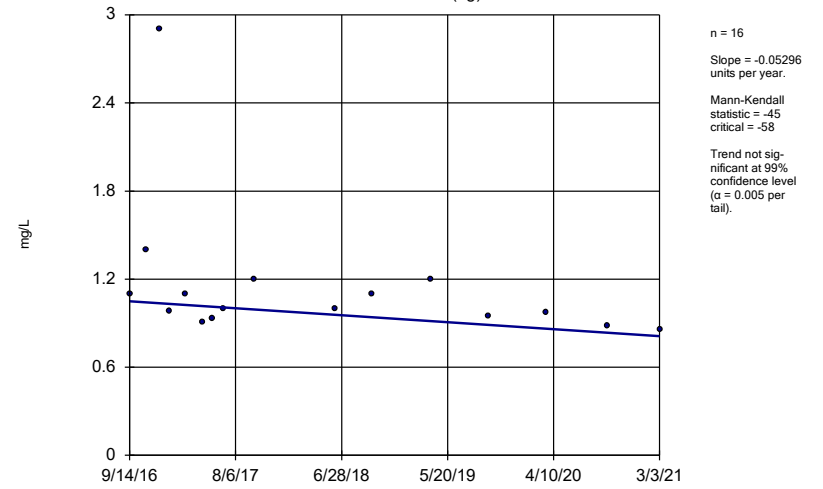
YGWA-11 (bg)



Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

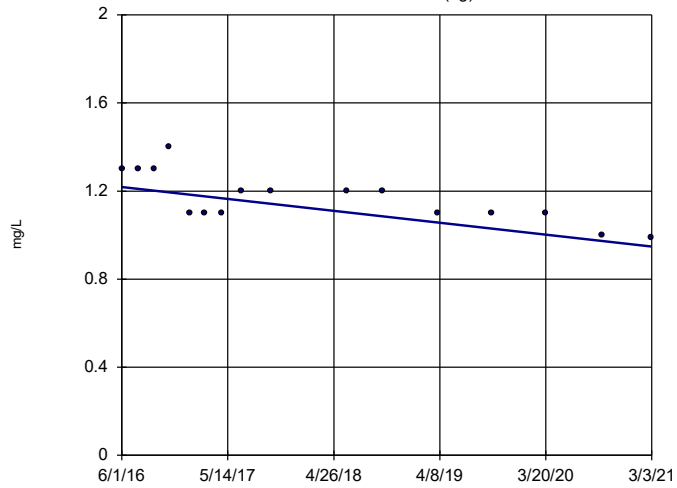
Sen's Slope Estimator

YGWA-21 (bg)



Sen's Slope Estimator

YGWA-3I (bg)

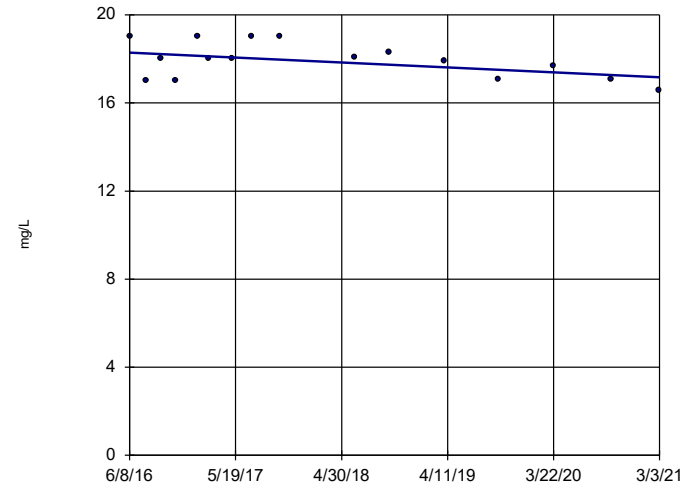


n = 16
 Slope = -0.05699 units per year.
 Mann-Kendall statistic = -66
 critical = -58
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26I

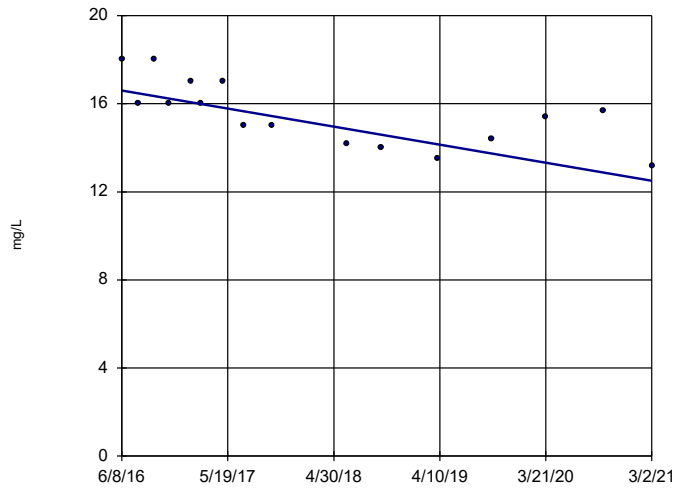


n = 16
 Slope = -0.2376 units per year.
 Mann-Kendall statistic = -33
 critical = -58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S

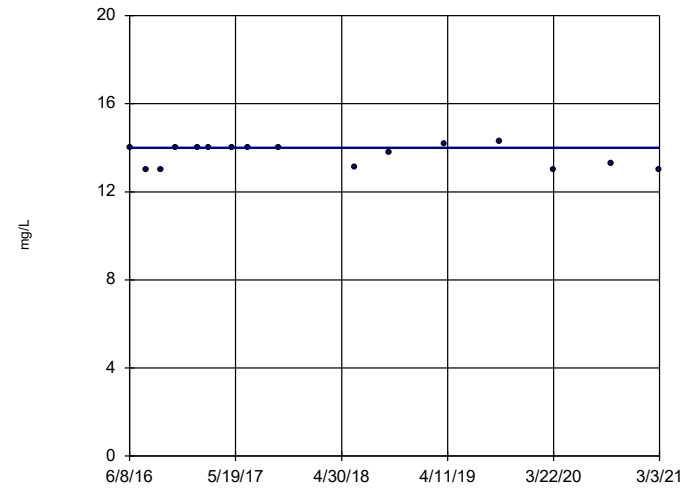


n = 16
 Slope = -0.8658 units per year.
 Mann-Kendall statistic = -70
 critical = -58
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

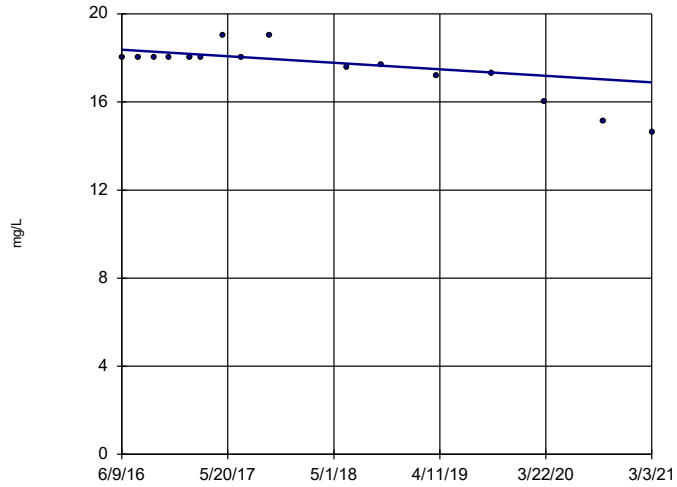
Sen's Slope Estimator

YGWC-27I



Sen's Slope Estimator

YGWC-28I

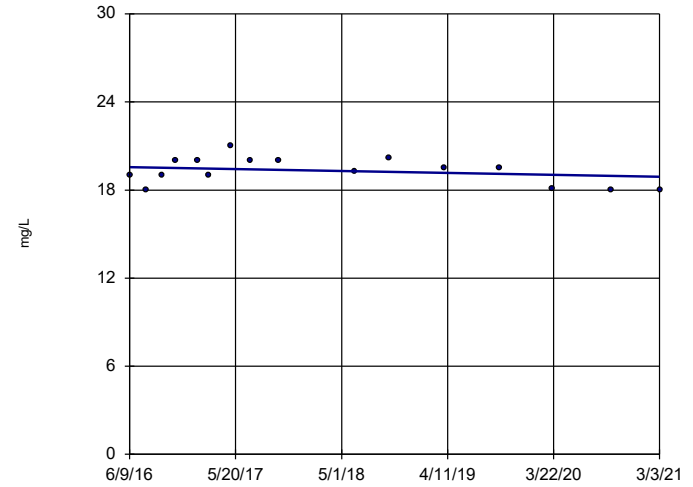


n = 16
 Slope = -0.3155 units per year.
 Mann-Kendall statistic = -68
 critical = -58
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

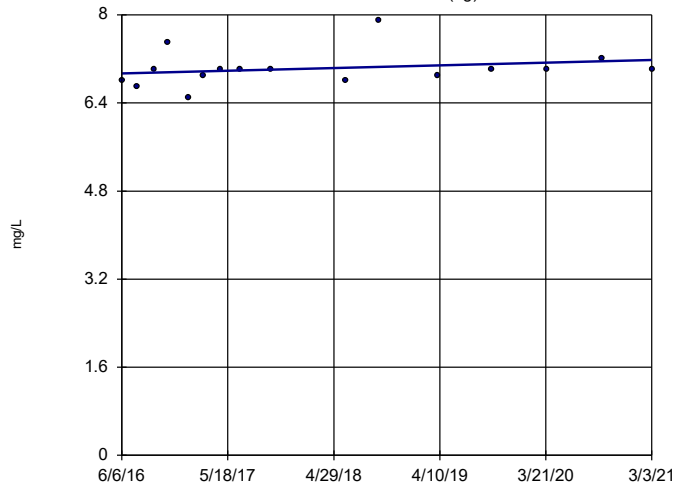
Sen's Slope Estimator

YGWC-28S



Sen's Slope Estimator

YGWA-18I (bg)

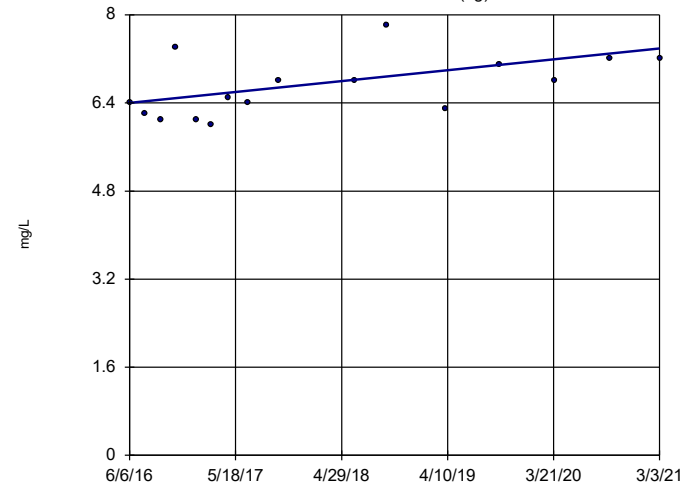


n = 16
 Slope = 0.05099 units per year.
 Mann-Kendall statistic = 35
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18S (bg)



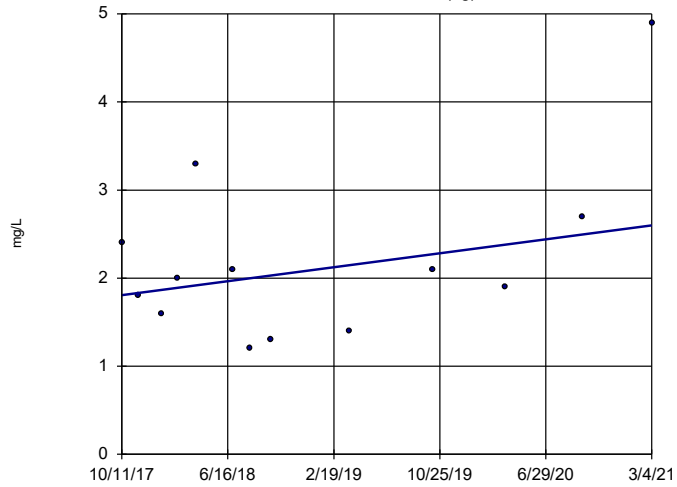
n = 16
 Slope = 0.2082 units per year.
 Mann-Kendall statistic = 50
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

Sen's Slope Estimator

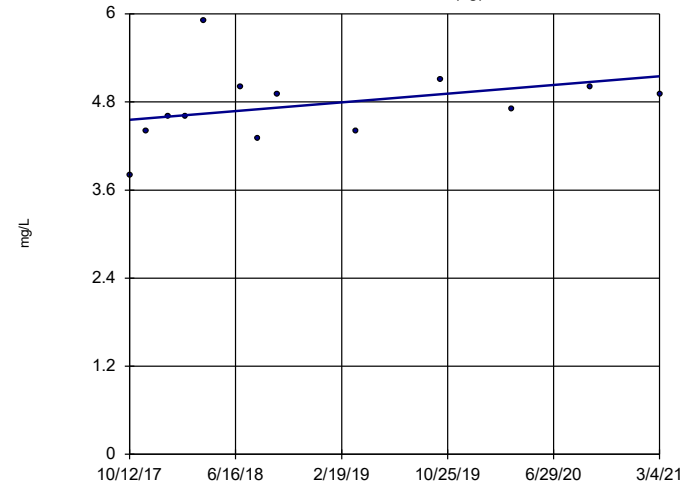
YGWA-39 (bg)



Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

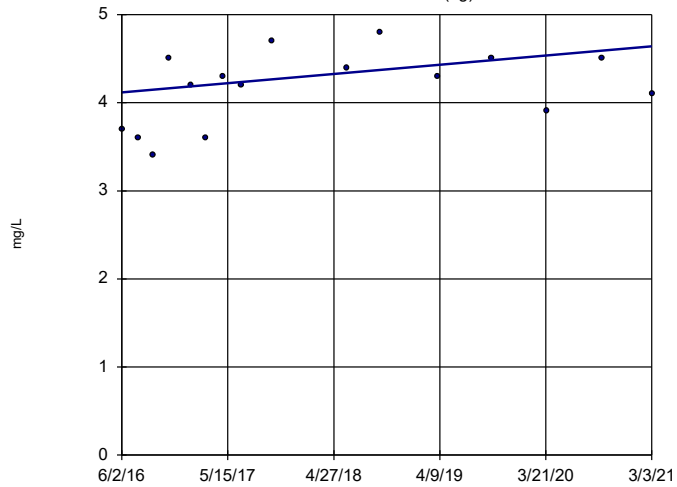
YGWA-40 (bg)



Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

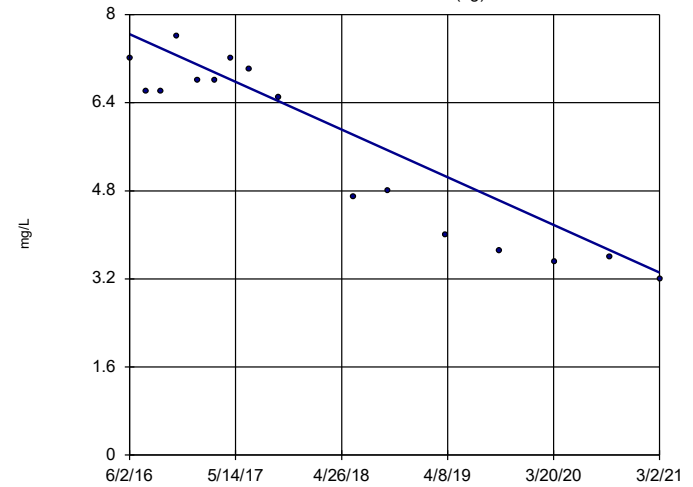
YGWA-41 (bg)



Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

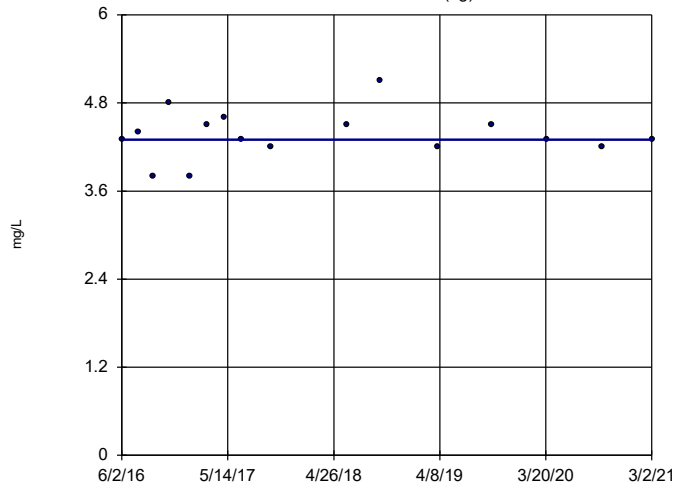
YGWA-5D (bg)



Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5I (bg)

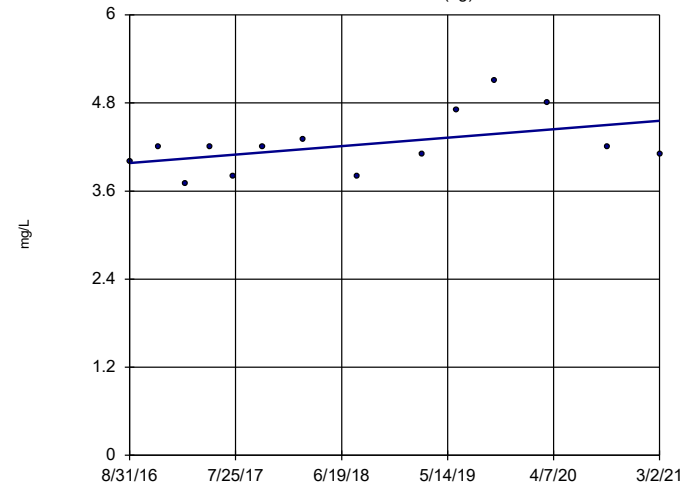


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

GWA-2 (bg)

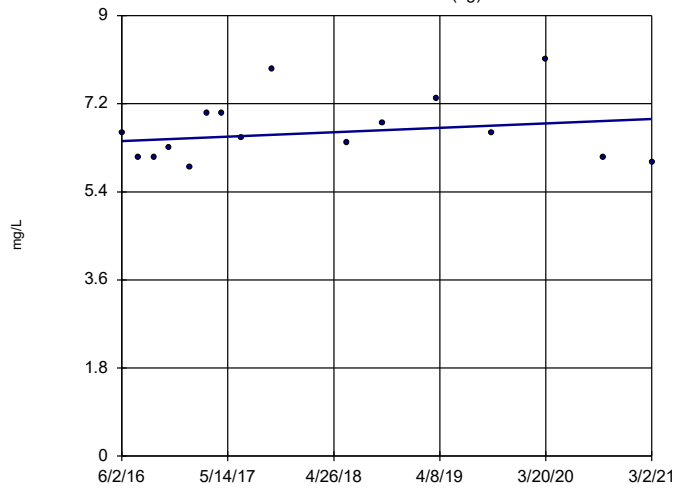


n = 14
 Slope = 0.1272
 units per year.
 Mann-Kendall
 statistic = 29
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-14S (bg)

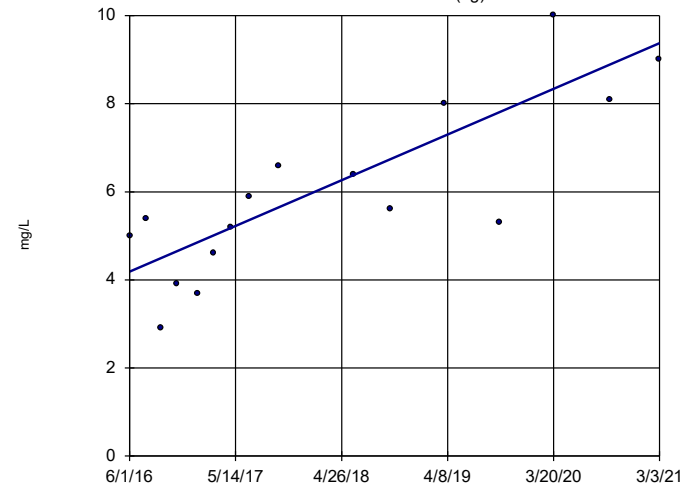


n = 16
 Slope = 0.09469
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)

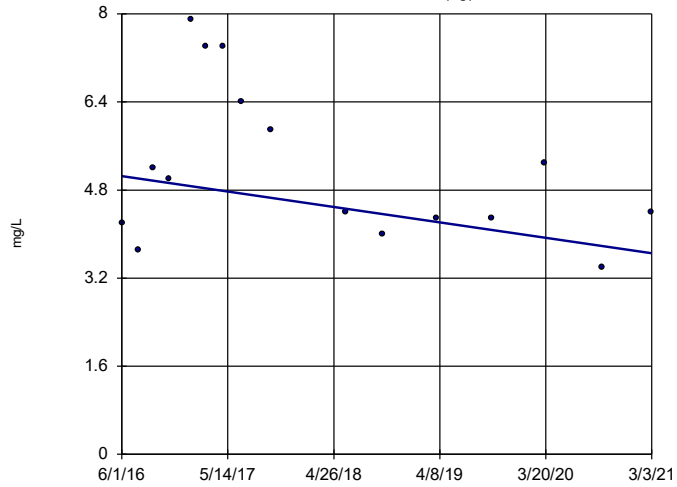


n = 16
 Slope = 1.091
 units per year.
 Mann-Kendall
 statistic = 76
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

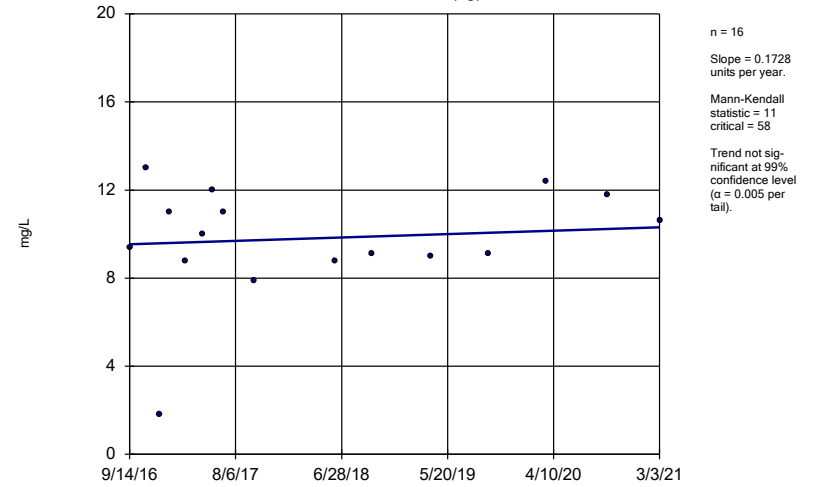
YGWA-11 (bg)



Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

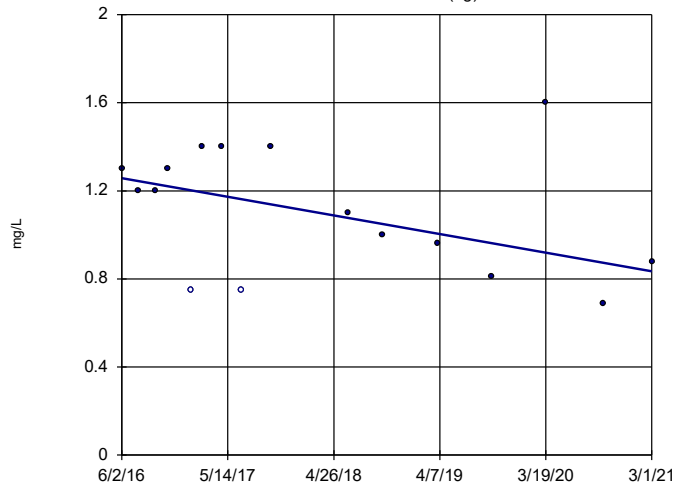
YGWA-21 (bg)



Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

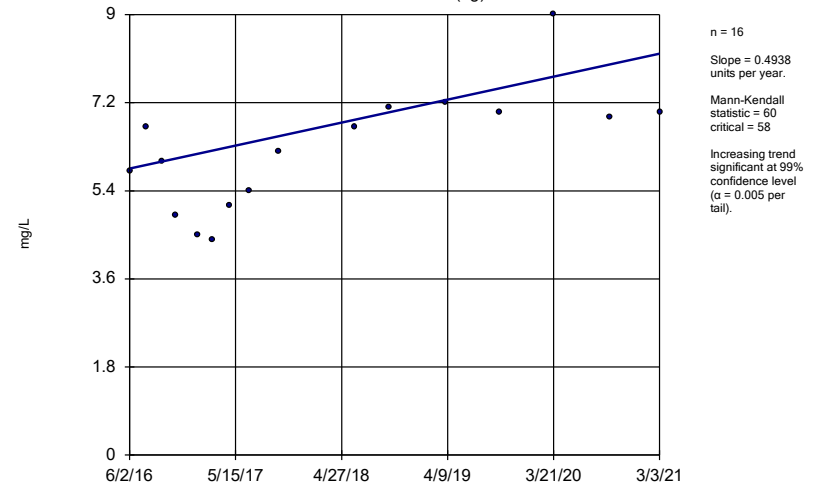
YGWA-30I (bg)



Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

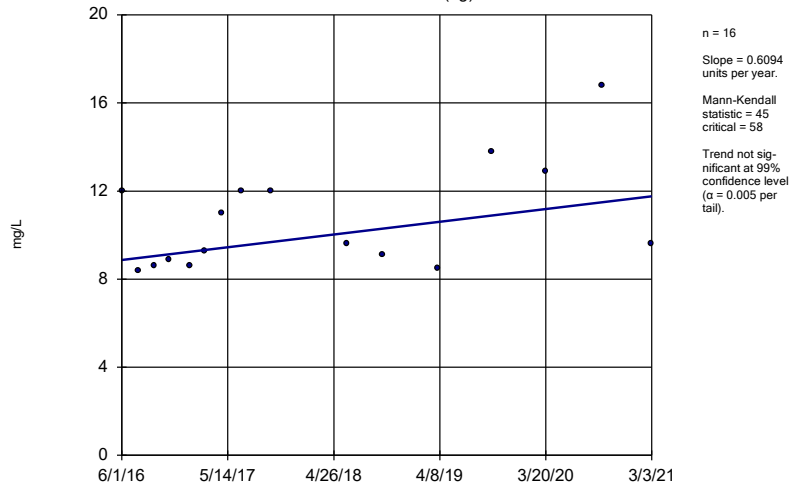
YGWA-3D (bg)



Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

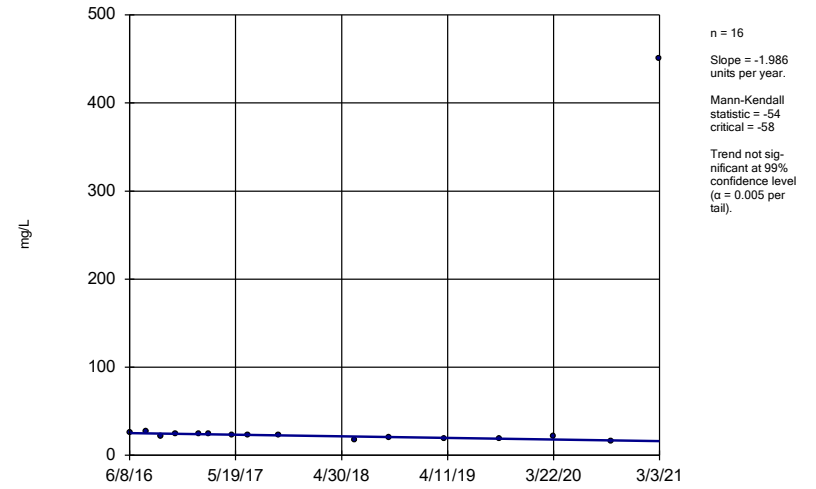
YGWA-3I (bg)



Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

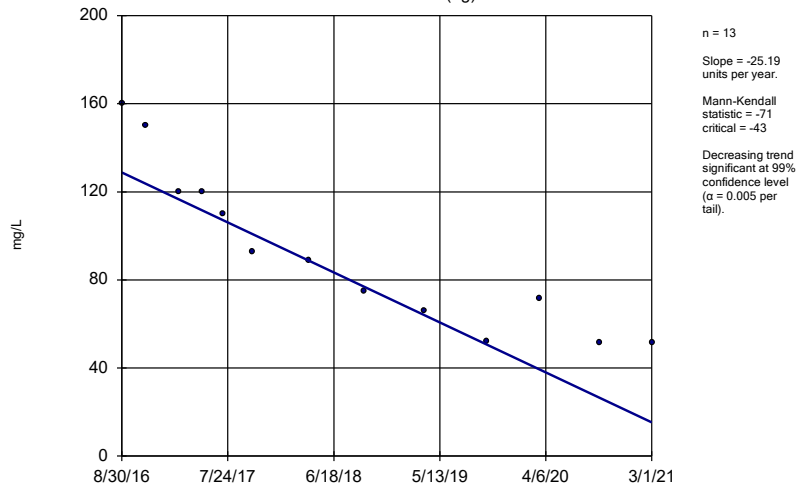
YGWC-27S



Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

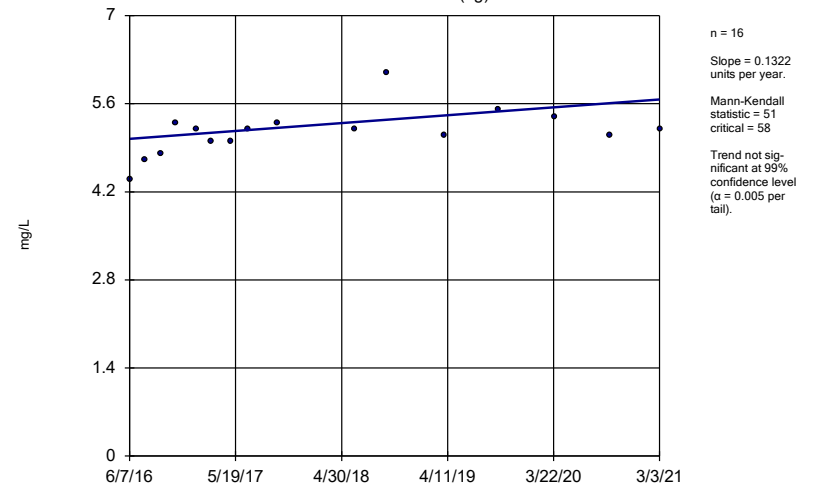
YGWA-47 (bg)



Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

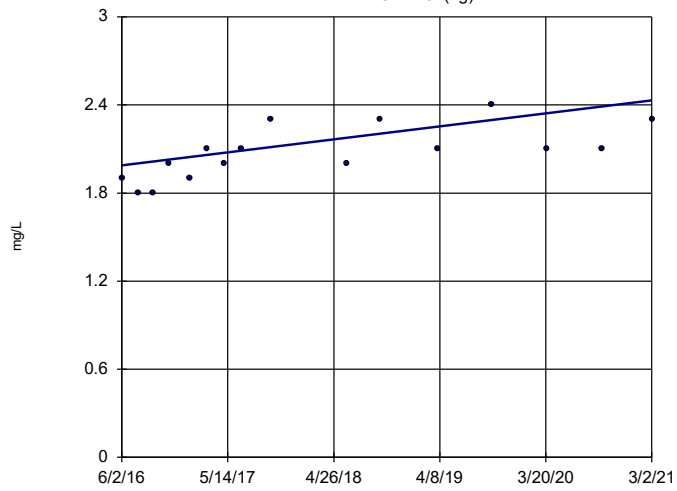
YGWA-17S (bg)



Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5l (bg)

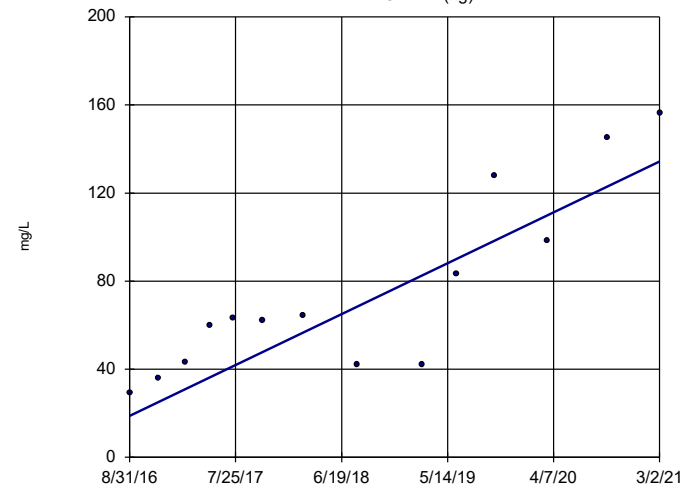


n = 16
 Slope = 0.09335 units per year.
 Mann-Kendall statistic = 70
 critical = 58
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

GWA-2 (bg)



n = 14
 Slope = 25.64 units per year.
 Mann-Kendall statistic = 66
 critical = 48
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 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 5/7/2021, 12:01 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	n/a	315	n/a	n/a	86.03	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	363	n/a	n/a	77.96	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	363	n/a	n/a	3.03	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	81.27	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	95.68	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	n/a	315	n/a	n/a	77.46	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	360	n/a	n/a	69.72	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	342	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	362	n/a	n/a	68.51	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	317	n/a	n/a	82.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	342	n/a	n/a	27.49	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	278	n/a	n/a	93.17	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	306	n/a	n/a	59.8	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	345	n/a	n/a	91.59	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	298	n/a	n/a	96.64	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES ASH POND 2 GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.0013	0.015	0.0013
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	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.

Federal Confidence Intervals - All Results (No Significant)

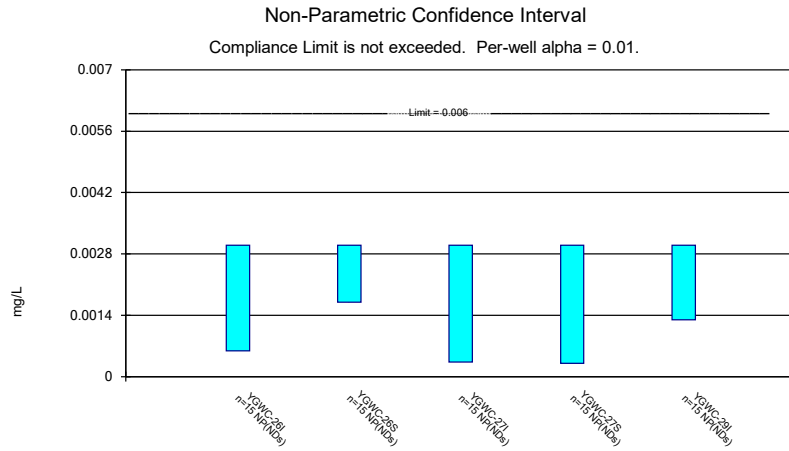
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:14 PM

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	15	0.002674	0.0008604	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	15	0.00282	0.0004754	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	15	0.002822	0.0006894	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	19	0.003181	0.002196	57.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No	19	0.003185	0.002188	57.89	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06639	0.06267	2	No	19	0.06453	0.003182	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02896	0.02661	2	No	19	0.02778	0.002008	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	19	0.06902	0.007204	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1047	0.09313	2	No	19	0.09891	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09012	0.08399	2	No	19	0.08706	0.005237	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.221	0.196	2	No	19	0.2026	0.03864	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0781	0.057	2	No	19	0.07414	0.03394	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.00011	0.004	No	17	0.0001932	0.0001222	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00014	0.004	No	17	0.0002371	0.0001321	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.000066	0.004	No	17	0.0004745	0.0001053	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	17	0.0002418	0.0001791	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	17	0.0004988	0.0000485	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002194	0.0001256	0.005	No	17	0.0002553	0.0001322	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	17	0.003202	0.002205	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002486	0.001092	0.1	No	17	0.002517	0.00169	17.65	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	17	0.004668	0.00319	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	17	0.004201	0.00178	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	17	0.004211	0.001757	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	17	0.004735	0.001091	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002781	0.001865	0.035	No	19	0.002363	0.0008532	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01683	0.003275	0.035	No	19	0.01862	0.02682	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	19	0.002474	0.0006497	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	19	0.004759	0.001051	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	19	0.001424	0.001268	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No	19	0.003845	0.001988	73.68	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.062	0.4927	6.92	No	18	0.8202	0.5153	5.566	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8845	0.5432	6.92	No	19	0.7138	0.2914	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.054	2.769	6.92	No	19	3.412	1.098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.078	0.6625	6.92	No	19	0.8703	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	19	0.6337	0.3534	5.263	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9055	0.4908	6.92	No	19	0.6981	0.3541	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.148	0.7362	6.92	No	19	0.9422	0.3517	5.263	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	20	0.0825	0.02103	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	20	0.1332	0.09928	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.07	4	No	20	0.0921	0.02603	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2052	0.1014	4	No	20	0.1634	0.1047	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	20	0.1269	0.08215	25	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2651	0.1498	4	No	20	0.2075	0.1015	10	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09525	0.05897	4	No	20	0.0882	0.03115	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	15	0.000874	0.0003325	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.015	No	15	0.00069	0.0004539	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.015	No	15	0.0007625	0.0003766	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.015	No	15	0.0006876	0.0004573	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	No	15	0.0008214	0.0003702	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007101	0.006541	0.04	No	19	0.006821	0.0004779	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01037	0.008039	0.04	No	19	0.009205	0.001991	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.00081	0.04	No	19	0.02846	0.006697	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007044	0.00663	0.04	No	19	0.006837	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	19	0.0287	0.005667	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0074	0.0052	0.04	No	19	0.007226	0.005581	5.263	None	No	0.01	NP (normality)

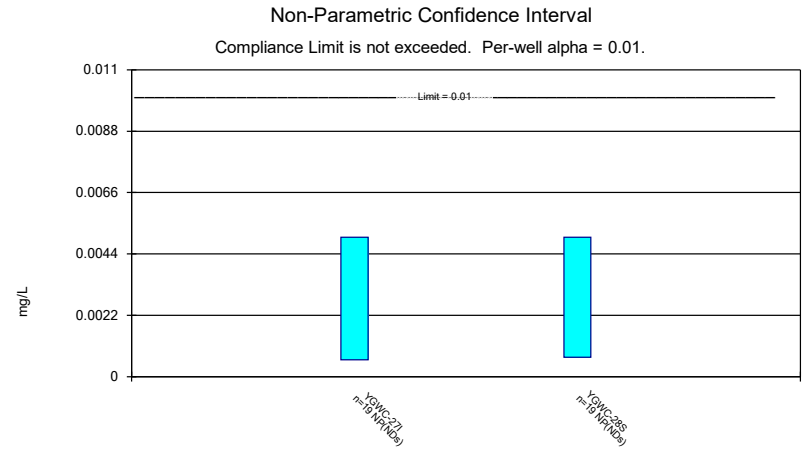
Federal Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:14 PM

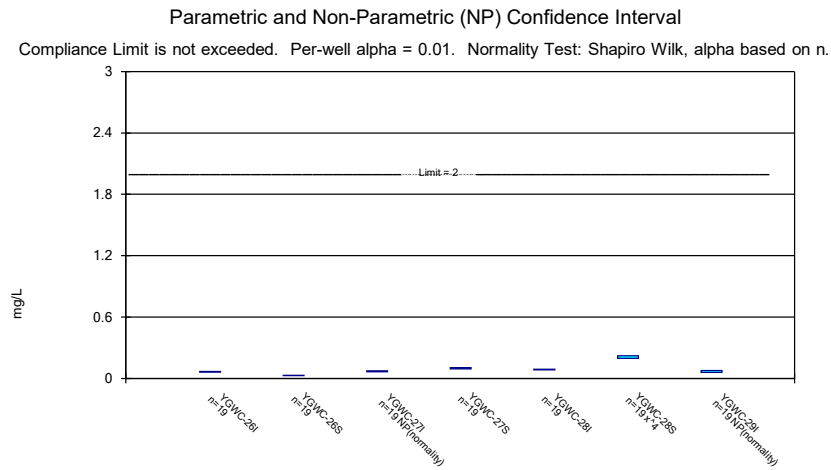
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	19	0.005942	0.004398	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	19	0.005411	0.004474	47.37	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	19	0.008046	0.003887	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	19	0.009517	0.002104	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	17	0.002476	0.001067	11.76	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	17	0.004076	0.001731	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)



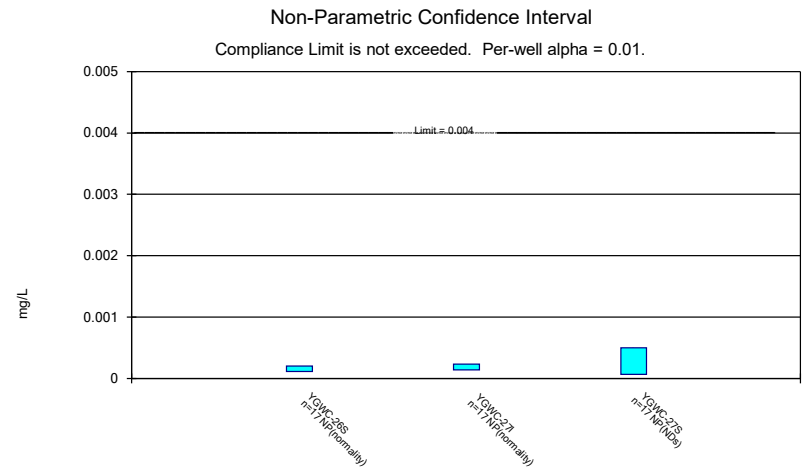
Constituent: Antimony Analysis Run 5/7/2021 12:13 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 5/7/2021 12:13 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



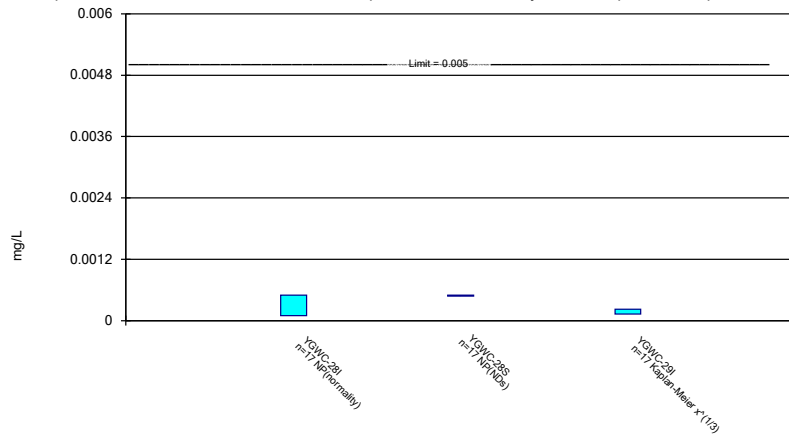
Constituent: Barium Analysis Run 5/7/2021 12:13 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Beryllium Analysis Run 5/7/2021 12:13 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

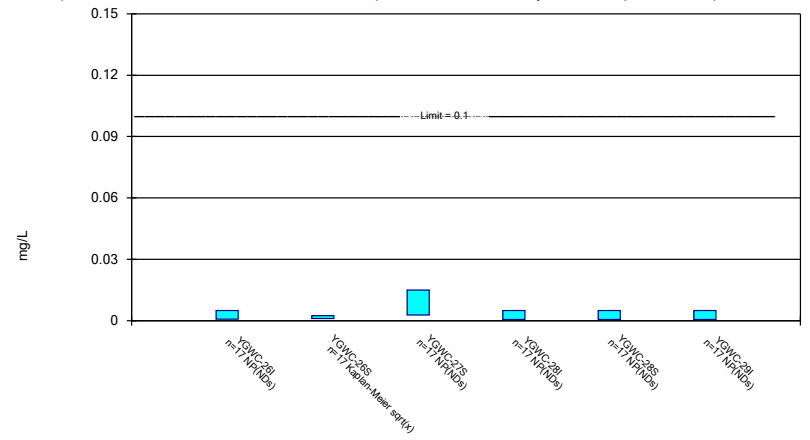
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/7/2021 12:13 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

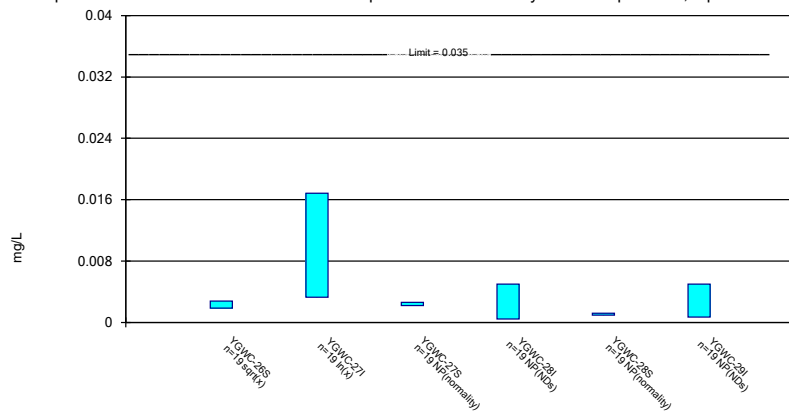
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/7/2021 12:13 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

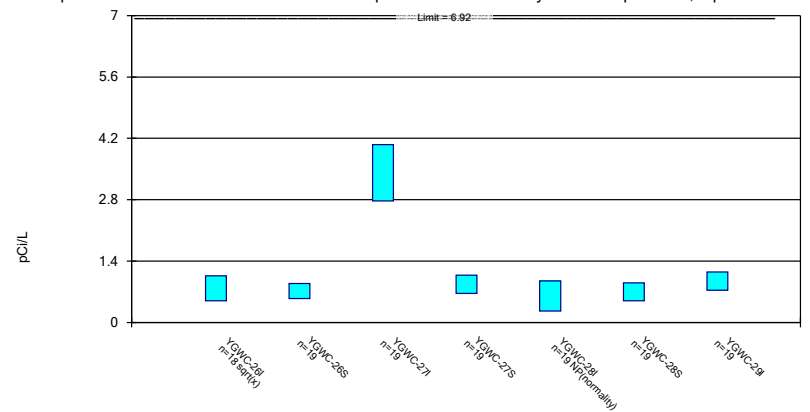
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/7/2021 12:13 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

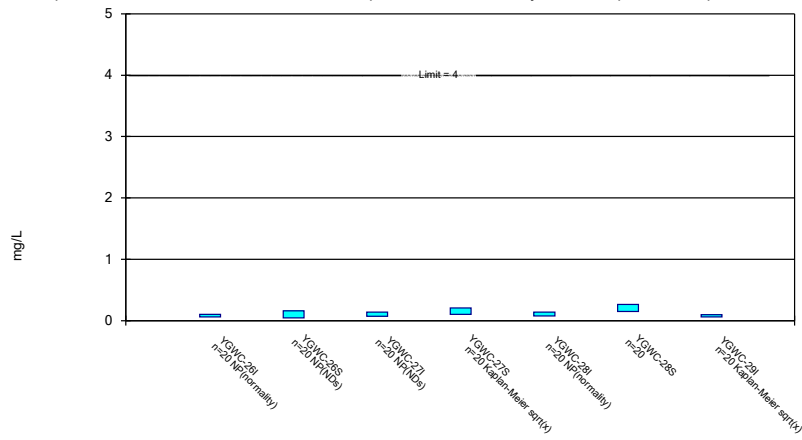
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Constituent: Combined Radium 226 + 228 Analysis Run 5/7/2021 12:13 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

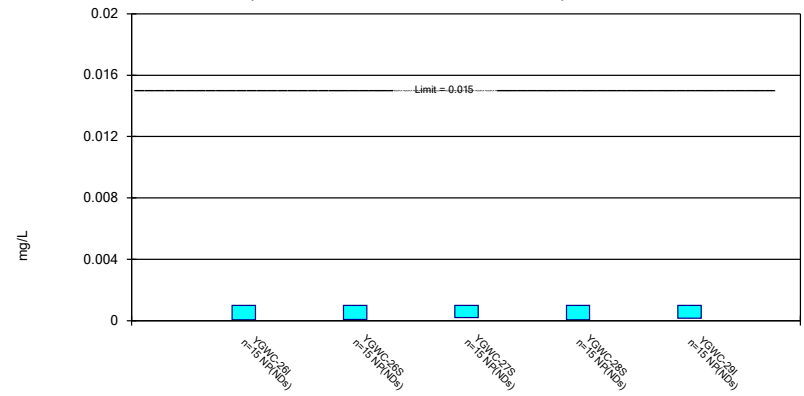
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/7/2021 12:13 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

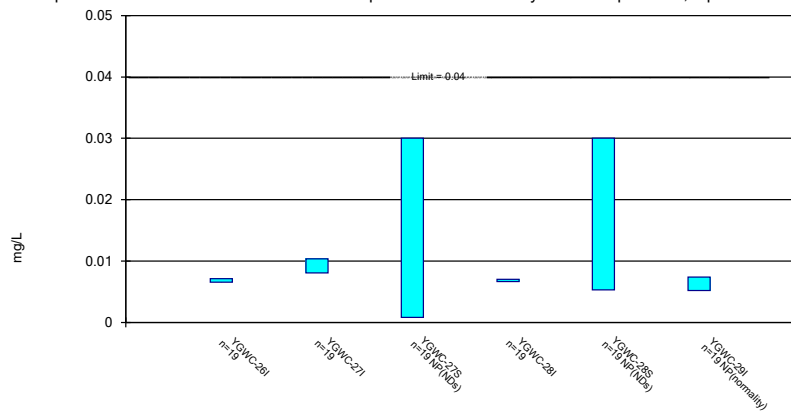
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/7/2021 12:13 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

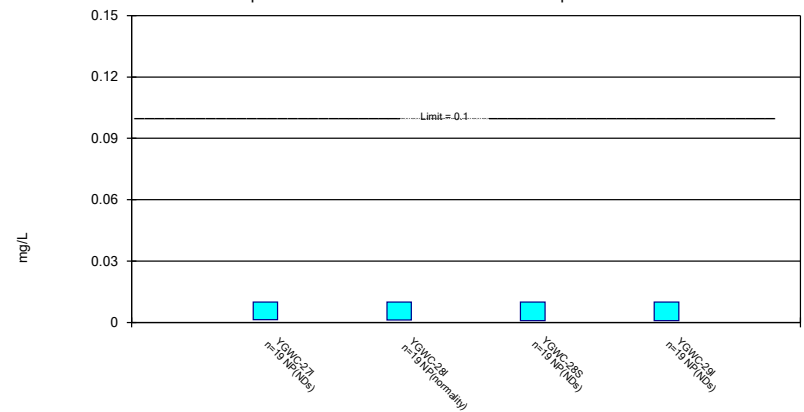
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/7/2021 12:13 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

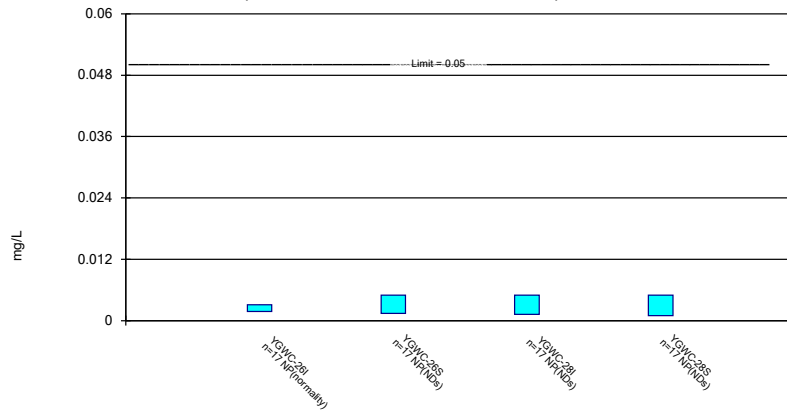
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/7/2021 12:13 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: Selenium Analysis Run 5/7/2021 12:13 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE I.

State Confidence Intervals - All Results (No Significant)

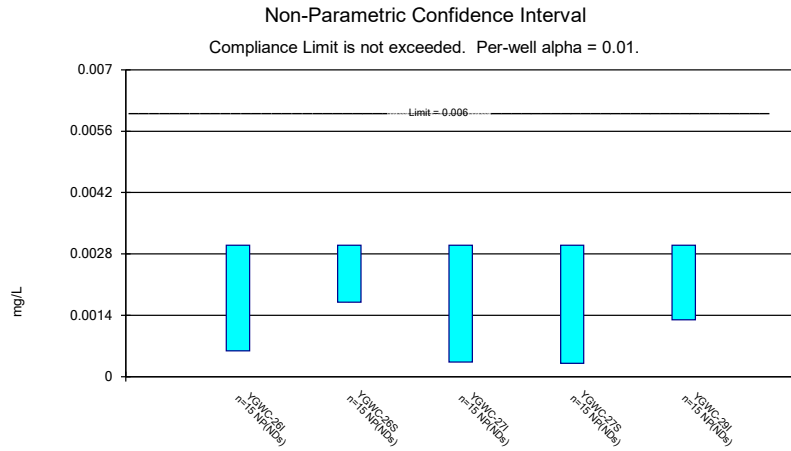
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:16 PM

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	15	0.002674	0.0008604	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	15	0.00282	0.0004754	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	15	0.002822	0.0006894	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	19	0.003181	0.002196	57.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No	19	0.003185	0.002188	57.89	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06639	0.06267	2	No	19	0.06453	0.003182	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02896	0.02661	2	No	19	0.02778	0.002008	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	19	0.06902	0.007204	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1047	0.09313	2	No	19	0.09891	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09012	0.08399	2	No	19	0.08706	0.005237	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.221	0.196	2	No	19	0.2026	0.03864	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0781	0.057	2	No	19	0.07414	0.03394	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.00011	0.004	No	17	0.0001932	0.0001222	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00014	0.004	No	17	0.0002371	0.0001321	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.000066	0.004	No	17	0.0004745	0.0001053	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	17	0.0002418	0.0001791	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	17	0.0004988	0.0000485	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002194	0.0001256	0.005	No	17	0.0002553	0.0001322	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	17	0.003202	0.002205	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002486	0.001092	0.1	No	17	0.002517	0.00169	17.65	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	17	0.004668	0.00319	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	17	0.004201	0.00178	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	17	0.004211	0.001757	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	17	0.004735	0.001091	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002781	0.001865	0.035	No	19	0.002363	0.0008532	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01683	0.003275	0.035	No	19	0.01862	0.02682	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	19	0.002474	0.0006497	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	19	0.004759	0.001051	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	19	0.001424	0.001268	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No	19	0.003845	0.001988	73.68	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.062	0.4927	6.92	No	18	0.8202	0.5153	5.566	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8845	0.5432	6.92	No	19	0.7138	0.2914	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.054	2.769	6.92	No	19	3.412	1.098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.078	0.6625	6.92	No	19	0.8703	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	19	0.6337	0.3534	5.263	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9055	0.4908	6.92	No	19	0.6981	0.3541	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.148	0.7362	6.92	No	19	0.9422	0.3517	5.263	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	20	0.0825	0.02103	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	20	0.1332	0.09928	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.07	4	No	20	0.0921	0.02603	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2052	0.1014	4	No	20	0.1634	0.1047	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	20	0.1269	0.08215	25	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2651	0.1498	4	No	20	0.2075	0.1015	10	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09525	0.05897	4	No	20	0.0882	0.03115	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.0013	No	15	0.000874	0.0003325	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.0013	No	15	0.00069	0.0004539	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.0013	No	15	0.0007625	0.0003766	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.0013	No	15	0.0006876	0.0004573	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.0013	No	15	0.0008214	0.0003702	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007101	0.006541	0.03	No	19	0.006821	0.0004779	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01037	0.008039	0.03	No	19	0.009205	0.001991	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.00081	0.03	No	19	0.02846	0.006697	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007044	0.00663	0.03	No	19	0.006837	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.03	No	19	0.0287	0.005667	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0074	0.0052	0.03	No	19	0.007226	0.005581	5.263	None	No	0.01	NP (normality)

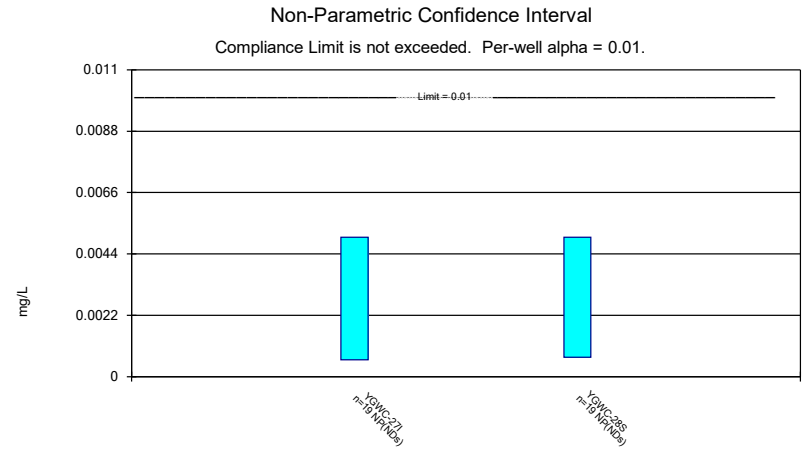
State Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:16 PM

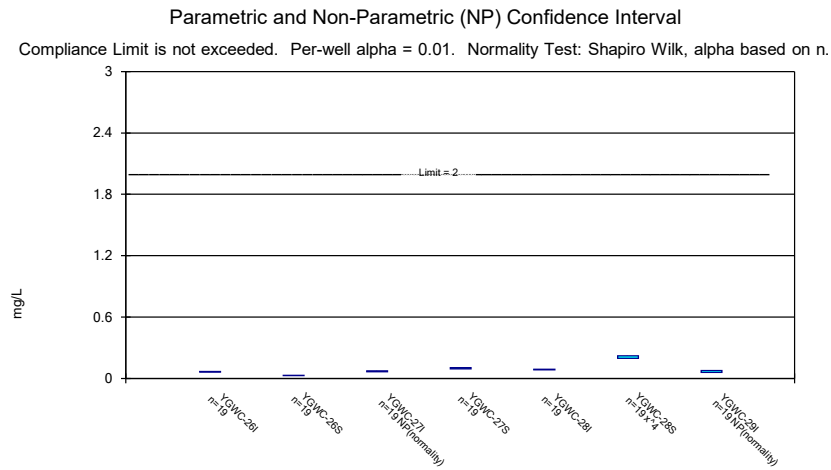
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.014	No	19	0.005942	0.004398	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.014	No	19	0.005411	0.004474	47.37	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.014	No	19	0.008046	0.003887	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.014	No	19	0.009517	0.002104	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	17	0.002476	0.001067	11.76	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	17	0.004076	0.001731	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)



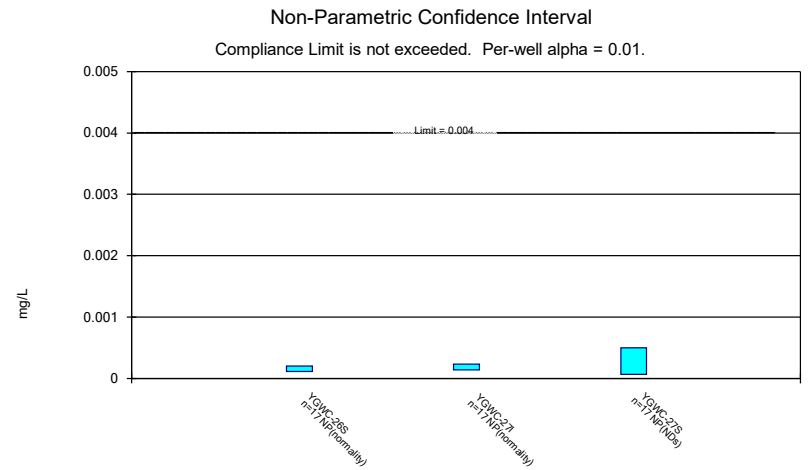
Constituent: Antimony Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



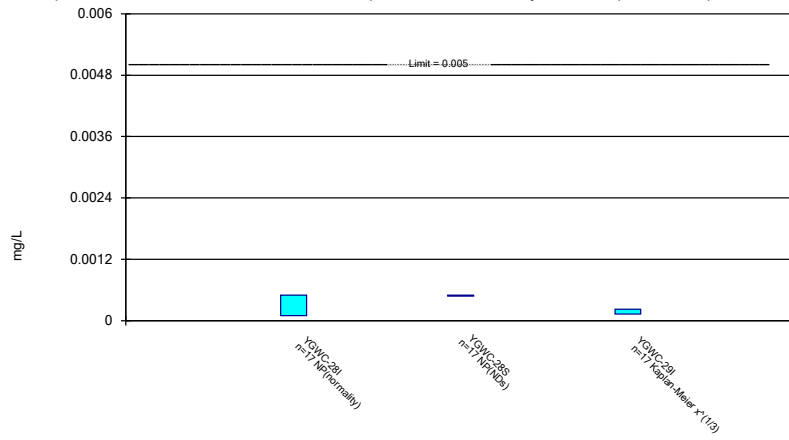
Constituent: Barium Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Beryllium Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

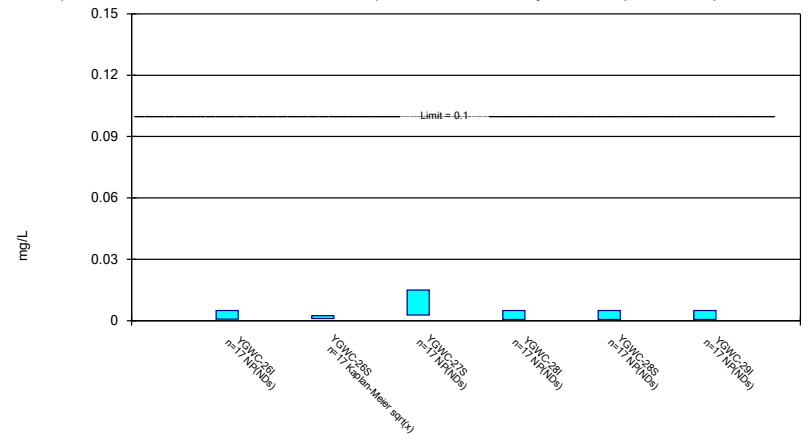
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

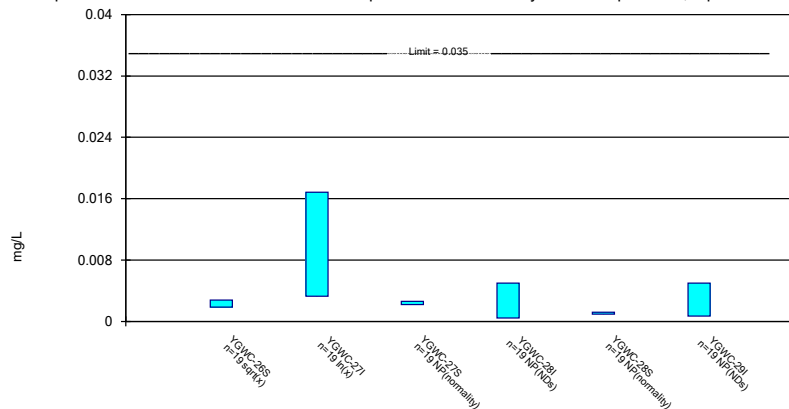
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

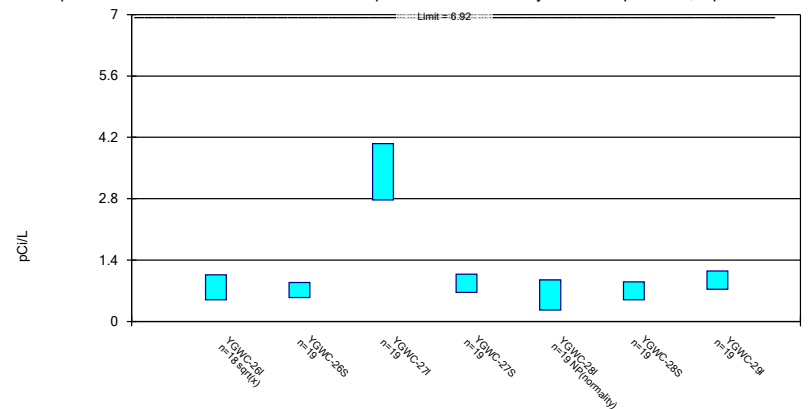
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

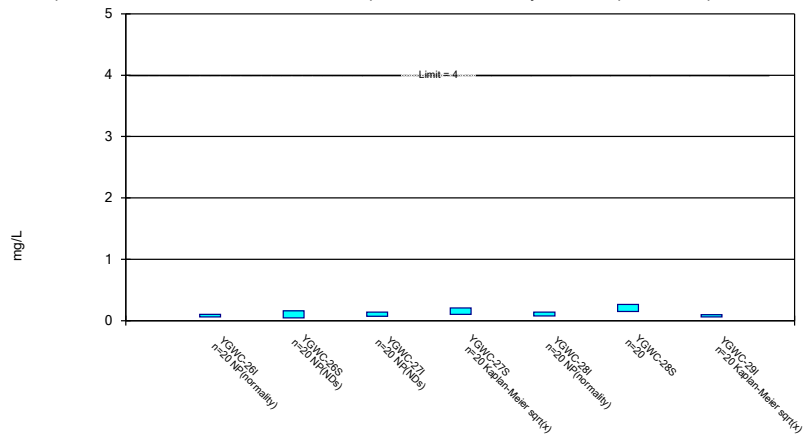
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

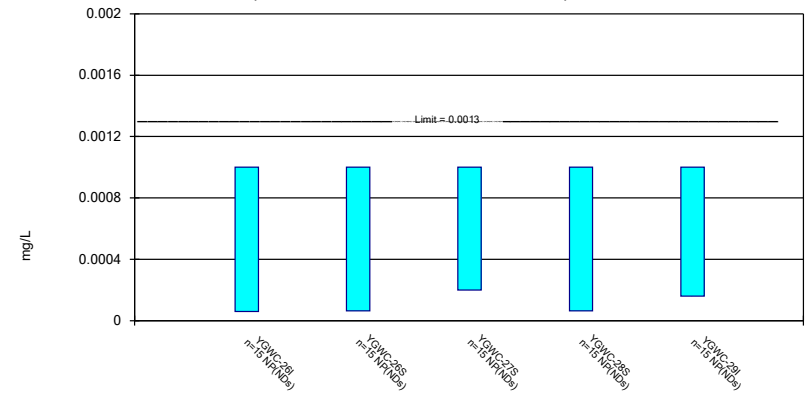
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

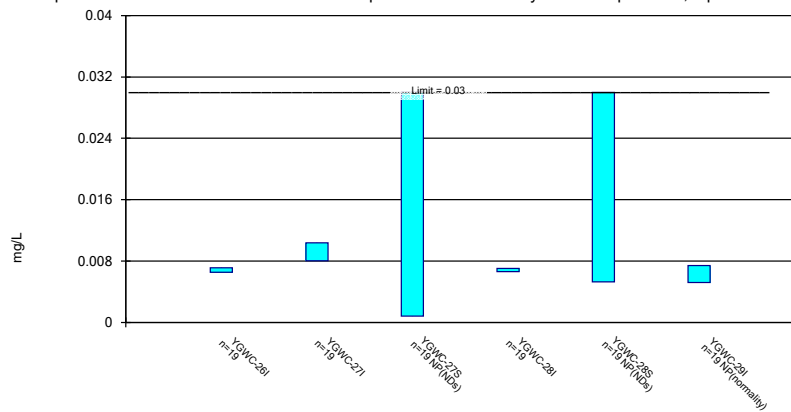
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

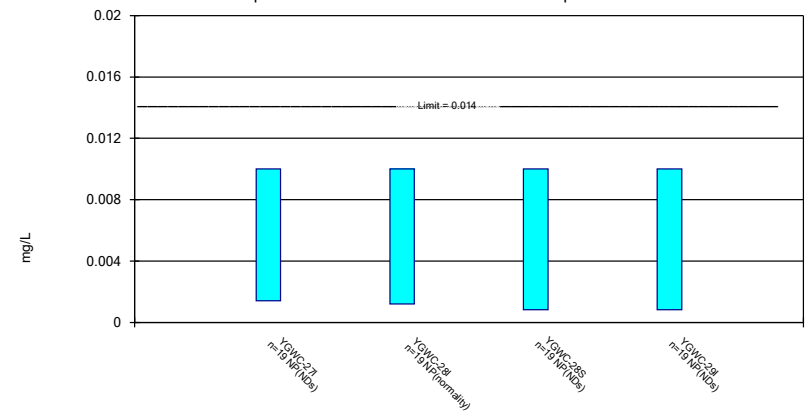
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/7/2021 12:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

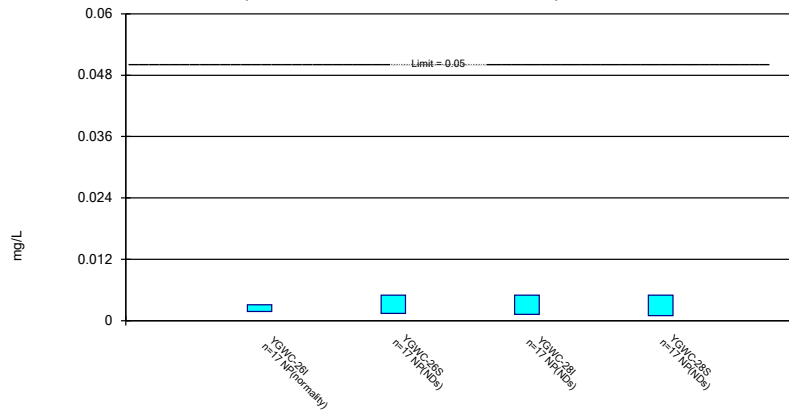
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/7/2021 12:15 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: Selenium Analysis Run 5/7/2021 12:15 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/7/2021 12:16 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
Mean	0.002674	0.00282	0.002822	0.00282	0.002887
Std. Dev.	0.0008604	0.0004754	0.0006894	0.0006971	0.0004389
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 5/7/2021 12:16 PM View: Appendix IV

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

	YGWC-27I	YGWC-28S
6/8/2016	0.0011 (J)	
6/9/2016		0.00094 (J)
8/1/2016	0.0009 (J)	
8/2/2016		<0.005
9/20/2016	<0.005	
9/21/2016		<0.005
11/7/2016	<0.005	<0.005
1/18/2017	<0.005	<0.005
2/21/2017		<0.005
2/23/2017	<0.005	
5/5/2017		<0.005
5/8/2017	0.0006 (J)	
6/30/2017	<0.005 (*)	
7/7/2017		0.0007 (J)
3/29/2018	0.0006 (J)	
3/30/2018		0.00069 (J)
6/12/2018		0.00075 (J)
6/13/2018	<0.005	
10/2/2018	<0.005	
10/3/2018		0.0007 (J)
2/27/2019	0.00069 (J)	<0.005
4/1/2019	<0.005	
4/2/2019		<0.005
9/26/2019	0.00058 (J)	0.00057 (J)
2/13/2020	0.00055 (J)	0.00065 (J)
3/19/2020		0.00051 (J)
3/20/2020	0.00042 (J)	
9/24/2020	<0.005	<0.005
2/10/2021	<0.005	
2/12/2021		<0.005
3/3/2021	<0.005	<0.005
Mean	0.003181	0.003185
Std. Dev.	0.002196	0.002188
Upper Lim.	0.005	0.005
Lower Lim.	0.0006	0.00069

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/7/2021 12:16 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
Mean	0.06453	0.02778	0.06902	0.09891	0.08706	0.2026	0.07414
Std. Dev.	0.003182	0.002008	0.007204	0.009866	0.005237	0.03864	0.03394
Upper Lim.	0.06639	0.02896	0.0728	0.1047	0.09012	0.221	0.0781
Lower Lim.	0.06267	0.02661	0.063	0.09313	0.08399	0.196	0.057

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/7/2021 12:16 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
Mean	0.0001932	0.0002371	0.0004745
Std. Dev.	0.0001222	0.0001321	0.0001053
Upper Lim.	0.0002	0.00023	0.0005
Lower Lim.	0.00011	0.00014	6.6E-05

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/7/2021 12:16 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)
Mean	0.0002418	0.0004988	0.0002553
Std. Dev.	0.0001791	4.851E-06	0.0001322
Upper Lim.	0.0005	0.0005	0.0002194
Lower Lim.	0.0001	0.00048	0.0001256

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/7/2021 12:16 PM View: Appendix IV

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

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<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			
8/2/2016				0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<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
11/8/2016				<0.005		
1/18/2017	<0.005	0.002 (J)		<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
5/3/2017		0.0037 (J)				
5/5/2017				<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005			<0.005
6/30/2017			<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
3/30/2018	<0.005	<0.005		<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	0.015	<0.005	<0.005	<0.005
4/1/2019			<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	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<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)		0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	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		0.00058 (J)	<0.005	<0.005	<0.005
Mean	0.003202	0.002517	0.004668	0.004201	0.004211	0.004735
Std. Dev.	0.002205	0.00169	0.00319	0.00178	0.001757	0.001091
Upper Lim.	0.005	0.002486	0.015	0.005	0.005	0.005
Lower Lim.	0.00065	0.001092	0.0027	0.0005	0.0006	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/7/2021 12:16 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
Mean	0.002363	0.01862	0.002474	0.004759	0.001424	0.003845
Std. Dev.	0.0008532	0.02682	0.0006497	0.001051	0.001268	0.001988
Upper Lim.	0.002781	0.01683	0.0026	0.005	0.0012	0.005
Lower Lim.	0.001865	0.003275	0.0022	0.00042	0.00092	0.0007

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/7/2021 12:16 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
Mean	0.8202	0.7138	3.412	0.8703	0.6337	0.6981	0.9422
Std. Dev.	0.5153	0.2914	1.098	0.3549	0.3534	0.3541	0.3517
Upper Lim.	1.062	0.8845	4.054	1.078	0.948	0.9055	1.148
Lower Lim.	0.4927	0.5432	2.769	0.6625	0.261	0.4908	0.7362

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/7/2021 12:16 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)
Mean	0.0825	0.1332	0.0921	0.1634	0.1269	0.2075	0.0882
Std. Dev.	0.02103	0.09928	0.02603	0.1047	0.08215	0.1015	0.03115
Upper Lim.	0.1	0.16	0.14	0.2052	0.14	0.2651	0.09525
Lower Lim.	0.06	0.044	0.07	0.1014	0.078	0.1498	0.05897

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/7/2021 12:16 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)
Mean	0.000874	0.00069	0.0007625	0.0006876	0.0008214
Std. Dev.	0.0003325	0.0004539	0.0003766	0.0004573	0.0003702
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	6.4E-05	0.0002	6.3E-05	0.00016

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/7/2021 12:16 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)
Mean	0.006821	0.009205	0.02846	0.006837	0.0287	0.007226
Std. Dev.	0.0004779	0.001991	0.006697	0.0003531	0.005667	0.005581
Upper Lim.	0.007101	0.01037	0.03	0.007044	0.03	0.0074
Lower Lim.	0.006541	0.008039	0.00081	0.00663	0.0053	0.0052

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/7/2021 12:16 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
Mean	0.005942	0.005411	0.008046	0.009517
Std. Dev.	0.004398	0.004474	0.003887	0.002104
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 5/7/2021 12:16 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
Mean	0.002476	0.004076	0.004776	0.004765
Std. Dev.	0.001067	0.001731	0.0009216	0.0009701
Upper Lim.	0.0031	0.005	0.005	0.005
Lower Lim.	0.0018	0.0014	0.0012	0.001

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