



2020 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Plant Yates - Ash Pond 2

Newnan, Georgia

August 2020

**2020 SEMIANNUAL
GROUNDWATER
MONITORING AND
CORRECTIVE ACTION
REPORT**

Plant Yates - Ash Pond 2
Newnan, Georgia



Alexandra Simpson
Staff Geologist

Prepared for:

Georgia Power Company
Newnan, Georgia
Coweta County

Prepared by:

Arcadis, Inc.
2389 Paces ferry Road SE
Suite 900
Atlanta
Georgia 30339
Tel 770 431 8666



Geoffrey Gay, P.E.
Principal Environmental Engineer / Project Manager

Our Ref.:

30052923

Date:

August 31, 2020

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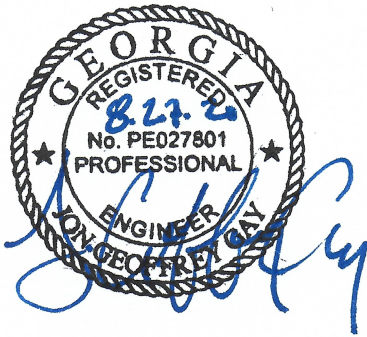
ACRONYMS AND ABBREVIATIONS

| | |
|---------|---|
| amsl | above mean sea level |
| Arcadis | Arcadis, Inc. |
| AP | Ash Pond |
| bgs | below ground surface |
| CCR | Coal Combustion Residuals |
| CFR | Code of Federal Regulations |
| DO | dissolved oxygen |
| ft | feet or foot |
| ft/ft | feet per foot |
| GAEPD | Georgia Environmental Protection Division |
| GPC | Georgia Power Company |
| GWPS | Groundwater Protection Standard |
| LCL | Lower Confidence Limit |
| MCL | Maximum Contaminant Level |
| MDL | Method Detection Limit |
| mg/L | milligrams per liter |
| NELAP | National Environmental Laboratory Accreditation Program |
| NTU | nephelometric turbidity units |
| PQL | laboratory reporting limit |
| QA/QC | Quality Assurance/Quality Control |
| SSI | Statistically Significant Increase |
| USEPA | United States Environmental Protection Agency |

PROFESSIONAL CERTIFICATION

This 2020 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.

Arcadis U.S., Inc.



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

8.27.2020
Date

1 INTRODUCTION

This *2020 Semiannual Groundwater Monitoring and Corrective Action Report* presents groundwater monitoring activities conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-2 (the Site) in February and March 2020. 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 February 2020 annual monitoring for Appendix IV of 40 CFR 257, as well as a semiannual monitoring event conducted in March 2020 and activities completed through the first half of 2020 in accordance with Rule 391-3-4-.10(6)(c).

This report documents the monitoring activities completed for the groundwater monitoring program through the first half of 2020 in accordance with § 257.90(e) at Plant Yates – AP-2.

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. The layout of Plant Yates and the other site features are shown in **Figure 2**.

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 performance in accordance with the monitoring requirements 40 CFR § 257.90 through 257.95 of the Federal CCR Rule, and the EPD rules for Solid Waste Management 391-3-4-.10(6)(a).

1.2 Regional Geology and Hydrogeologic Setting

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

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 January 2020).

A thin layer of soil from one to two 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 § 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. 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 provided on **Figure 2**.

2 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in the first half of 2020 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 2**.

Table 2 summarizes groundwater sampling events conducted by ACC at AP-2 during February and March 2020. During the February 2020 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 2020 semiannual sampling event, groundwater samples were collected for both 40 CFR 257 Appendix III and the Appendix IV constituents detected during the February 2020 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 2020; the network remained the same as in the 2019 (previous) reporting year. Monitoring well-related activities were limited to the following: visual inspection of well conditions prior to 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 2020 pursuant to 40 CFR § 257.95(b). In accordance with 40 CFR § 257.95(d), a semiannual assessment monitoring event occurred in March 2020 where samples were collected and analyzed for Appendix III parameters and Appendix IV parameters detected above the laboratory method detection limit (MDL) from the February 2020 event. A summary of groundwater sampling events completed during the first half of 2020 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

Prior to the February and March assessment sampling events, static water levels were recorded from piezometers and wells at AP-2. Water levels at 14 monitoring wells within the certified well network were collected along with 8 non-network monitoring wells and/or piezometers. The February and March 2020 groundwater elevation data are summarized in **Tables 3**.

Saprolite and transition zone groundwater elevation data were used to prepare a potentiometric surface elevation contour map (**Figure 3**). Saprolite and transition zone groundwater elevations range from 823.31 feet (YGWA-2I) to 691.96 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. YGWA-1D and YGWA-3D, deep bedrock wells, had groundwater elevations of 791.73 feet and 767.80 feet, respectively, which varied from the saprolite and transition zone well elevations. It is interpreted that these variations are attributed to bedrock geologic structural controls, and therefore may be hydraulically independent of each other. 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.

Specifically:

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

where:

v = groundwater seepage velocity

k = hydraulic conductivity

dh/dl = hydraulic gradient

n_e = effective porosity

Groundwater flow velocities were calculated for the site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources, including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979).

Calculated groundwater flow velocities for March 2020 and are presented in **Table 4**. The calculated average groundwater linear flow velocity is 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™ (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 prior to sampling.

Turbidity was measured using a Hach 2100Q 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.
- ± 10% for specific conductance.
- ± 10% for DO where DO > 0.5 milligrams per liter (mg/L). No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 10 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 are included in **Appendix A**.

3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from 13 monitoring wells as summarized in **Table 2**. During the February 2020 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 2020 were analyzed for Appendix III parameters as well as those Appendix IV parameters detected above the laboratory MDL during the February 2020 event, in accordance with 40 CFR § 257.95(d). Mercury was not detected above the laboratory MDL during the February 2020 scan event. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix B**.

Analytical data collected from the two sampling events (February and March 2020) are summarized in **Table 5**. A summary of historical groundwater data is provided in **Appendix C**.

Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project. Laboratory reports and chain-of-custody records for the monitoring events are presented in **Appendix B**.

3.4 Data Quality Assurance/Quality Control (QA/QC) and Validation

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

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling activities, quality control samples, and data associated with the chemical analytical results. 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 tolerance limits for Appendix III parameters. This method uses pooled upgradient monitoring well data to establish a background statistical limit. Data from the March 2020 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 statically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine whether the result was an outlier. If resampling is performed and the initial finding is not verified, the resampled value replaces the initial finding. When the resample confirms the initial result, both values remain in the database and an SSI is declared. The following criteria were applied to the evaluation:

- Statistical analyses were not performed on analytes containing 100 percent non-detects.
- When data contained less than 15 percent non-detects in background, 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 for Appendix IV constituents with a target of 95 percent confidence and 95 percent coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background limits were then used when determining the groundwater protection standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under §§ 141.62 and 141.66 of this title;
- For the following constituents:

- Cobalt: 0.006 mg/L
- Lead: 0.015 mg/L
- Lithium: 0.040 mg/L
- Molybdenum: 0.100 mg/L; and
- The background level for constituents where 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 in 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 where 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 6** summarizes the background limit established at each monitoring well 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 well/constituent pair was considered to exceed its respective standard only when the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, an SSL exceedance was identified.

4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the Site was performed to determine whether constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine whether concentrations statistically exceed the established GWPS. Appendix III and Appendix IV data from the first 2020 semiannual event were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats 2019).

Based on review of the Appendix III statistical analysis from the March 2020 sampling event presented in **Appendix E**, Appendix III constituents 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 E**.

Statistical analysis of the March 2020 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 (interwell tolerance limits) and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix D**.

5 MONITORING PROGRAM STATUS

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in January 2018. 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. The next semiannual assessment monitoring event is planned for the third quarter of 2020 and will include the collection of Appendix III analytes and the Appendix IV constituents analyzed during the March 2020 sampling event.

7 REFERENCES

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TABLES



Table 1. Monitoring Network Well Summary
2020 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2



| Well ID | Installation Date | Depth to Bottom (ft bTOC) | Bottom Elevation (ft) | Depth to Top of Screen (ft bTOC) | Top of Screen Elevation (ft) | Hydraulic Location / Purpose |
|--------------------------|-------------------|---------------------------|-----------------------|----------------------------------|------------------------------|------------------------------|
| Network Wells | | | | | | |
| YGWA-1I | 5/20/2014 | 53.60 | 783.00 | 43.30 | 793.30 | Upgradient |
| YGWA-1D | 5/20/2014 | 128.85 | 708.40 | 78.05 | 759.20 | Upgradient |
| YGWA-2I | 5/20/2014 | 63.75 | 802.50 | 53.45 | 812.80 | Upgradient |
| YGWA-3I | 5/20/2014 | 59.05 | 737.50 | 48.85 | 747.70 | Upgradient |
| YGWA-3D | 5/20/2014 | 134.18 | 662.60 | 83.88 | 712.90 | Upgradient |
| YGWA-14S | 5/20/2014 | 34.96 | 713.80 | 24.66 | 724.10 | Upgradient |
| YGWA-30I | 9/23/2015 | 59.48 | 703.10 | 49.18 | 713.40 | Upgradient |
| YGWC-26S | 10/1/2015 | 40.18 | 676.10 | 29.88 | 686.40 | Downgradient |
| YGWC-26I | 9/30/2015 | 69.81 | 646.10 | 59.51 | 656.40 | Downgradient |
| YGWC-27S | 10/7/2015 | 40.52 | 676.00 | 30.22 | 686.30 | Downgradient |
| YGWC-27I | 10/7/2015 | 79.99 | 636.20 | 69.69 | 646.50 | Downgradient |
| YGWC-28S | 10/5/2015 | 44.95 | 673.00 | 34.65 | 683.30 | Downgradient |
| YGWC-28I | 10/5/2015 | 69.93 | 648.00 | 59.63 | 658.30 | Downgradient |
| YGWC-29I | 10/1/2015 | 39.59 | 677.80 | 29.29 | 688.10 | Downgradient |
| Non-Network Wells | | | | | | |
| PZ-1S | 5/20/2014 | 36.34 | 800.50 | 26.04 | 810.80 | Piezometer |
| PZ-3S | 5/20/2014 | 42.39 | 754.00 | 32.09 | 764.30 | Piezometer |
| PZ-13S | 5/20/2014 | 43.79 | 764.00 | 33.49 | 774.30 | Piezometer |
| PZ-13I | 5/20/2014 | 59.22 | 748.40 | 48.92 | 758.70 | Piezometer |
| PZ-14I | 5/20/2014 | 50.86 | 698.20 | 40.56 | 708.50 | Piezometer |
| PZ-25S | 9/2/2015 | 56.80 | 709.80 | 46.50 | 720.10 | Piezometer |
| PZ-25I | 9/3/2015 | 84.58 | 681.80 | 74.28 | 692.10 | Piezometer |
| PZ-31S | 9/24/2015 | 34.72 | 703.90 | 24.42 | 714.20 | Piezometer |

Notes:

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

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

Table 2. Groundwater Sampling Plan
2020 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

| Well ID | Hydraulic Location | Assessment Monitoring | 2020 Semiannual Sampling |
|----------|--------------------|------------------------|--------------------------|
| | | February 10 - 13, 2020 | March 17 - 20, 2020 |
| YGWA-1I | Upgradient | Scan | A-03 |
| YGWA-1D | Upgradient | Scan | A-03 |
| YGWA-2I | Upgradient | Scan | A-03 |
| YGWA-3I | Upgradient | Scan | A-03 |
| YGWA-3D | Upgradient | Scan | A-03 |
| YGWA-14S | Downgradient | Scan | A-03 |
| YGWA-30I | Downgradient | Scan | A-03 |
| YGWC-26S | Downgradient | Scan | A-03 |
| YGWC-26I | Downgradient | Scan | A-03 |
| YGWC-27S | Downgradient | Scan | A-03 |
| YGWC-27I | Downgradient | Scan | A-03 |
| YGWC-28S | Downgradient | Scan | A-03 |
| YGWC-28I | Downgradient | Scan | A-03 |
| YGWC-29I | Downgradient | Scan | A-03 |

Notes:

1. Scan = All wells analyzed per Appendix IV.
2. A-XX indicates the Assessment Event Number (Appendix III and Detected Appendix IV).

Table 3. Summary of Groundwater Elevations
2020 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) |
|-------------------|-----------|--------------------|-----------------------|----------------------------|
| YGWA-1I | 2/10/2020 | 836.60 | 37.37 | 799.23 |
| YGWA-1D | 2/10/2020 | 837.25 | 43.49 | 793.76 |
| YGWA-2I | 2/10/2020 | 866.25 | 45.31 | 820.94 |
| YGWA-3I | 2/10/2020 | 796.55 | 52.22 | 744.33 |
| YGWA-3D | 2/11/2020 | 796.78 | 30.25 | 766.53 |
| YGWA-14S | 2/11/2020 | 748.76 | 15.83 | 732.93 |
| YGWA-30I | 2/11/2020 | 762.58 | 40.62 | 721.96 |
| YGWC-26S | 2/10/2020 | 716.28 | 19.31 | 696.97 |
| YGWC-26I | 2/10/2020 | 715.91 | 21.99 | 693.92 |
| YGWC-27S | 2/10/2020 | 716.52 | 24.39 | 692.13 |
| YGWC-27I | 2/10/2020 | 716.19 | 24.73 | 691.46 |
| YGWC-28S | 2/10/2020 | 717.95 | 21.71 | 696.24 |
| YGWC-28I | 2/10/2020 | 717.93 | 21.97 | 695.96 |
| YGWC-29I | 2/10/2020 | 717.39 | 24.76 | 692.63 |
| PZ-01S | 2/10/2020 | 836.84 | 32.51 | 804.33 |
| PZ-03S | 2/10/2020 | 796.39 | 35.73 | 760.66 |
| PZ-13S | 2/10/2020 | 807.79 | 35.78 | 772.01 |
| PZ-13I | 2/10/2020 | 807.62 | 39.19 | 768.43 |
| PZ-14I | 2/11/2020 | 749.06 | 17.2 | 731.86 |
| PZ-25S | 2/11/2020 | 766.60 | 35.12 | 731.48 |
| PZ-25I | 2/11/2020 | 766.38 | 36.17 | 730.21 |
| PZ-31S | 2/11/2020 | 738.62 | 13.91 | 724.71 |
| March 2020 | | | | |
| YGWA-1I | 3/16/2020 | 836.60 | 34.18 | 802.42 |
| YGWA-1D | 3/16/2020 | 837.25 | 45.52 | 791.73 |
| YGWA-2I | 3/16/2020 | 866.25 | 42.94 | 823.31 |
| YGWA-3I | 3/16/2020 | 796.55 | 52.25 | 744.30 |
| YGWA-3D | 3/16/2020 | 796.78 | 28.98 | 767.80 |
| YGWA-14S | 3/16/2020 | 748.76 | 12.76 | 736.00 |
| YGWA-30I | 3/16/2020 | 762.58 | 38.07 | 724.51 |
| YGWC-26S | 3/16/2020 | 716.28 | 19.71 | 696.57 |
| YGWC-26I | 3/16/2020 | 715.91 | 21.82 | 694.09 |
| YGWC-27S | 3/16/2020 | 716.52 | 24.02 | 692.50 |
| YGWC-27I | 3/16/2020 | 716.19 | 24.23 | 691.96 |
| YGWC-28S | 3/16/2020 | 717.95 | 22.14 | 695.81 |
| YGWC-28I | 3/16/2020 | 717.93 | 22.37 | 695.56 |
| YGWC-29I | 3/16/2020 | 717.39 | 24.64 | 692.75 |
| PZ-01S | 3/16/2020 | 836.84 | 29.97 | 806.87 |
| PZ-03S | 3/16/2020 | 796.39 | 33.3 | 763.09 |
| PZ-13S | 3/16/2020 | 807.79 | 31.98 | 775.81 |
| PZ-13I | 3/16/2020 | 807.62 | 36.45 | 771.17 |
| PZ-14I | 3/16/2020 | 749.06 | 14.54 | 734.52 |
| PZ-25S | 3/16/2020 | 766.60 | 34.63 | 731.97 |
| PZ-25I | 3/16/2020 | 766.38 | 35.98 | 730.40 |
| PZ-31S | 3/16/2020 | 738.62 | 13.93 | 724.69 |

Notes:

* Depth to water recorded from transducer reading on March 17, 2020.

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

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

TOC = top of casing

Equation

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

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

Values Used in Calculation

| Value | | Source |
|--|--|---|
| K _{max} : | 3.02E-03 cm/sec 8.57 ft/day | See note 1 |
| K _{min} : | 1.00E-06 cm/sec 0.003 ft/day | |
| K _{avg} | 1.50E-04 cm/sec 0.43 ft/day | |
| i ₁ = 0.047 i ₂ = 0.027 i ₃ = 0.020 i _{avg} = 0.031 | unitless unitless unitless unitless | Hydraulic gradient from: PZ-01S to YGWA-14S PZ-13S to YGWC-28 YGWA-14 to PZ-31S Average |
| n _e = 0.20 | unitless | See note 2 |

Minimum Linear Flow Velocity

$$V_{min} = \frac{(0.07) (0.031)}{0.20}$$

$$V_{min} = 0.0119 \text{ ft/day, or } 4.34 \text{ ft/year}$$

Maximum Linear Flow Velocity

$$V_{max} = \frac{(8.57) (0.031)}{0.20}$$

$$V_{max} = 1.45 \text{ ft/day, or } 529 \text{ ft/year}$$

Average Linear Flow Velocity

$$V_{avg} = \frac{(0.43)(0.031)}{0.2}$$

$$V_{avg} = 0.073 \text{ ft/day, or } 27 \text{ ft/year}$$

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 1996).

Table 5. Groundwater Analytical Data - February and March 2020
 2020 Semiannual Groundwater Monitoring and Corrective Action Report
 Georgia Power Company
 Plant Yates - AP-2

| Analyte | YGWA-1I | YGWA-1I | YGWA-1D | YGWA-1D | YGWA-2I | YGWA-2I | YGWA-3I | YGWA-3I | |
|--------------|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 2/10/2020 | 3/18/2020 | 2/10/2020 | 3/19/2020 | 2/11/2020 | 3/19/2020 | 2/11/2020 | 3/19/2020 | |
| Appendix III | pH | 6.10 | 6.19 | 7.20 | 7.03 | 7.38 | 7.22 | 7.09 | 7.31 |
| | Boron | -- | 0.0087 J | -- | 0.0085 J | -- | 0.0073 J | -- | 0.0053 J |
| | Calcium | -- | 2.1 | -- | 15.0 | -- | 27.4 | -- | 21.9 |
| | Chloride | -- | 1.4 | -- | 1.1 | -- | 0.97 J | -- | 1.1 |
| | Fluoride | < 0.050 | < 0.050 | 0.061 J | 0.064 J | 0.075 J | 0.093 J | 0.094 J | 0.11 J |
| | Sulfate | -- | 5.3 | -- | 10 | -- | 12.4 | -- | 12.9 |
| | Total Dissolved Solids | -- | 35.0 | -- | 116 | -- | 148 | -- | 148 D6 |
| Appendix IV | Antimony | < 0.00027 | 0.00040 JB | 0.00088 J | < 0.00027 | 0.00036 J | 0.00030 JB | < 0.00027 | < 0.00027B |
| | Arsenic | 0.00050 JB | < 0.00035 | 0.0026 JB | 0.00095 J | 0.0044 JB | 0.00066 J | 0.0041 JB | < 0.00035 |
| | Barium | 0.0091 J | 0.0084 J | 0.0066 J | 0.0076 J | 0.0036 J | 0.0036 J | 0.0031 J | 0.0029 J |
| | Beryllium | < 0.000074 | < 0.000074 | < 0.000074 | < 0.000074 | < 0.000074 | < 0.000074 | < 0.000074 | < 0.000074 |
| | Cadmium | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 |
| | Chromium | < 0.00039 | 0.00044 J | 0.00042 J | 0.00084 J | < 0.00039 | 0.00048 J | < 0.00039 | < 0.00039 |
| | Cobalt | 0.0016 J | 0.00087 J | < 0.00030 | < 0.00030 | < 0.00030 | < 0.00030 | < 0.00030 | < 0.00030 |
| | Fluoride | < 0.050 | < 0.050 | 0.061 J | 0.064 J | 0.075 J | 0.093 J | 0.094 J | 0.11 J |
| | Lead | < 0.000046 | < 0.000046 | 0.000049 J | 0.00012 J | < 0.000046 | < 0.000046 | < 0.000046 | < 0.000046 |
| | Lithium | 0.0023 J | 0.0024 J | 0.011 J | 0.013 J | 0.0012 J | 0.0022 J | 0.013 J | 0.014 J |
| | Mercury | < 0.00014 | -- | < 0.00014 | -- | < 0.00014 | -- | < 0.00014 | -- |
| | Molybdenum | 0.0062 J | 0.0056 J | 0.0087 J | 0.0088 J | 0.0057 J | 0.0046 J | 0.0030 J | 0.0043 J |
| | Combined Radium - 226/228 | 1.25 U | 0.458 U | 1.41 | 1.1 | 0.817 U | 0.715 U | 1.85 | 2.2 |
| | Selenium | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 |
| Thallium | 0.000055 J | < 0.000052 | < 0.000052 | < 0.000052 | < 0.000052 | < 0.000052 | < 0.000052 | < 0.000052 | |

Table 5. Groundwater Analytical Data - February and March 2020
 2020 Semiannual Groundwater Monitoring and Corrective Action Report
 Georgia Power Company
 Plant Yates - AP-2

| Analyte | YGWA-3D | YGWA-3D | YGWA-14S | YGWA-14S | YGWA-30I | YGWA-30I | YGWC-26S | YGWC-26S | |
|--------------|---------------------------|------------|------------|-------------|------------|------------|------------|------------|-----------|
| | 2/12/2020 | 3/19/2020 | 2/12/2020 | 3/18/2020 | 2/12/2020 | 3/19/2020 | 2/13/2020 | 3/19/2020 | |
| Appendix III | pH | 7.83 | 7.65 | 5.48 | 5.38 | 5.80 | 6.00 | 5.29 | 5.46 |
| | Boron | -- | 0.0073 J | -- | 0.033 J | -- | 0.0052 J | -- | 0.73 |
| | Calcium | -- | 31.5 | -- | 1.1 | -- | 1.2 | -- | 13.0 |
| | Chloride | -- | 1.2 | -- | 5.4 | -- | 1.8 | -- | 15.4 |
| | Fluoride | 0.40 | 0.51 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| | Sulfate | -- | 9.0 | -- | 9.9 | -- | 1.6 | -- | 99.4 |
| | Total Dissolved Solids | -- | 146 | -- | 57 | -- | 47.0 | -- | 194 |
| Appendix IV | Antimony | < 0.00027 | 0.00064 JB | 0.00028 J | < 0.00027 | < 0.00027 | < 0.00027 | 0.0016 J | 0.0017 JB |
| | Arsenic | 0.0038 JB | < 0.00035 | < 0.00035 | < 0.00035 | 0.0032 JB | < 0.00035 | < 0.00035 | < 0.00035 |
| | Barium | 0.0062 J | 0.0072 J | 0.0076 J | 0.0080 J | 0.0073 J | 0.0074 J | 0.025 | 0.027 |
| | Beryllium | < 0.000074 | < 0.000074 | 0.00023 J | 0.00021 J | < 0.000074 | < 0.000074 | 0.00015 J | 0.00012 J |
| | Cadmium | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 |
| | Chromium | < 0.00039 | < 0.00039 | < 0.00065 J | < 0.00039 | < 0.00039 | < 0.00039 | 0.0012 J | 0.0018 J |
| | Cobalt | < 0.00030 | < 0.00030 | < 0.00030 | < 0.00030 | 0.014 | 0.014 | 0.0019 J | 0.0021 J |
| | Fluoride | 0.40 | 0.51 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| | Lead | < 0.000046 | 0.00017 J | < 0.000046 | < 0.000046 | < 0.000046 | < 0.000046 | < 0.000046 | 0.00010 J |
| | Lithium | 0.019 J | 0.023 J | < 0.00078 | < 0.00078 | 0.0013 J | 0.0012 J | < 0.00078 | < 0.00078 |
| | Mercury | < 0.00014 | -- | < 0.00014 | -- | < 0.00014 | -- | < 0.00014 | -- |
| | Molybdenum | 0.013 | 0.013 | < 0.00095 | < 0.00095 | < 0.00095 | < 0.00095 | < 0.00095 | < 0.00095 |
| | Combined Radium - 226/228 | 3.87 | 3.96 | 1.11 U | 0.207 U | 0.301 U | 1 | 0.178 | 0.796 U |
| | Selenium | < 0.0013 | < 0.0013 | < 0.0013 | 0.0015 J | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 |
| Thallium | < 0.000052 | < 0.000052 | 0.000089 J | < 0.000052 | < 0.000052 | < 0.000052 | 0.000057 J | 0.000055 J | |

Table 5. Groundwater Analytical Data - February and March 2020
 2020 Semiannual Groundwater Monitoring and Corrective Action Report
 Georgia Power Company
 Plant Yates - AP-2

| Analyte | YGWC-26I | YGWC-26I | YGWC-27S | YGWC-27S | YGWC-27I | YGWC-27I | YGWC-28S | YGWC-28S | |
|--------------|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 2/13/2020 | 3/20/2020 | 2/13/2020 | 3/20/2020 | 2/13/2020 | 3/20/2020 | 2/13/2020 | 3/19/2020 | |
| Appendix III | pH | 5.93 | 5.94 | 6.31 | 6.18 | 6.40 | 6.32 | 6.53 | 6.98 |
| | Boron | -- | 0.94 | -- | 1.4 | -- | 2.1 | -- | 2.5 |
| | Calcium | -- | 17.2 | -- | 42.1 | -- | 30.3 | -- | 30.4 |
| | Chloride | -- | 17.7 | -- | 17.7 | -- | 13.0 | -- | 18.1 |
| | Fluoride | < 0.050 | 0.071 J | 0.11 J | 0.097 J | < 0.050 | < 0.050 | 0.18 J | 0.16 J |
| | Sulfate | -- | 84.7 | -- | 21.1 | -- | 5.2 | -- | 1.7 |
| | Total Dissolved Solids | -- | 211 | -- | 182 | -- | 195 | -- | 202 |
| Appendix IV | Antimony | 0.00052 J | 0.00059 JB | < 0.00027 | 0.00030 JB | < 0.00027 | 0.00033 JB | < 0.00027 | < 0.00027 |
| | Arsenic | < 0.00035 | < 0.00035 | < 0.00035 | < 0.00035 | 0.00055 J | 0.00042 J | 0.00065 J | 0.00051 J |
| | Barium | 0.060 | 0.063 | 0.097 | 0.095 | 0.063 | 0.062 | 0.21 | 0.20 |
| | Beryllium | 0.00014 J | < 0.000074 | < 0.000074 | < 0.000074 | 0.00021 J | 0.00023 J | < 0.000074 | < 0.000074 |
| | Cadmium | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 | < 0.00011 |
| | Chromium | 0.00044 J | 0.00093 J | < 0.00039 | 0.00050 J | < 0.00039 | < 0.00039 | < 0.00039 | 0.00049 J |
| | Cobalt | < 0.00030 | < 0.00030 | 0.0026 J | 0.0022 J | 0.012 | 0.014 | 0.00092 J | 0.00093 J |
| | Fluoride | < 0.050 | 0.071 J | 0.11 J | 0.097 J | < 0.050 | < 0.050 | 0.18 J | 0.16 J |
| | Lead | < 0.000046 | 0.000071 J | 0.000062 J | 0.000085 J | < 0.000046 | < 0.000046 | 0.000054 J | 0.000075 J |
| | Lithium | 0.0073 J | 0.0072 J | < 0.00078 | < 0.00078 | 0.0079 J | 0.0091 J | < 0.00078 | < 0.00078 |
| | Mercury | < 0.00014 | -- | < 0.00014 | -- | < 0.00014 | -- | < 0.00014 | -- |
| | Molybdenum | < 0.00095 | < 0.00095 | < 0.00095 | < 0.00095 | 0.0014 J | 0.0014 J | < 0.00095 | < 0.00095 |
| | Combined Radium - 226/228 | 1.86 | 2.03 | 0.961 U | 1.50 | 4.48 | 4.13 | 1.04 | 1.01 U |
| | Selenium | 0.0019 J | 0.0022 J | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 |
| Thallium | < 0.000052 | < 0.000052 | 0.00010 J | 0.00011 J | < 0.000052 | < 0.000052 | < 0.000052 | < 0.000052 | |

Table 5. Groundwater Analytical Data - February and March 2020
 2020 Semiannual Groundwater Monitoring and Corrective Action Report
 Georgia Power Company
 Plant Yates - AP-2

| Analyte | YGWC-28I | YGWC-28I | YGWC-29I | YGWC-29I | |
|--------------|---------------------------|------------|------------|------------|------------|
| | 2/13/2020 | 3/19/2020 | 2/13/2020 | 3/20/2020 | |
| Appendix III | pH | 6.49 | 7.01 | 6.32 | 6.17 |
| | Boron | -- | 2.4 | -- | 0.80 |
| | Calcium | -- | 37.3 | -- | 12.7 |
| | Chloride | -- | 16.0 | -- | 11.3 |
| | Fluoride | 0.14 J | 0.070 J | 0.053 J | 0.057 J |
| | Sulfate | -- | 9.1 | -- | 33.0 |
| | Total Dissolved Solids | -- | 212 | -- | 137 |
| Appendix IV | Antimony | < 0.00027 | < 0.00027 | < 0.00027 | < 0.00027 |
| | Arsenic | < 0.00035 | < 0.00035 | < 0.00035 | < 0.00035 |
| | Barium | 0.089 | 0.089 | 0.053 | 0.057 |
| | Beryllium | < 0.000074 | < 0.000074 | < 0.000074 | < 0.000074 |
| | Cadmium | 0.00013 J | 0.00016 J | 0.00018 J | 0.00022 J |
| | Chromium | 0.00047 J | < 0.00039 | < 0.00039 | < 0.00039 |
| | Cobalt | < 0.00030 | < 0.00030 | < 0.00030 | < 0.00030 |
| | Fluoride | 0.14 J | 0.070 J | 0.053 J | 0.057 J |
| | Lead | < 0.000046 | < 0.000046 | < 0.000046 | < 0.000046 |
| | Lithium | 0.0069 J | 0.0070 J | 0.0057 J | 0.0051 J |
| | Mercury | < 0.00014 | -- | < 0.00014 | -- |
| | Molybdenum | 0.0013 J | 0.0014 J | < 0.00095 | < 0.00095 |
| | Combined Radium - 226/228 | 1.12 U | 0.913 U | 0.806 U | 1.42 |
| | Selenium | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 |
| Thallium | < 0.000052 | < 0.000052 | < 0.000052 | < 0.000052 | |

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.
 2. Appendix III = Indicator parameters evaluated during Detection Monitoring.
 3. Appendix IV = Parameters evaluated during Assessment Monitoring.
- Not analyzed for this constituent.
< Analyte was not detected above the laboratory method detection limit (MDL).
NA = Not applicable; analyte does not have an MCL, but will be further evaluated statistically, as required by the USEPA Coal Combustion Residuals rule.

Laboratory Qualifiers:

- B = Analyte was detected in associated method blank.
D6 = The precision between the sample and sample duplicate exceeded laboratory control limits.
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

**Table 6. Background Levels and Groundwater Protection Standards
2020 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2**



| Constituent | Units | Background | Federal GWPS | State GWPS |
|---------------------------|-------|------------|--------------|------------|
| Antimony | mg/L | 0.003 | 0.006 | 0.006 |
| Arsenic | mg/L | 0.005 | 0.01 | 0.01 |
| Barium | mg/L | 0.012 | 2 | 2 |
| Beryllium | mg/L | 0.003 | 0.004 | 0.004 |
| Cadmium | mg/L | 0.0025 | 0.005 | 0.005 |
| Chromium | mg/L | 0.01 | 0.1 | 0.1 |
| Cobalt | mg/L | 0.035 | 0.035 | 0.035 |
| Combined Radium - 226/228 | pCi/L | 4.1 | 5 | 5 |
| Fluoride | mg/L | 0.68 | 4 | 4 |
| Lead | mg/L | 0.005 | 0.015 | 0.005 |
| Lithium | mg/L | 0.03 | 0.04 | 0.03 |
| Mercury | mg/L | 0.0005 | 0.002 | 0.002 |
| Molybdenum | mg/L | 0.014 | 0.1 | 0.014 |
| Selenium | mg/L | 0.01 | 0.05 | 0.05 |
| Thallium | mg/L | 0.001 | 0.002 | 0.002 |

Notes:

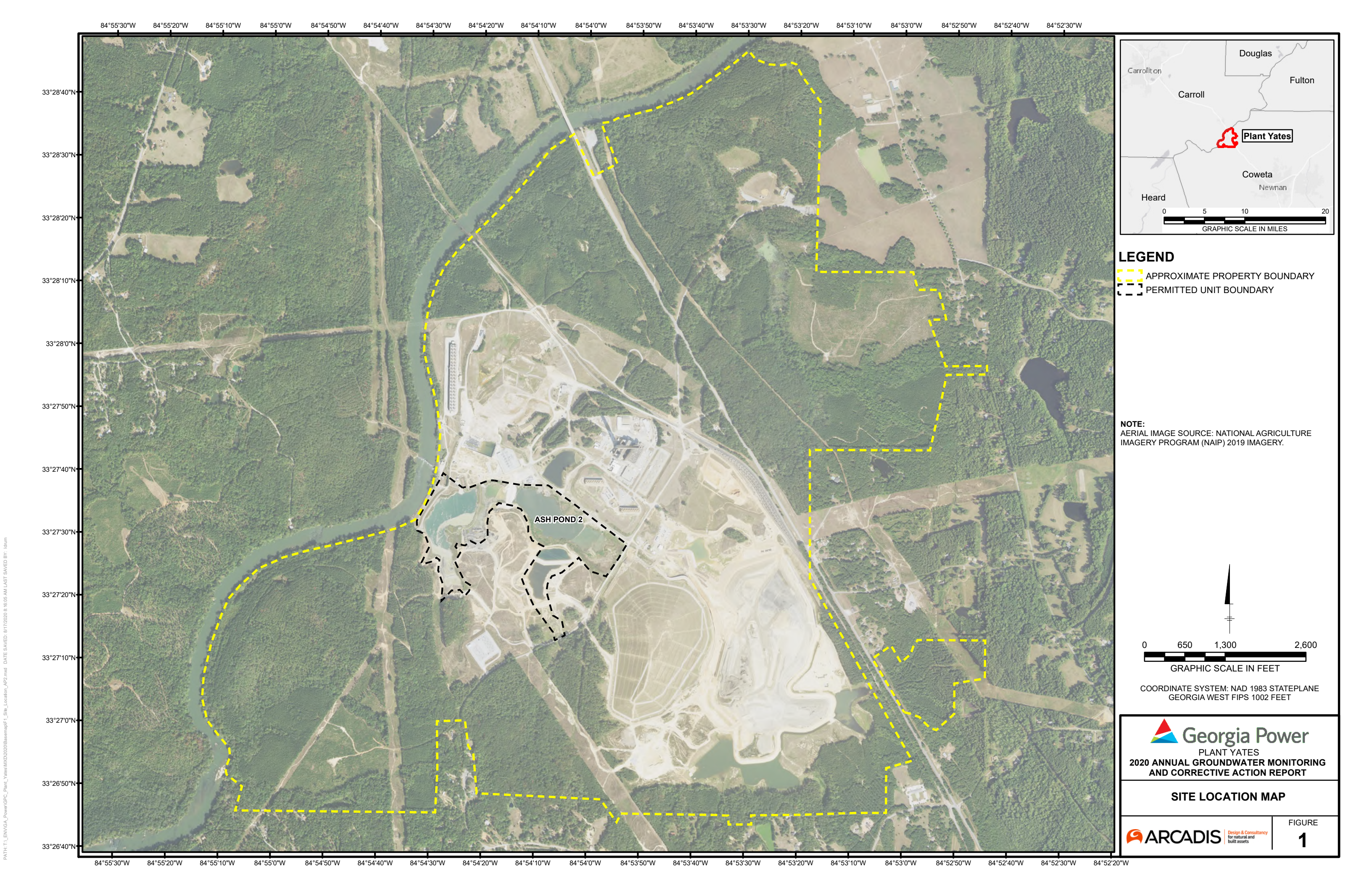
1. Site background: Tolerance limits calculated from pooled upgradient well data.
2. Federal GWPS = Groundwater Protection Standard per 40 CFR §257.95(h).
3. The background tolerance limit (TL) used to evaluate the cobalt State GWPS is greater than the federally promulgated level of 0.006 mg/L.

Acronyms and Abbreviations:

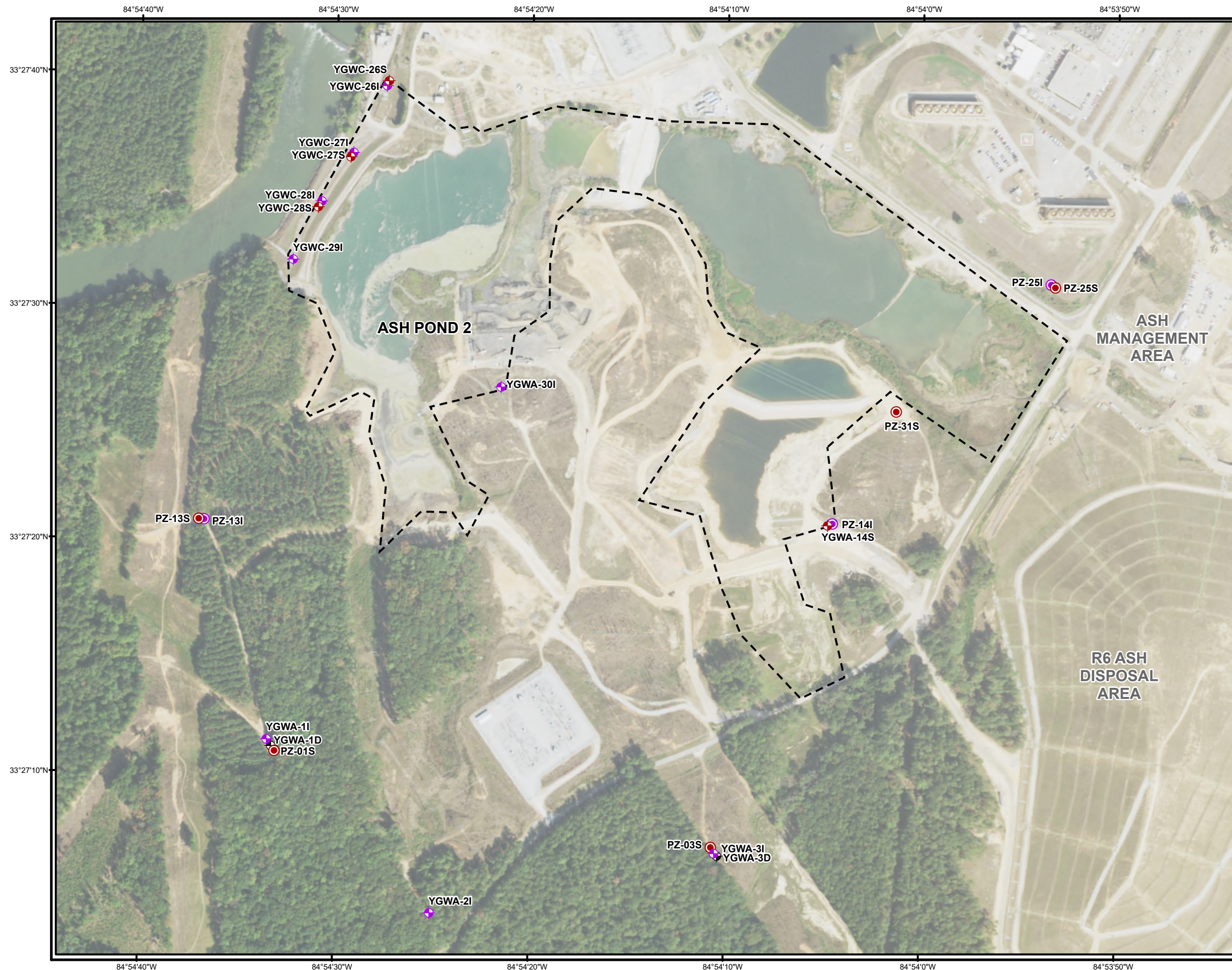
mg/L = milligrams per liter
pCi/L = picocuries per liter

FIGURES





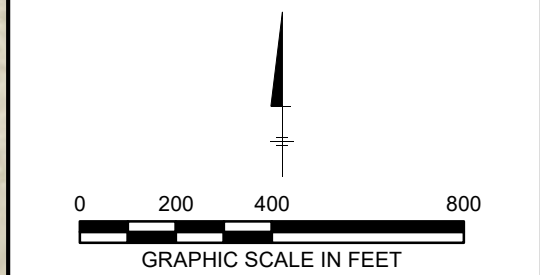
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LEGEND

- 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 SOURCE: NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

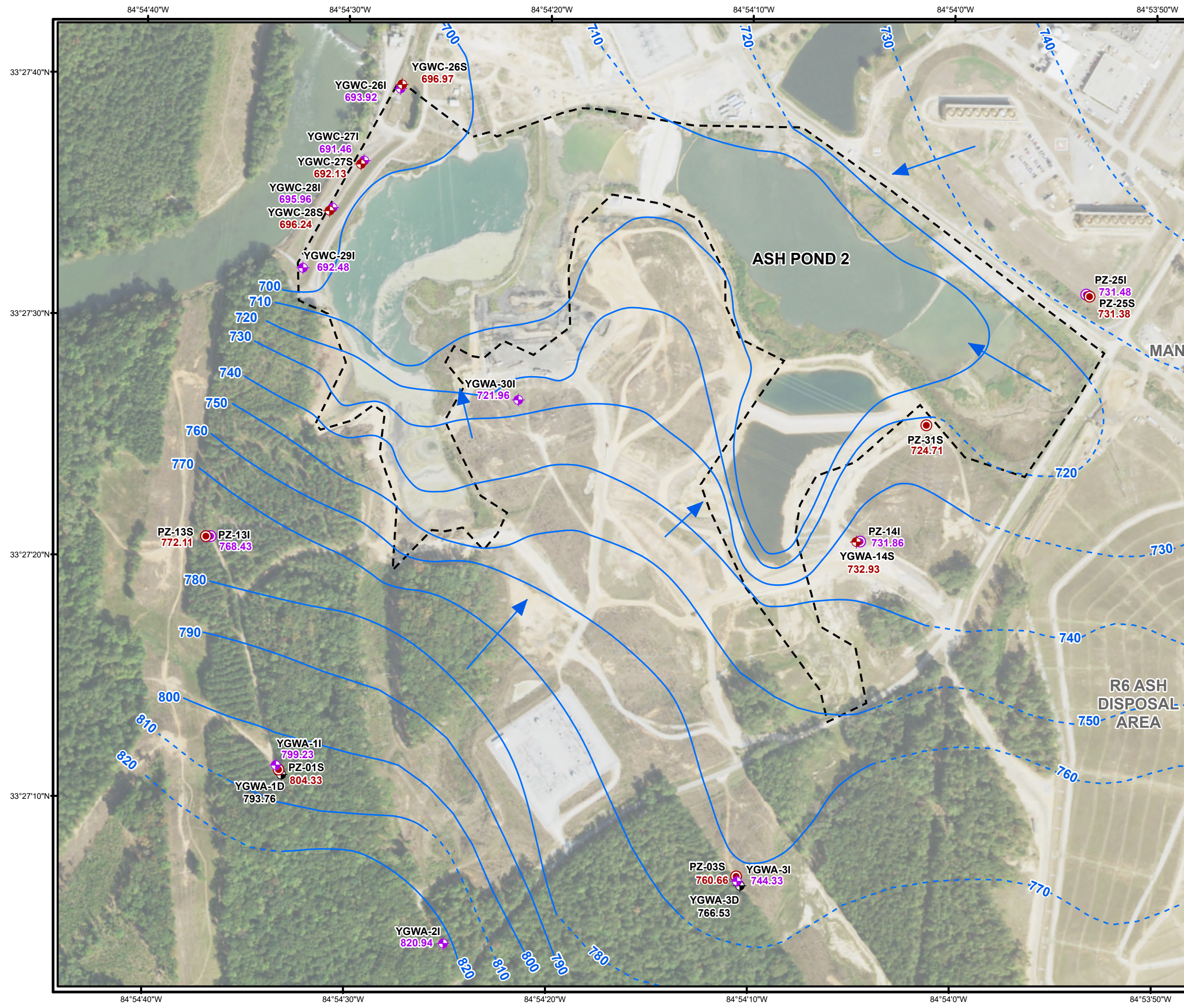
Georgia Power
 PLANT YATES
 SEMI-ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT - 1H2020

WELL LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

PATH: T:\ENVOA_Power\GFC_Plant_Yates\Map\F2_Well_Map_AP2_v2.mxd DATE SAVED: 6/19/2020 12:51:12 PM LAST SAVED BY: lbrum



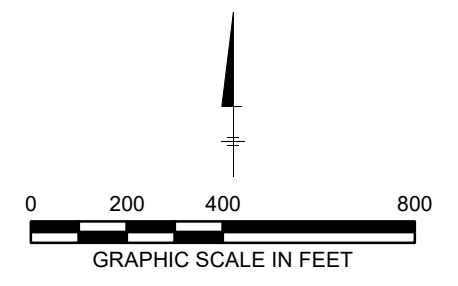
LEGEND

- 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

736.01 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 SOURCE: NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET

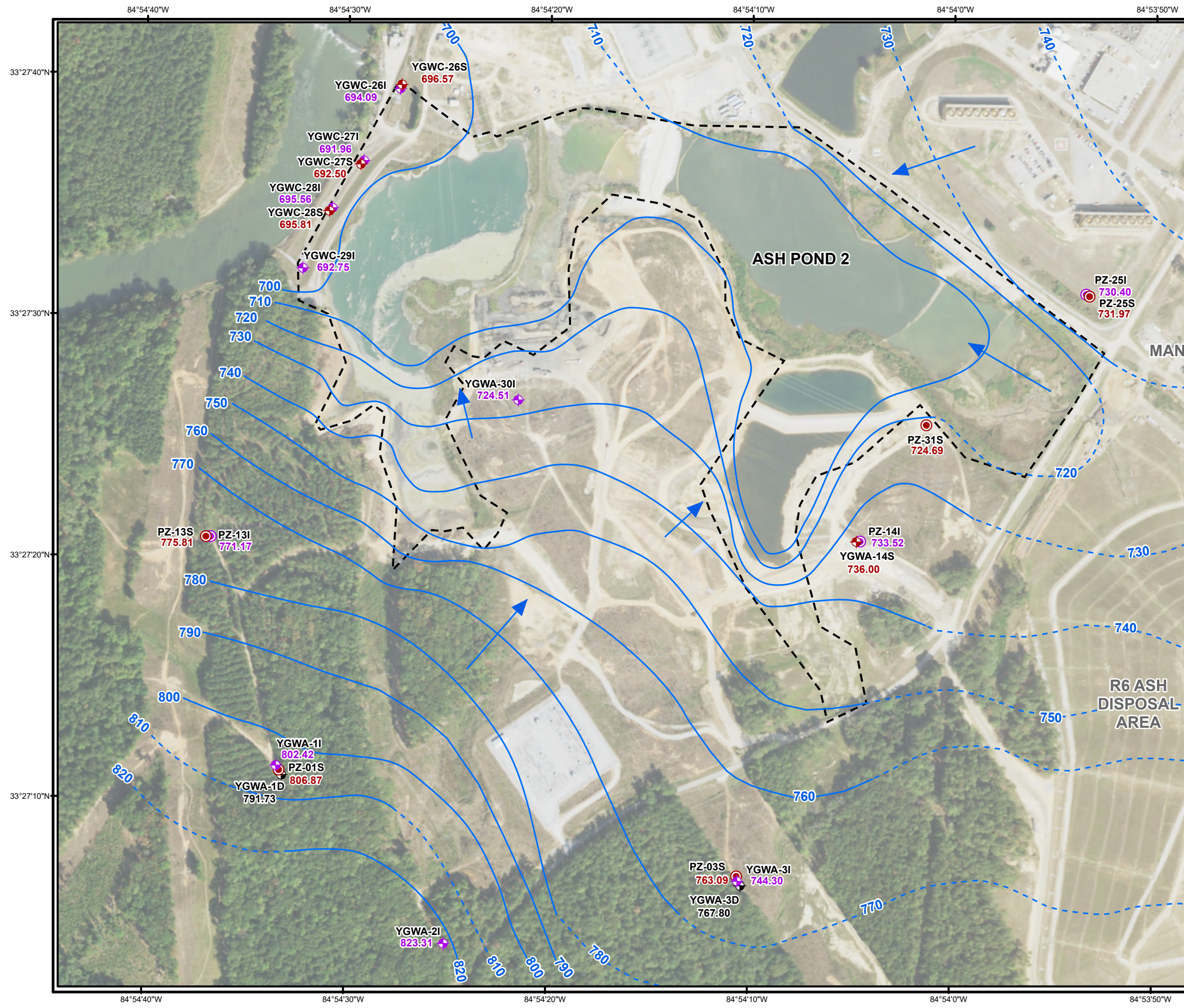
Georgia Power
PLANT YATES
SEMI-ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT - 1H2020

GROUNDWATER ELEVATION MAP
FEBRUARY 2020

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FIGURE
3

PATH: T:\EN\GVA_Power\GFC_Plant_Yates\MD\2020\GW_Contours_2020\FX_GWE_Feb2020_AP2_SAP_TRANS.mxd DATE SAVED: 8/13/2020 3:31:33 PMLAST SAVED BY: bdm



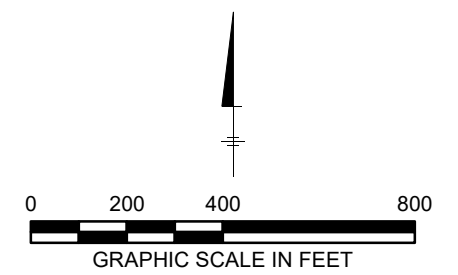
LEGEND

- 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

736.01 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 SOURCE: NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES
**SEMI-ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT - 1H2020**

**GROUNDWATER ELEVATION MAP
MARCH 2020**

ARCADIS Design & Consultancy
for natural and
built assets

FIGURE
4

PATH: T:\EN\GA_Power\GFC_Plant_Yates\MD\2020\GW_Contours_2020\F3_OWE_March2020_Ap2_SAP_TRANS.mxd DATE SAVED: 01/30/2020 3:32:02 PM LAST SAVED BY: lbrm

APPENDIX A

Field Sampling Forms (February and March 2020)



Low-Flow Test Report:

Test Date / Time: 2/13/2020 11:01:59 AM

Project: Plant Yates - Ash Pond 2

Operator Name: Hunter Auld

| | | |
|--|---|--|
| Location Name: YGWC-26I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 59 ft Total Depth: 69.71 ft Initial Depth to Water: 21.15 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 64 ft Estimated Total Volume Pumped: 3.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 1.8 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|--|---|--|

Test Notes:

Sampled at 1130 on 2-13-20.

Weather Conditions:

Cloudy, 60s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 300 | +/- 0.3 | |
| 2/13/2020 11:01 AM | 00:00 | 5.82 pH | 19.90 °C | 0.00 µS/cm | 8.80 mg/L | | 78.5 mV | 21.15 ft | 120.00 ml/min |
| 2/13/2020 11:06 AM | 05:00 | 6.34 pH | 17.72 °C | 235.22 µS/cm | 1.33 mg/L | 2.00 NTU | 25.7 mV | 21.30 ft | 120.00 ml/min |
| 2/13/2020 11:11 AM | 10:00 | 5.96 pH | 18.21 °C | 233.03 µS/cm | 0.49 mg/L | 1.60 NTU | 71.9 mV | 21.30 ft | 120.00 ml/min |
| 2/13/2020 11:16 AM | 15:00 | 5.94 pH | 18.34 °C | 232.59 µS/cm | 0.37 mg/L | 1.00 NTU | 70.1 mV | 21.30 ft | 120.00 ml/min |
| 2/13/2020 11:21 AM | 20:00 | 5.93 pH | 18.40 °C | 233.73 µS/cm | 0.29 mg/L | 1.20 NTU | 96.6 mV | 21.30 ft | 120.00 ml/min |
| 2/13/2020 11:26 AM | 25:00 | 5.93 pH | 18.44 °C | 235.44 µS/cm | 0.23 mg/L | 1.50 NTU | 75.5 mV | 21.30 ft | 120.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 2/13/2020 10:11:28 AM

Project: Plant Yates - Ash Pond 2

Operator Name: Hunter Auld

| | | |
|--|--|--|
| Location Name: YGWC-26S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30 ft Total Depth: 40.26 ft Initial Depth to Water: 18.56 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 6.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 13.7 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|--|--|--|

Test Notes:

Sampled at 1040 on 2-13-20. Extra rad.

Weather Conditions:

Cloudy, 60s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 300 | +/- 0.3 | |
| 2/13/2020 10:11 AM | 00:00 | 5.28 pH | 18.17 °C | 231.93 µS/cm | 3.00 mg/L | | 152.7 mV | 18.56 ft | 150.00 ml/min |
| 2/13/2020 10:16 AM | 05:00 | 5.24 pH | 17.96 °C | 222.17 µS/cm | 2.30 mg/L | 1.90 NTU | 121.4 mV | 19.60 ft | 150.00 ml/min |
| 2/13/2020 10:21 AM | 10:00 | 5.25 pH | 18.02 °C | 219.79 µS/cm | 1.96 mg/L | 1.90 NTU | 185.3 mV | 19.60 ft | 150.00 ml/min |
| 2/13/2020 10:26 AM | 15:00 | 5.26 pH | 18.02 °C | 220.01 µS/cm | 1.83 mg/L | 1.80 NTU | 187.6 mV | 19.70 ft | 150.00 ml/min |
| 2/13/2020 10:31 AM | 20:00 | 5.28 pH | 18.03 °C | 220.52 µS/cm | 1.81 mg/L | 1.80 NTU | 186.6 mV | 19.70 ft | 150.00 ml/min |
| 2/13/2020 10:36 AM | 25:00 | 5.29 pH | 18.08 °C | 220.94 µS/cm | 1.72 mg/L | 1.70 NTU | 186.1 mV | 19.70 ft | 150.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 2/13/2020 9:49:41 AM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

| | | |
|---|---|--|
| Location Name: YGWC-27I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69 ft Total Depth: 79.84 ft Initial Depth to Water: 24.7 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 75 ft Estimated Total Volume Pumped: 4.8 L Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 714302 |
|---|---|--|

Test Notes:

Sample time 1025

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 100 | +/- 100 | +/- 0.3 | |
| 2/13/2020 9:49 AM | 00:00 | 6.51 pH | 18.45 °C | 283.82 µS/cm | 1.08 mg/L | 3.20 NTU | -81.6 mV | 24.70 ft | 160.00 ml/min |
| 2/13/2020 9:54 AM | 05:00 | 6.47 pH | 18.13 °C | 284.37 µS/cm | 0.64 mg/L | 2.30 NTU | -89.3 mV | 24.70 ft | 160.00 ml/min |
| 2/13/2020 9:59 AM | 10:00 | 6.45 pH | 18.03 °C | 286.84 µS/cm | 0.49 mg/L | 1.50 NTU | -95.3 mV | 24.70 ft | 160.00 ml/min |
| 2/13/2020 10:04 AM | 15:00 | 6.44 pH | 18.06 °C | 288.90 µS/cm | 0.37 mg/L | 1.30 NTU | -96.5 mV | 24.70 ft | 160.00 ml/min |
| 2/13/2020 10:09 AM | 20:00 | 6.42 pH | 18.07 °C | 288.37 µS/cm | 0.32 mg/L | 0.90 NTU | -88.1 mV | 24.70 ft | 160.00 ml/min |
| 2/13/2020 10:14 AM | 25:00 | 6.41 pH | 18.03 °C | 286.12 µS/cm | 0.30 mg/L | 0.80 NTU | -93.1 mV | 24.70 ft | 160.00 ml/min |
| 2/13/2020 10:19 AM | 30:00 | 6.40 pH | 17.98 °C | 286.99 µS/cm | 0.29 mg/L | 0.60 NTU | -85.3 mV | 24.70 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 2/13/2020 10:52:26 AM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

| | | |
|--|---|--|
| Location Name: YGWC-27S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.2 ft Total Depth: 40.26 ft Initial Depth to Water: 23.34 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35.2 ft Estimated Total Volume Pumped: 9.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 1 in | Instrument Used: Aqua TROLL 400 Serial Number: 714302 |
|--|---|--|

Test Notes:

Sample time 1150

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 100 | +/- 100 | +/- 0.3 | |
| 2/13/2020 10:52 AM | 00:00 | 6.32 pH | 18.45 °C | 360.28 µS/cm | 3.47 mg/L | 5.60 NTU | -28.1 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 10:57 AM | 05:00 | 6.30 pH | 18.51 °C | 365.42 µS/cm | 3.06 mg/L | 5.40 NTU | -16.1 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 11:02 AM | 10:00 | 6.30 pH | 18.47 °C | 377.92 µS/cm | 1.87 mg/L | 6.10 NTU | -38.1 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 11:07 AM | 15:00 | 6.31 pH | 18.46 °C | 375.35 µS/cm | 3.91 mg/L | 4.30 NTU | -40.6 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 11:12 AM | 20:00 | 6.32 pH | 18.46 °C | 338.22 µS/cm | 1.59 mg/L | 5.60 NTU | -42.2 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 11:17 AM | 25:00 | 6.29 pH | 18.59 °C | 361.49 µS/cm | 1.65 mg/L | 5.00 NTU | -42.9 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 11:22 AM | 30:00 | 6.32 pH | 18.52 °C | 365.88 µS/cm | 1.66 mg/L | 5.00 NTU | -45.0 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 11:27 AM | 35:00 | 6.31 pH | 18.43 °C | 377.41 µS/cm | 1.96 mg/L | 4.10 NTU | -45.3 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 11:32 AM | 40:00 | 6.32 pH | 18.43 °C | 315.95 µS/cm | 1.46 mg/L | 4.00 NTU | -45.8 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 11:37 AM | 45:00 | 6.33 pH | 18.45 °C | 381.25 µS/cm | 1.82 mg/L | 3.80 NTU | -48.0 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 11:42 AM | 50:00 | 6.32 pH | 18.49 °C | 380.16 µS/cm | 1.46 mg/L | 3.50 NTU | -47.5 mV | 23.40 ft | 180.00 ml/min |
| 2/13/2020 11:47 AM | 55:00 | 6.31 pH | 18.56 °C | 383.43 µS/cm | 0.28 mg/L | 3.10 NTU | -47.8 mV | 23.40 ft | 180.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/13/2020 2:07:16 PM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

| | | |
|--|---|--|
| Location Name: YGWC-28I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 59.9 ft Total Depth: 69.89 ft Initial Depth to Water: 21.15 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 64.9 ft Estimated Total Volume Pumped: 5.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 8 in | Instrument Used: Aqua TROLL 400 Serial Number: 714302 |
|--|---|--|

Test Notes:

Sample time: 1450

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 100 | +/- 100 | +/- 0.3 | |
| 2/13/2020 2:07 PM | 00:00 | 6.59 pH | 19.33 °C | 306.47 µS/cm | 4.59 mg/L | 1.40 NTU | -62.3 mV | 21.70 ft | 130.00 ml/min |
| 2/13/2020 2:12 PM | 05:00 | 6.52 pH | 18.47 °C | 332.35 µS/cm | 3.39 mg/L | 1.10 NTU | -41.0 mV | 21.80 ft | 130.00 ml/min |
| 2/13/2020 2:17 PM | 10:00 | 6.54 pH | 18.52 °C | 357.05 µS/cm | 3.39 mg/L | 1.30 NTU | -22.8 mV | 21.80 ft | 130.00 ml/min |
| 2/13/2020 2:22 PM | 15:00 | 6.55 pH | 18.47 °C | 354.96 µS/cm | 4.08 mg/L | 1.60 NTU | -40.4 mV | 21.80 ft | 130.00 ml/min |
| 2/13/2020 2:27 PM | 20:00 | 6.50 pH | 17.67 °C | 357.40 µS/cm | 1.56 mg/L | 0.80 NTU | -11.0 mV | 21.80 ft | 130.00 ml/min |
| 2/13/2020 2:32 PM | 25:00 | 6.49 pH | 18.25 °C | 351.63 µS/cm | 1.92 mg/L | 0.90 NTU | 8.1 mV | 21.80 ft | 130.00 ml/min |
| 2/13/2020 2:37 PM | 30:00 | 6.50 pH | 18.12 °C | 360.01 µS/cm | 1.58 mg/L | 0.80 NTU | -5.1 mV | 21.80 ft | 130.00 ml/min |
| 2/13/2020 2:42 PM | 35:00 | 6.50 pH | 17.95 °C | 357.62 µS/cm | 1.53 mg/L | 0.70 NTU | -34.1 mV | 21.80 ft | 130.00 ml/min |
| 2/13/2020 2:47 PM | 40:00 | 6.49 pH | 17.80 °C | 356.66 µS/cm | 1.55 mg/L | 0.70 NTU | -35.8 mV | 21.80 ft | 130.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 2/13/2020 12:33:55 PM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

| | | |
|--|--|--|
| Location Name: YGWC-28S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.8 ft Total Depth: 44.85 ft Initial Depth to Water: 21.08 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 39.8 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 215 ml/min Final Draw Down: 6 in | Instrument Used: Aqua TROLL 400 Serial Number: 714302 |
|--|--|--|

Test Notes:

Sample time: 1345

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 100 | +/- 100 | +/- 0.3 | |
| 2/13/2020 12:33 PM | 00:00 | 6.55 pH | 18.40 °C | 349.18 µS/cm | 4.70 mg/L | 18.10 NTU | -132.7 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 12:38 PM | 05:00 | 6.56 pH | 18.88 °C | 375.87 µS/cm | 2.82 mg/L | 10.10 NTU | -175.6 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 12:43 PM | 10:00 | 6.56 pH | 18.92 °C | 378.86 µS/cm | 6.92 mg/L | 8.60 NTU | -178.9 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 12:48 PM | 15:00 | 6.54 pH | 18.74 °C | 381.47 µS/cm | 6.67 mg/L | 8.50 NTU | -179.3 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 12:53 PM | 20:00 | 6.55 pH | 18.70 °C | 379.12 µS/cm | 6.47 mg/L | 9.10 NTU | -177.2 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 12:58 PM | 25:00 | 6.52 pH | 18.84 °C | 371.88 µS/cm | 1.51 mg/L | 9.00 NTU | -177.2 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 1:03 PM | 30:00 | 6.52 pH | 18.92 °C | 381.69 µS/cm | 3.39 mg/L | 9.00 NTU | -175.3 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 1:08 PM | 35:00 | 6.51 pH | 18.87 °C | 382.76 µS/cm | 4.31 mg/L | 7.80 NTU | -172.8 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 1:13 PM | 40:00 | 6.51 pH | 18.78 °C | 382.58 µS/cm | 5.36 mg/L | 6.50 NTU | -162.6 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 1:18 PM | 45:00 | 6.50 pH | 18.76 °C | 386.71 µS/cm | 2.40 mg/L | 5.80 NTU | -172.5 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 1:23 PM | 50:00 | 6.51 pH | 18.76 °C | 383.69 µS/cm | 3.02 mg/L | 5.60 NTU | -168.2 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 1:28 PM | 55:00 | 6.51 pH | 18.78 °C | 380.96 µS/cm | 4.44 mg/L | 5.50 NTU | -160.5 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 1:33 PM | 01:00:00 | 6.55 pH | 18.87 °C | 409.28 µS/cm | 0.32 mg/L | 4.20 NTU | -173.8 mV | 21.60 ft | 215.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|--------------|-----------|----------|-----------|----------|---------------|
| 2/13/2020 1:38 PM | 01:05:00 | 6.54 pH | 18.82 °C | 408.42 µS/cm | 0.18 mg/L | 4.50 NTU | -162.6 mV | 21.60 ft | 215.00 ml/min |
| 2/13/2020 1:43 PM | 01:10:00 | 6.53 pH | 18.83 °C | 408.21 µS/cm | 0.16 mg/L | 4.30 NTU | -162.5 mV | 21.60 ft | 215.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 2/13/2020 12:35:15 PM

Project: Plant Yates - Ash Pond 2

Operator Name: Hunter Auld

| | | |
|--|---|--|
| Location Name: YGWC-29I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29 ft Total Depth: 39.46 ft Initial Depth to Water: 23.93 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 9.2 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|--|---|--|

Test Notes:

Sampled at 1302 on 2-13-20.

Weather Conditions:

Cloudy, 50s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 300 | +/- 0.3 | |
| 2/13/2020 12:35 PM | 00:00 | 6.94 pH | 17.22 °C | 186.32 µS/cm | 7.22 mg/L | | 54.1 mV | 23.93 ft | 100.00 ml/min |
| 2/13/2020 12:40 PM | 05:00 | 6.42 pH | 17.89 °C | 190.71 µS/cm | 3.53 mg/L | 1.40 NTU | 66.9 mV | 24.30 ft | 100.00 ml/min |
| 2/13/2020 12:45 PM | 10:00 | 6.33 pH | 18.00 °C | 188.29 µS/cm | 1.82 mg/L | 1.20 NTU | 95.7 mV | 24.30 ft | 100.00 ml/min |
| 2/13/2020 12:50 PM | 15:00 | 6.31 pH | 17.69 °C | 189.02 µS/cm | 1.03 mg/L | 0.90 NTU | 100.2 mV | 24.50 ft | 100.00 ml/min |
| 2/13/2020 12:55 PM | 20:00 | 6.32 pH | 17.78 °C | 189.99 µS/cm | 1.00 mg/L | 0.90 NTU | 101.7 mV | 24.60 ft | 100.00 ml/min |
| 2/13/2020 1:00 PM | 25:00 | 6.32 pH | 18.07 °C | 189.14 µS/cm | 1.09 mg/L | 0.80 NTU | 76.9 mV | 24.70 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 2/10/2020 2:17:57 PM

Project: Plant Yates - AP 2

Operator Name: O. Fuquea

| | | |
|--|--|--|
| Location Name: YGWA-1D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 178.6 ft Total Depth: 128.6 ft Initial Depth to Water: 48.39 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 123.6 ft Estimated Total Volume Pumped: 5.3 L Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|--|--|--|

Test Notes:

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/10/2020 2:17 PM | 00:00 | 7.21 pH | 14.39 °C | 162.71 µS/cm | 0.32 mg/L | | -38.3 mV | 48.39 ft | 150.00 ml/min |
| 2/10/2020 2:22 PM | 05:00 | 7.23 pH | 14.62 °C | 157.02 µS/cm | 0.25 mg/L | 2.30 NTU | -83.3 mV | 48.50 ft | 150.00 ml/min |
| 2/10/2020 2:23 PM | 05:21 | 7.23 pH | 14.62 °C | 156.66 µS/cm | 0.25 mg/L | 1.60 NTU | -82.8 mV | 48.50 ft | 150.00 ml/min |
| 2/10/2020 2:28 PM | 10:21 | 7.21 pH | 14.57 °C | 154.65 µS/cm | 0.24 mg/L | 1.50 NTU | -50.3 mV | 48.60 ft | 150.00 ml/min |
| 2/10/2020 2:33 PM | 15:21 | 7.22 pH | 14.57 °C | 152.24 µS/cm | 0.23 mg/L | 1.41 NTU | -50.4 mV | 48.60 ft | 150.00 ml/min |
| 2/10/2020 2:38 PM | 20:21 | 7.21 pH | 14.66 °C | 150.44 µS/cm | 0.23 mg/L | 1.52 NTU | -50.5 mV | 48.60 ft | 150.00 ml/min |
| 2/10/2020 2:43 PM | 25:21 | 7.21 pH | 14.58 °C | 149.33 µS/cm | 0.23 mg/L | 1.14 NTU | -49.0 mV | 48.60 ft | 150.00 ml/min |
| 2/10/2020 2:48 PM | 30:21 | 7.21 pH | 14.58 °C | 148.50 µS/cm | 0.23 mg/L | 1.11 NTU | -47.4 mV | 48.60 ft | 150.00 ml/min |
| 2/10/2020 2:53 PM | 35:21 | 7.20 pH | 14.50 °C | 147.47 µS/cm | 0.23 mg/L | 1.22 NTU | -44.0 mV | 48.60 ft | 150.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|----------------------------|
| YGWA-1D | Sampled at 1453. 53F rain. |

Low-Flow Test Report:

Test Date / Time: 2/10/2020 2:32:55 PM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

| | | |
|---|--|--|
| Location Name: YGWA-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 44.9 ft Total Depth: 54.93 ft Initial Depth to Water: 37.37 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 49.9 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 60 ml/min Final Draw Down: 4 in | Instrument Used: Aqua TROLL 400 Serial Number: 714302 |
|---|--|--|

Test Notes:

Weather Conditions:

Raining

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|--------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 100 | +/- 100 | +/- 0.3 | |
| 2/10/2020 2:32 PM | 00:00 | 8.56 pH | 12.22 °C | 0.00 µS/cm | 10.55 mg/L | | 37.7 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 2:33 PM | 00:43 | 8.55 pH | 12.26 °C | 0.00 µS/cm | 10.54 mg/L | | 154.5 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 2:38 PM | 05:43 | 6.35 pH | 13.58 °C | 134.96 µS/cm | 3.94 mg/L | 10.80 NTU | 137.5 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 2:43 PM | 10:43 | 6.38 pH | 13.49 °C | 80.04 µS/cm | 2.36 mg/L | 1.20 NTU | 76.2 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 2:48 PM | 15:43 | 6.35 pH | 13.32 °C | 72.51 µS/cm | 4.66 mg/L | 1.40 NTU | 72.8 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 2:53 PM | 20:43 | 6.30 pH | 13.12 °C | 69.32 µS/cm | 4.60 mg/L | 1.60 NTU | 73.5 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 2:58 PM | 25:43 | 6.28 pH | 13.12 °C | 65.70 µS/cm | 7.35 mg/L | 1.80 NTU | 74.9 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 3:03 PM | 30:43 | 6.20 pH | 13.21 °C | 61.64 µS/cm | 7.96 mg/L | 1.70 NTU | 79.7 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 3:08 PM | 35:43 | 6.18 pH | 14.67 °C | 53.76 µS/cm | 9.21 mg/L | 1.20 NTU | 84.9 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 3:13 PM | 40:43 | 6.12 pH | 14.76 °C | 50.84 µS/cm | 9.11 mg/L | 1.30 NTU | 92.4 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 3:18 PM | 45:43 | 6.09 pH | 14.81 °C | 51.27 µS/cm | 9.06 mg/L | 1.20 NTU | 92.3 mV | 38.70 ft | 60.00 ml/min |
| 2/10/2020 3:19 PM | 46:51 | 6.10 pH | 14.85 °C | 52.62 µS/cm | 9.15 mg/L | 1.05 NTU | 95.3 mV | 38.70 ft | 60.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|----------------------------|
| YGWA-1I | Collect at 1521. 53F rain. |

Low-Flow Test Report:

Test Date / Time: 2/11/2020 10:53:54 AM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

| | | |
|---|--|--|
| Location Name: YGWA-2I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 55.7 ft Total Depth: 65.74 ft Initial Depth to Water: 45.31 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 60 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 9.6 in | Instrument Used: Aqua TROLL 400 Serial Number: 714302 |
|---|--|--|

Test Notes:

Sample time: 1210. Rainy 50s

Weather Conditions:

Rainy 50s

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|--------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 100 | +/- 100 | +/- 0.3 | |
| 2/11/2020 10:53 AM | 00:00 | 7.81 pH | 19.05 °C | 195.72 µS/cm | 9.11 mg/L | | 184.6 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 10:58 AM | 05:00 | 7.60 pH | 17.40 °C | 177.47 µS/cm | 9.60 mg/L | 1.80 NTU | 104.5 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:03 AM | 10:00 | 7.43 pH | 17.67 °C | 198.05 µS/cm | 4.93 mg/L | 1.60 NTU | -33.9 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:08 AM | 15:00 | 7.45 pH | 18.01 °C | 195.98 µS/cm | 4.98 mg/L | 1.50 NTU | -45.4 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:13 AM | 20:00 | 7.44 pH | 18.16 °C | 196.66 µS/cm | 5.37 mg/L | 1.20 NTU | -52.9 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:18 AM | 25:00 | 7.44 pH | 18.21 °C | 192.62 µS/cm | 6.51 mg/L | 1.50 NTU | -71.2 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:23 AM | 30:00 | 7.45 pH | 18.25 °C | 191.63 µS/cm | 6.59 mg/L | 0.60 NTU | -79.7 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:28 AM | 35:00 | 7.44 pH | 18.38 °C | 188.88 µS/cm | 4.09 mg/L | 1.40 NTU | -50.5 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:33 AM | 40:00 | 7.43 pH | 18.43 °C | 183.50 µS/cm | 7.51 mg/L | 2.10 NTU | -48.9 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:38 AM | 45:00 | 7.44 pH | 18.12 °C | 192.67 µS/cm | 2.20 mg/L | 2.80 NTU | -53.6 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:43 AM | 50:00 | 7.43 pH | 17.94 °C | 184.36 µS/cm | 3.12 mg/L | 3.60 NTU | -41.4 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:48 AM | 55:00 | 7.42 pH | 17.90 °C | 186.05 µS/cm | 4.05 mg/L | 2.00 NTU | -40.8 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 11:53 AM | 01:00:00 | 7.41 pH | 17.88 °C | 188.05 µS/cm | 4.22 mg/L | 3.00 NTU | -41.7 mV | 46.10 ft | 50.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|--------------|
| 2/11/2020 11:58 AM | 01:05:00 | 7.40 pH | 17.79 °C | 187.89 µS/cm | 5.88 mg/L | 1.90 NTU | -36.9 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 12:03 PM | 01:10:00 | 7.40 pH | 17.90 °C | 192.07 µS/cm | 5.65 mg/L | 1.30 NTU | -32.1 mV | 46.10 ft | 50.00 ml/min |
| 2/11/2020 12:07 PM | 01:13:22 | 7.38 pH | 18.03 °C | 187.76 µS/cm | 5.80 mg/L | 1.30 NTU | -49.7 mV | 46.10 ft | 50.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 2/12/2020 10:04:54 AM

Project: Plant Yates - AP2

Operator Name: Anna Schnittker

| | | |
|---|--|--|
| Location Name: YGWA-3D Well Diameter: 2 in Casing Type: PVC Screen Length: 50 ft Top of Screen: 87.1 ft Total Depth: 137.1 ft Initial Depth to Water: 30.25 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 115 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2 in | Instrument Used: Aqua TROLL 400 Serial Number: 714302 |
|---|--|--|

Test Notes:

Sample time: 1040. Cloudy 50s

Weather Conditions:

Cloudy 50s

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 100 | +/- 100 | +/- 0.3 | |
| 2/12/2020 10:04 AM | 00:00 | 6.78 pH | 15.25 °C | 198.88 µS/cm | 2.67 mg/L | | -9.4 mV | 30.40 ft | 150.00 ml/min |
| 2/12/2020 10:06 AM | 01:30 | 6.93 pH | 15.57 °C | 192.81 µS/cm | 1.22 mg/L | 2.10 NTU | -53.4 mV | 30.40 ft | 150.00 ml/min |
| 2/12/2020 10:11 AM | 06:30 | 7.44 pH | 15.82 °C | 193.41 µS/cm | 0.30 mg/L | 2.40 NTU | -70.0 mV | 30.40 ft | 150.00 ml/min |
| 2/12/2020 10:16 AM | 11:30 | 7.66 pH | 15.84 °C | 193.22 µS/cm | 0.21 mg/L | 1.90 NTU | -114.2 mV | 30.40 ft | 150.00 ml/min |
| 2/12/2020 10:21 AM | 16:30 | 7.73 pH | 15.90 °C | 193.36 µS/cm | 0.19 mg/L | 1.20 NTU | -81.9 mV | 30.40 ft | 150.00 ml/min |
| 2/12/2020 10:26 AM | 21:30 | 7.77 pH | 15.93 °C | 192.15 µS/cm | 0.18 mg/L | 0.80 NTU | -83.7 mV | 30.40 ft | 150.00 ml/min |
| 2/12/2020 10:31 AM | 26:30 | 7.80 pH | 16.10 °C | 192.74 µS/cm | 0.16 mg/L | 0.60 NTU | -88.7 mV | 30.40 ft | 150.00 ml/min |
| 2/12/2020 10:36 AM | 31:30 | 7.83 pH | 16.15 °C | 192.63 µS/cm | 0.17 mg/L | 0.50 NTU | -126.9 mV | 30.40 ft | 150.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 2/11/2020 1:24:14 PM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

| | | |
|--|---|--|
| Location Name: YGWA-3I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50 ft Total Depth: 60 ft Initial Depth to Water: 52.22 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 14 liter Flow Cell Volume: 90 ml Final Flow Rate: 90 ml/min Final Draw Down: 4 in | Instrument Used: Aqua TROLL 400 Serial Number: 714302 |
|--|---|--|

Test Notes:

Sample time: 16:05. Cloudy 60s

Weather Conditions:

Rainy 60s

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|--------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 100 | +/- 100 | +/- 0.3 | |
| 2/11/2020 1:24 PM | 00:00 | 7.67 pH | 17.63 °C | 203.83 µS/cm | 9.57 mg/L | | 36.8 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 1:29 PM | 05:00 | 7.60 pH | 17.46 °C | 224.31 µS/cm | 8.57 mg/L | 8.80 NTU | 20.7 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 1:34 PM | 10:00 | 7.56 pH | 17.37 °C | 237.40 µS/cm | 7.00 mg/L | 11.60 NTU | -32.8 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 1:39 PM | 15:00 | 7.58 pH | 17.26 °C | 234.57 µS/cm | 5.48 mg/L | 6.20 NTU | -58.6 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 1:44 PM | 20:00 | 7.61 pH | 17.22 °C | 226.05 µS/cm | 1.27 mg/L | 6.00 NTU | -38.9 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 1:49 PM | 25:00 | 7.64 pH | 17.36 °C | 217.08 µS/cm | 1.65 mg/L | 4.30 NTU | -46.4 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 1:54 PM | 30:00 | 7.67 pH | 17.32 °C | 209.64 µS/cm | 1.34 mg/L | 4.10 NTU | -51.0 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 1:59 PM | 35:00 | 7.68 pH | 17.33 °C | 203.97 µS/cm | 1.26 mg/L | 4.20 NTU | -55.4 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:04 PM | 40:00 | 7.69 pH | 17.35 °C | 200.54 µS/cm | 3.93 mg/L | 3.80 NTU | -57.7 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:09 PM | 45:00 | 7.70 pH | 17.27 °C | 197.03 µS/cm | 1.37 mg/L | 3.70 NTU | -60.6 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:14 PM | 50:00 | 7.70 pH | 17.27 °C | 194.23 µS/cm | 1.54 mg/L | 1.00 NTU | -62.3 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:19 PM | 55:00 | 7.70 pH | 17.27 °C | 191.33 µS/cm | 1.57 mg/L | 1.60 NTU | -63.8 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:24 PM | 01:00:00 | 7.70 pH | 17.18 °C | 189.29 µS/cm | 3.56 mg/L | 1.40 NTU | -65.6 mV | 52.60 ft | 90.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|--------------|-----------|----------|-----------|----------|--------------|
| 2/11/2020 2:29 PM | 01:05:00 | 7.70 pH | 17.32 °C | 187.66 µS/cm | 3.81 mg/L | 1.20 NTU | -67.6 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:34 PM | 01:10:00 | 7.70 pH | 17.44 °C | 186.51 µS/cm | 2.42 mg/L | 0.80 NTU | -69.2 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:39 PM | 01:15:00 | 7.71 pH | 17.30 °C | 188.28 µS/cm | 1.05 mg/L | 0.90 NTU | -67.8 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:44 PM | 01:20:00 | 7.70 pH | 17.22 °C | 187.57 µS/cm | 1.31 mg/L | 0.70 NTU | -61.4 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:49 PM | 01:25:00 | 7.70 pH | 16.82 °C | 188.09 µS/cm | 0.66 mg/L | 0.90 NTU | -69.5 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:54 PM | 01:30:00 | 7.65 pH | 16.79 °C | 207.83 µS/cm | 1.00 mg/L | 0.80 NTU | -84.3 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 2:59 PM | 01:35:00 | 7.63 pH | 16.83 °C | 210.86 µS/cm | 1.31 mg/L | 1.00 NTU | -80.3 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:04 PM | 01:40:00 | 7.63 pH | 17.36 °C | 208.55 µS/cm | 1.31 mg/L | 1.40 NTU | -81.1 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:09 PM | 01:45:00 | 7.65 pH | 17.13 °C | 197.76 µS/cm | 1.10 mg/L | 1.20 NTU | -87.6 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:14 PM | 01:50:00 | 7.68 pH | 17.09 °C | 184.95 µS/cm | 0.82 mg/L | 1.10 NTU | -99.0 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:19 PM | 01:55:00 | 7.69 pH | 17.10 °C | 180.99 µS/cm | 0.67 mg/L | 1.00 NTU | -104.2 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:24 PM | 02:00:00 | 7.69 pH | 17.21 °C | 179.26 µS/cm | 0.61 mg/L | 0.80 NTU | -74.7 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:29 PM | 02:05:00 | 7.69 pH | 17.18 °C | 178.71 µS/cm | 0.57 mg/L | 0.60 NTU | -107.1 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:34 PM | 02:10:00 | 7.69 pH | 17.20 °C | 179.48 µS/cm | 0.56 mg/L | 0.90 NTU | -107.3 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:39 PM | 02:15:00 | 7.69 pH | 17.09 °C | 179.58 µS/cm | 0.55 mg/L | 1.20 NTU | -75.1 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:44 PM | 02:20:00 | 7.69 pH | 17.09 °C | 179.15 µS/cm | 0.54 mg/L | 0.90 NTU | -75.3 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:49 PM | 02:25:00 | 7.68 pH | 17.09 °C | 178.47 µS/cm | 0.52 mg/L | 0.60 NTU | -106.6 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:54 PM | 02:30:00 | 7.69 pH | 17.09 °C | 178.04 µS/cm | 0.49 mg/L | 0.60 NTU | -107.3 mV | 52.60 ft | 90.00 ml/min |
| 2/11/2020 3:59 PM | 02:35:00 | 7.69 pH | 17.09 °C | 177.70 µS/cm | 0.48 mg/L | 0.50 NTU | -107.4 mV | 52.60 ft | 90.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 2/12/2020 12:56:02 PM

Project: Plant Yates - Ash pond 2

Operator Name: Anna Schnittker

| | | |
|--|---|--|
| Location Name: YGWA-14S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.8 ft Total Depth: 35.82 ft Initial Depth to Water: 15.61 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 30.8 ft Estimated Total Volume Pumped: 6.6 L Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 6 in | Instrument Used: Aqua TROLL 400 Serial Number: 714302 |
|--|---|--|

Test Notes:

Sample time: 1330. Cloudy 60s. DUP 1 here.

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 100 | +/- 100 | +/- 0.3 | |
| 2/12/2020 12:56 PM | 00:00 | 5.59 pH | 19.45 °C | 51.52 µS/cm | 6.57 mg/L | | 145.9 mV | 16.10 ft | 220.00 ml/min |
| 2/12/2020 1:01 PM | 05:00 | 5.52 pH | 18.43 °C | 53.76 µS/cm | 6.30 mg/L | 0.50 NTU | 223.3 mV | 16.10 ft | 220.00 ml/min |
| 2/12/2020 1:06 PM | 10:00 | 5.50 pH | 18.43 °C | 53.49 µS/cm | 6.20 mg/L | 0.50 NTU | 148.6 mV | 16.10 ft | 220.00 ml/min |
| 2/12/2020 1:11 PM | 15:00 | 5.49 pH | 18.43 °C | 53.85 µS/cm | 5.97 mg/L | 0.50 NTU | 144.9 mV | 16.10 ft | 220.00 ml/min |
| 2/12/2020 1:16 PM | 20:00 | 5.48 pH | 18.38 °C | 54.15 µS/cm | 5.87 mg/L | 0.50 NTU | 141.2 mV | 16.10 ft | 220.00 ml/min |
| 2/12/2020 1:21 PM | 25:00 | 5.47 pH | 18.34 °C | 54.50 µS/cm | 5.73 mg/L | 0.50 NTU | 135.5 mV | 16.10 ft | 220.00 ml/min |
| 2/12/2020 1:26 PM | 30:00 | 5.48 pH | 18.25 °C | 54.75 µS/cm | 5.67 mg/L | 0.30 NTU | 208.8 mV | 16.10 ft | 220.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 2/12/2020 2:21:10 PM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

| | | |
|--|--|--|
| Location Name: YGWA-30I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.6 ft Total Depth: 59.65 ft Initial Depth to Water: 39.41 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 54.6 ft Estimated Total Volume Pumped: 4.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 12 in | Instrument Used: Aqua TROLL 400 Serial Number: 714302 |
|--|--|--|

Test Notes:

Sample time: 1455

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 100 | +/- 100 | +/- 0.3 | |
| 2/12/2020 2:21 PM | 00:00 | 6.36 pH | 22.12 °C | 27.41 µS/cm | 8.68 mg/L | | 113.7 mV | 40.40 ft | 160.00 ml/min |
| 2/12/2020 2:26 PM | 05:00 | 6.07 pH | 18.29 °C | 32.38 µS/cm | 7.65 mg/L | 0.70 NTU | 107.1 mV | 40.40 ft | 160.00 ml/min |
| 2/12/2020 2:31 PM | 10:00 | 5.85 pH | 18.30 °C | 35.15 µS/cm | 7.46 mg/L | 0.60 NTU | 115.0 mV | 40.40 ft | 160.00 ml/min |
| 2/12/2020 2:36 PM | 15:00 | 5.83 pH | 18.26 °C | 35.21 µS/cm | 7.33 mg/L | 0.70 NTU | 112.7 mV | 40.40 ft | 160.00 ml/min |
| 2/12/2020 2:41 PM | 20:00 | 5.81 pH | 18.25 °C | 35.26 µS/cm | 7.26 mg/L | 0.60 NTU | 111.3 mV | 40.40 ft | 160.00 ml/min |
| 2/12/2020 2:46 PM | 25:00 | 5.81 pH | 18.34 °C | 35.29 µS/cm | 7.16 mg/L | 0.60 NTU | 110.6 mV | 40.40 ft | 160.00 ml/min |
| 2/12/2020 2:51 PM | 30:00 | 5.80 pH | 18.34 °C | 35.33 µS/cm | 7.11 mg/L | 0.60 NTU | 110.0 mV | 40.40 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Product Name: Low-Flow System

Date: 2020-03-18 15:48:05

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 54 ft

Pump placement from TOC 49 ft

Well Information:

Well ID YGWA-1I
Well diameter 2 in
Well Total Depth 54.93 ft
Screen Length 10 ft
Depth to Water 34.05 ft

Pumping Information:

Final Pumping Rate 60 mL/min
Total System Volume 0.9112475 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 0.3 | +/- 25 |
| Last 5 | 15:27:20 | 5700.04 | 18.98 | 6.23 | 60.55 | 2.42 | 35.50 | 3.69 | 71.10 |
| Last 5 | 15:32:20 | 6000.04 | 18.96 | 6.22 | 60.38 | 2.37 | 35.50 | 3.84 | 72.89 |
| Last 5 | 15:37:20 | 6300.04 | 19.21 | 6.21 | 60.45 | 2.40 | 35.50 | 3.98 | 73.62 |
| Last 5 | 15:42:20 | 6600.04 | 19.54 | 6.20 | 60.10 | 2.54 | 35.50 | 4.07 | 74.90 |
| Last 5 | 15:47:20 | 6900.04 | 19.59 | 6.19 | 59.89 | 2.34 | 35.50 | 4.17 | 76.00 |
| Variance 0 | | | 0.25 | -0.01 | 0.07 | | | 0.14 | 0.73 |
| Variance 1 | | | 0.33 | -0.01 | -0.35 | | | 0.09 | 1.28 |
| Variance 2 | | | 0.05 | -0.01 | -0.21 | | | 0.09 | 1.10 |

Notes

Sampled at 15:37. Sunny, 70's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 10:34:42

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 108 ft

Pump placement from TOC 103 ft

Well Information:

Well ID YGWA-1D
Well diameter 2 in
Well Total Depth 128.60 ft
Screen Length 10 ft
Depth to Water 45.54 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 1.432495 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 7.75 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 0.3 | +/- 25 |
| Last 5 | 10:13:47 | 3600.03 | 16.06 | 7.05 | 166.86 | 6.32 | 45.70 | 0.35 | -8.28 |
| Last 5 | 10:18:47 | 3900.04 | 16.06 | 7.05 | 166.49 | 6.10 | 45.70 | 0.36 | -7.42 |
| Last 5 | 10:23:47 | 4200.04 | 16.19 | 7.04 | 166.01 | 5.69 | 45.70 | 0.36 | -7.95 |
| Last 5 | 10:28:47 | 4500.04 | 16.29 | 7.04 | 165.52 | 5.40 | 45.70 | 0.37 | -9.80 |
| Last 5 | 10:33:47 | 4800.04 | 16.47 | 7.03 | 165.44 | 4.93 | 45.70 | 0.39 | -11.39 |
| Variance 0 | | | 0.13 | -0.01 | -0.48 | | | -0.00 | -0.53 |
| Variance 1 | | | 0.10 | -0.01 | -0.49 | | | 0.02 | -1.85 |
| Variance 2 | | | 0.18 | -0.00 | -0.08 | | | 0.01 | -1.59 |

Notes

Sampled at 10:33. Sunny, 60's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 12:28:00

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 65 ft

Pump placement from TOC 60 ft

Well Information:

Well ID YGWA-2I
Well diameter 2 in
Well Total Depth 65.74 ft
Screen Length 10 ft
Depth to Water 42.83 ft

Pumping Information:

Final Pumping Rate 50 mL/min
Total System Volume 1.017428 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 42 in
Total Volume Pumped 3.25 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 0.3 | +/- 25 |
| Last 5 | 12:06:59 | 2100.03 | 19.70 | 7.14 | 233.61 | 2.88 | 45.80 | 0.68 | -5.22 |
| Last 5 | 12:11:59 | 2400.03 | 19.41 | 7.17 | 232.90 | 2.36 | 46.00 | 0.66 | 14.94 |
| Last 5 | 12:16:59 | 2700.04 | 19.91 | 7.19 | 233.39 | 2.26 | 46.10 | 0.64 | 30.83 |
| Last 5 | 12:21:59 | 3000.04 | 20.15 | 7.20 | 232.30 | 2.38 | 46.20 | 0.63 | 53.26 |
| Last 5 | 12:26:59 | 3300.04 | 20.20 | 7.22 | 231.63 | 2.75 | 46.30 | 0.58 | 85.92 |
| Variance 0 | | | 0.50 | 0.02 | 0.50 | | | -0.02 | 15.89 |
| Variance 1 | | | 0.24 | 0.01 | -1.09 | | | -0.01 | 22.43 |
| Variance 2 | | | 0.05 | 0.02 | -0.67 | | | -0.05 | 32.66 |

Notes

Sampled at 12:37. Sunny, 70's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 11:03:24

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 55 ft

Well Information:

Well ID YGWA-3I
Well diameter 2 in
Well Total Depth 60 ft
Screen Length 10 ft
Depth to Water 52.2 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9.6 in
Total Volume Pumped 14.2 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|---------|
| Stabilization | | | +/- 100 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 100 |
| Last 5 | 10:39:29 | 2400.03 | 17.06 | 7.29 | 204.10 | 0.60 | 53.00 | 0.57 | 75.60 |
| Last 5 | 10:44:29 | 2700.03 | 16.96 | 7.30 | 203.67 | 0.60 | 53.00 | 0.52 | 72.98 |
| Last 5 | 10:49:29 | 3000.03 | 16.93 | 7.30 | 200.56 | 0.80 | 53.00 | 0.45 | 70.05 |
| Last 5 | 10:54:29 | 3300.03 | 16.92 | 7.31 | 199.19 | 0.60 | 53.00 | 0.43 | 67.24 |
| Last 5 | 10:59:29 | 3600.03 | 17.04 | 7.31 | 197.33 | -- | -- | 0.40 | 64.81 |
| Variance 0 | | | -0.03 | 0.01 | -3.11 | | | -0.08 | -2.93 |
| Variance 1 | | | -0.02 | 0.00 | -1.37 | | | -0.02 | -2.81 |
| Variance 2 | | | 0.13 | 0.00 | -1.85 | | | -0.02 | -2.44 |

Notes

Sampled at 1100 on 3-19-20. Sunny, 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 12:10:44

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 116 ft

Pump placement from TOC 112.1 ft

Well Information:

Well ID YGWA-3D
Well diameter 2 in
Well Total Depth 137.1 ft
Screen Length 50 ft
Depth to Water 28.9 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.9077571 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 6.8 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|---------|
| Stabilization | | | +/- 100 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 100 |
| Last 5 | 11:44:58 | 900.03 | 17.23 | 7.49 | 229.99 | 10.50 | 29.00 | 0.35 | 48.14 |
| Last 5 | 11:49:58 | 1200.03 | 17.22 | 7.57 | 230.39 | 9.40 | 29.00 | 0.19 | 46.17 |
| Last 5 | 11:54:58 | 1500.03 | 17.25 | 7.61 | 230.72 | 5.90 | 29.00 | 0.16 | 44.50 |
| Last 5 | 11:59:58 | 1800.03 | 17.25 | 7.64 | 230.66 | 5.50 | 29.00 | 0.16 | 42.77 |
| Last 5 | 12:04:58 | 2100.03 | 17.54 | 7.65 | 230.73 | 4.70 | 29.00 | 0.17 | 40.55 |
| Variance 0 | | | 0.03 | 0.04 | 0.33 | | | -0.03 | -1.67 |
| Variance 1 | | | -0.01 | 0.02 | -0.06 | | | -0.00 | -1.73 |
| Variance 2 | | | 0.30 | 0.01 | 0.07 | | | 0.01 | -2.22 |

Notes

Sampled at 1210 on 3-19-20. Sunny, 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-18 15:48:29

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 35 ft

Pump placement from TOC 30 ft

Well Information:

Well ID YGWA-14S
Well diameter 2 in
Well Total Depth 35.82 ft
Screen Length 10 ft
Depth to Water 12.69 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.5462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.9 in
Total Volume Pumped 7.7 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|---------|
| Stabilization | | | +/- 100 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 100 |
| Last 5 | 15:25:23 | 300.04 | 18.52 | 5.42 | 62.46 | 1.60 | 13.00 | 7.00 | 138.68 |
| Last 5 | 15:30:23 | 600.03 | 18.52 | 5.40 | 62.25 | 1.00 | 13.00 | 6.90 | 140.57 |
| Last 5 | 15:35:23 | 900.03 | 18.13 | 5.39 | 62.35 | 1.20 | 13.10 | 6.77 | 143.02 |
| Last 5 | 15:40:23 | 1200.03 | 18.93 | 5.38 | 62.18 | 1.00 | 13.10 | 6.71 | 144.79 |
| Last 5 | 15:45:23 | 1500.03 | 19.64 | 5.38 | 62.26 | 1.00 | 13.10 | 6.66 | 147.12 |
| Variance 0 | | | -0.40 | -0.01 | 0.10 | | | -0.13 | 2.44 |
| Variance 1 | | | 0.80 | -0.00 | -0.17 | | | -0.07 | 1.77 |
| Variance 2 | | | 0.71 | -0.00 | 0.08 | | | -0.05 | 2.33 |

Notes

Sampled at 1550 on 3-18-20. Dup-1 here. Sunny, 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 14:21:40

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 59 ft

Pump placement from TOC 55 ft

Well Information:

Well ID YGWA-30I
Well diameter 2 in
Well Total Depth 59.65 ft
Screen Length 10 ft
Depth to Water 38.09 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.9595111 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 0.3 | +/- 25 |
| Last 5 | 14:01:00 | 2102.03 | 21.73 | 6.10 | 39.64 | 1.51 | 38.20 | 6.40 | 86.14 |
| Last 5 | 14:06:00 | 2402.03 | 21.32 | 6.07 | 39.63 | 1.65 | 38.20 | 6.38 | 87.81 |
| Last 5 | 14:11:00 | 2702.03 | 21.43 | 6.03 | 39.84 | 1.31 | 38.20 | 6.32 | 89.26 |
| Last 5 | 14:16:00 | 3002.04 | 20.88 | 6.02 | 39.74 | 1.42 | 38.20 | 6.31 | 91.04 |
| Last 5 | 14:21:00 | 3302.04 | 20.39 | 6.00 | 39.72 | 1.08 | 38.20 | 6.26 | 93.39 |
| Variance 0 | | | 0.10 | -0.03 | 0.21 | | | -0.06 | 1.45 |
| Variance 1 | | | -0.55 | -0.01 | -0.11 | | | -0.01 | 1.78 |
| Variance 2 | | | -0.49 | -0.02 | -0.02 | | | -0.06 | 2.35 |

Notes

Sampled at 14:20. Sunny, 70's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 16:48:17

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 40 ft

Pump placement from TOC 35 ft

Well Information:

Well ID YGWC-26S
Well diameter 2 in
Well Total Depth 40.26 ft
Screen Length 10 ft
Depth to Water 20.22 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.7761093 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 0.3 | +/- 25 |
| Last 5 | 16:27:32 | 4500.04 | 22.99 | 5.47 | 287.42 | 6.62 | 21.10 | 0.62 | 108.53 |
| Last 5 | 16:32:32 | 4800.04 | 22.69 | 5.46 | 286.84 | 5.71 | 21.10 | 0.65 | 106.15 |
| Last 5 | 16:37:32 | 5100.04 | 22.42 | 5.47 | 286.22 | 5.23 | 21.10 | 0.63 | 104.67 |
| Last 5 | 16:42:32 | 5400.04 | 22.62 | 5.46 | 287.43 | 5.17 | 21.10 | 0.66 | 104.63 |
| Last 5 | 16:47:32 | 5700.04 | 22.71 | 5.46 | 286.64 | 4.93 | 21.10 | 0.63 | 104.34 |
| Variance 0 | | | -0.27 | 0.00 | -0.62 | | | -0.02 | -1.48 |
| Variance 1 | | | 0.20 | -0.00 | 1.20 | | | 0.03 | -0.04 |
| Variance 2 | | | 0.09 | -0.00 | -0.79 | | | -0.03 | -0.28 |

Notes

Sampled at 16:47. Sunny 70's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-20 10:47:55

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 69 ft

Pump placement from TOC 64 ft

Well Information:

Well ID YGWC-26I
Well diameter 2 in
Well Total Depth 69.71 ft
Screen Length 10 ft
Depth to Water 22.21 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 1.056039 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 13 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 0.3 | +/- 25 |
| Last 5 | 10:27:11 | 5100.04 | 18.96 | 5.95 | 330.08 | 5.13 | 22.40 | 0.31 | 78.67 |
| Last 5 | 10:32:11 | 5400.04 | 19.05 | 5.95 | 329.94 | 5.02 | 22.40 | 0.31 | 78.73 |
| Last 5 | 10:37:11 | 5700.04 | 19.18 | 5.95 | 329.69 | 5.06 | 22.40 | 0.30 | 78.88 |
| Last 5 | 10:42:11 | 6000.04 | 19.18 | 5.95 | 329.66 | 5.11 | 22.40 | 0.30 | 79.31 |
| Last 5 | 10:47:11 | 6300.04 | 19.23 | 5.94 | 329.48 | 4.81 | 22.40 | 0.30 | 78.95 |
| Variance 0 | | | 0.12 | -0.00 | -0.24 | | | -0.00 | 0.16 |
| Variance 1 | | | 0.00 | -0.00 | -0.04 | | | 0.00 | 0.42 |
| Variance 2 | | | 0.05 | -0.00 | -0.18 | | | -0.01 | -0.36 |

Notes

Sampled at 10:47. Cloudy, 60's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-20 12:02:56

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 40 ft

Pump placement from TOC 35.2 ft

Well Information:

Well ID YGWC-27S
Well diameter 2 in
Well Total Depth 40.26 ft
Screen Length 10 ft
Depth to Water 24.24 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.5685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 17.5 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|---------|
| Stabilization | | | +/- 100 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 100 |
| Last 5 | 11:34:20 | 2700.03 | 19.06 | 6.19 | 408.98 | 8.50 | 24.30 | 0.12 | 81.13 |
| Last 5 | 11:39:20 | 3000.03 | 19.01 | 6.18 | 409.25 | 6.70 | 24.30 | 0.12 | 82.18 |
| Last 5 | 11:44:20 | 3300.03 | 18.97 | 6.18 | 409.35 | 5.70 | 24.30 | 0.12 | 82.91 |
| Last 5 | 11:49:20 | 3600.03 | 18.96 | 6.18 | 409.61 | 5.10 | 24.30 | 0.12 | 83.62 |
| Last 5 | 11:54:20 | 3900.06 | 18.99 | 6.18 | 410.22 | 4.85 | 24.30 | 0.12 | 84.19 |
| Variance 0 | | | -0.04 | -0.00 | 0.09 | | | -0.00 | 0.74 |
| Variance 1 | | | -0.01 | 0.00 | 0.27 | | | 0.00 | 0.71 |
| Variance 2 | | | 0.03 | -0.00 | 0.61 | | | 0.00 | 0.57 |

Notes

Sampled at 1200 on 3-20-20. Sunny, 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-20 12:06:02

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 79 ft

Pump placement from TOC 74 ft

Well Information:

Well ID YGWC-27I
Well diameter 2 in
Well Total Depth 79.84 ft
Screen Length 10 ft
Depth to Water 24.48 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 1.152566 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 0.3 | +/- 25 |
| Last 5 | 11:45:18 | 600.03 | 19.59 | 6.25 | 357.29 | 12.40 | 25.30 | 0.65 | 43.27 |
| Last 5 | 11:50:18 | 900.03 | 19.72 | 6.28 | 355.84 | 7.94 | 25.30 | 0.36 | 40.61 |
| Last 5 | 11:55:18 | 1200.03 | 20.43 | 6.29 | 352.38 | 3.95 | 25.30 | 0.28 | 38.96 |
| Last 5 | 12:00:18 | 1500.03 | 19.64 | 6.30 | 352.46 | 2.49 | 25.30 | 0.28 | 40.84 |
| Last 5 | 12:05:19 | 1801.03 | 19.67 | 6.32 | 350.09 | 2.31 | 25.30 | 0.27 | 42.95 |
| Variance 0 | | | 0.71 | 0.01 | -3.46 | | | -0.09 | -1.66 |
| Variance 1 | | | -0.79 | 0.01 | 0.08 | | | -0.00 | 1.89 |
| Variance 2 | | | 0.03 | 0.02 | -2.37 | | | -0.01 | 2.11 |

Notes

Sampled at 12:05. Cloudy, 70's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 14:57:15

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 39.8 ft

Well Information:

Well ID YGWC-28S
Well diameter 2 in
Well Total Depth 44.85 ft
Screen Length 10 ft
Depth to Water 22.26 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.590854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.2 in
Total Volume Pumped 24.2 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|---------|
| Stabilization | | | +/- 100 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 100 |
| Last 5 | 14:33:34 | 5100.03 | 19.84 | 6.97 | 434.56 | 6.50 | 22.70 | 0.08 | -49.56 |
| Last 5 | 14:38:34 | 5400.03 | 19.81 | 6.97 | 434.78 | 5.20 | 22.70 | 0.08 | -51.06 |
| Last 5 | 14:43:34 | 5700.03 | 19.59 | 6.98 | 434.53 | 5.10 | 22.70 | 0.08 | -52.68 |
| Last 5 | 14:48:34 | 6000.03 | 19.65 | 6.98 | 433.64 | 5.20 | 22.70 | 0.08 | -54.34 |
| Last 5 | 14:53:34 | 6300.03 | 19.77 | 6.98 | 433.17 | 4.50 | 22.70 | 0.08 | -56.10 |
| Variance 0 | | | -0.23 | 0.01 | -0.24 | | | 0.00 | -1.62 |
| Variance 1 | | | 0.07 | 0.00 | -0.90 | | | 0.00 | -1.66 |
| Variance 2 | | | 0.12 | 0.00 | -0.47 | | | -0.00 | -1.76 |

Notes

Sampled at 1455 on 3-19-20. Sunny, 70s. EB-1-3-19-20 here at 1315.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 15:59:43

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 70 ft

Pump placement from TOC 64.8 ft

Well Information:

Well ID YGWC-28I
Well diameter 2 in
Well Total Depth 69.89 ft
Screen Length 10 ft
Depth to Water 22.57 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.7024395 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.6 in
Total Volume Pumped 6.5 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|---------|
| Stabilization | | | +/- 100 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 100 |
| Last 5 | 15:36:32 | 1500.03 | 22.54 | 7.02 | 373.25 | 0.80 | 23.10 | 1.30 | 8.29 |
| Last 5 | 15:41:32 | 1800.03 | 23.16 | 7.01 | 372.90 | 1.30 | 23.20 | 0.98 | 9.31 |
| Last 5 | 15:46:33 | 2100.03 | 22.83 | 7.00 | 375.79 | 0.90 | 23.20 | 0.84 | 10.47 |
| Last 5 | 15:51:32 | 2400.03 | 22.91 | 7.01 | 376.42 | 1.10 | 23.20 | 0.76 | 11.66 |
| Last 5 | 15:56:32 | 2700.03 | 22.66 | 7.01 | 377.55 | 1.10 | 23.20 | 0.79 | 13.11 |
| Variance 0 | | | -0.32 | -0.01 | 2.89 | | | -0.14 | 1.16 |
| Variance 1 | | | 0.08 | 0.02 | 0.63 | | | -0.07 | 1.19 |
| Variance 2 | | | -0.26 | -0.00 | 1.13 | | | 0.03 | 1.45 |

Notes

Sampled at 3-19-20. Sunny, 70s. FB-1-3-19-20 here at 1515.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-20 10:11:49

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 70 ft

Pump placement from TOC 64.9 ft

Well Information:

Well ID YGWC-29I
Well diameter 2 in
Well Total Depth 69.89 ft
Screen Length 10 ft
Depth to Water 24.90 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7024395 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12 in
Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|---------|
| Stabilization | | | +/- 100 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 100 |
| Last 5 | 09:49:48 | 600.03 | 18.26 | 6.16 | 246.36 | 1.40 | 25.80 | 0.98 | 65.74 |
| Last 5 | 09:54:48 | 900.03 | 18.32 | 6.16 | 246.59 | 1.30 | 25.80 | 0.65 | 65.08 |
| Last 5 | 09:59:48 | 1200.03 | 18.41 | 6.17 | 246.19 | 1.30 | 25.90 | 0.50 | 64.05 |
| Last 5 | 10:04:48 | 1500.03 | 18.39 | 6.17 | 246.44 | 1.20 | 25.90 | 0.43 | 63.63 |
| Last 5 | 10:09:48 | 1800.02 | 18.43 | 6.17 | 246.38 | 1.00 | 25.90 | 0.39 | 63.60 |
| Variance 0 | | | 0.09 | 0.01 | -0.40 | | | -0.15 | -1.02 |
| Variance 1 | | | -0.02 | 0.00 | 0.25 | | | -0.07 | -0.42 |
| Variance 2 | | | 0.04 | -0.00 | -0.06 | | | -0.03 | -0.04 |

Notes

Sampled at 1012 on 3-20-20. Cloudy, 70s.

Grab Samples

APPENDIX B

Analytical Lab and Data Validation Reports (February and March 2020)



February 2020

Scan Event



February 28, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 12, 2020 and February 14, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: Monte Jones, ACC
Kristen Jurinko
Matt Malone, Atlantic Coast Consulting
Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Ryan Walker



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|--------------|--------|----------------|----------------|
| 2628972001 | YGWA-1I | Water | 02/10/20 15:21 | 02/12/20 15:15 |
| 2628972002 | YGWA-1D | Water | 02/10/20 14:53 | 02/12/20 15:15 |
| 2628972003 | YGWA-2I | Water | 02/11/20 12:10 | 02/12/20 15:15 |
| 2628972004 | YGWA-3I | Water | 02/11/20 16:05 | 02/12/20 15:15 |
| 2628972005 | YGWA-3D | Water | 02/12/20 10:40 | 02/12/20 15:15 |
| 2628972006 | YGWA-30I | Water | 02/12/20 14:55 | 02/14/20 14:39 |
| 2628972007 | YGWA-14S | Water | 02/12/20 13:30 | 02/14/20 14:39 |
| 2628972008 | YGWC-26S | Water | 02/13/20 10:40 | 02/14/20 14:39 |
| 2628972009 | YGWC-26I | Water | 02/13/20 11:30 | 02/14/20 14:39 |
| 2628972010 | DUP-1 | Water | 02/12/20 00:00 | 02/14/20 14:39 |
| 2628972011 | DUP-2 | Water | 02/13/20 00:00 | 02/14/20 14:39 |
| 2628972012 | EB-1-2-13-20 | Water | 02/13/20 11:00 | 02/14/20 14:39 |
| 2628972013 | YGWC-29I | Water | 02/13/20 13:02 | 02/14/20 14:39 |
| 2628972014 | FB-1-2-13-20 | Water | 02/13/20 13:30 | 02/14/20 14:39 |
| 2628972015 | FB-2-2-13-20 | Water | 02/13/20 13:40 | 02/14/20 14:39 |
| 2628972016 | EB-2-2-13-20 | Water | 02/13/20 13:45 | 02/14/20 14:39 |
| 2628972017 | YGWC-27S | Water | 02/13/20 11:50 | 02/14/20 14:39 |
| 2628972018 | YGWC-27I | Water | 02/13/20 10:25 | 02/14/20 14:39 |
| 2628972019 | YGWC-28S | Water | 02/13/20 13:45 | 02/14/20 14:39 |
| 2628972020 | YGWC-28I | Water | 02/13/20 14:50 | 02/14/20 14:39 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|--------------|------------------------|----------|-------------------|------------|
| 2628972001 | YGWA-1I | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972002 | YGWA-1D | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972003 | YGWA-2I | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972004 | YGWA-3I | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972005 | YGWA-3D | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972006 | YGWA-30I | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972007 | YGWA-14S | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972008 | YGWC-26S | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972009 | YGWC-26I | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972010 | DUP-1 | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972011 | DUP-2 | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972012 | EB-1-2-13-20 | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 2628972013 | YGWC-29I | EPA 6020B | CSW | 12 | PASI-GA |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|--------------|------------------------|----------|-------------------|------------|
| 2628972014 | FB-1-2-13-20 | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| 2628972015 | FB-2-2-13-20 | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| 2628972016 | EB-2-2-13-20 | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| 2628972017 | YGWC-27S | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| 2628972018 | YGWC-27I | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| 2628972019 | YGWC-28S | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| 2628972020 | YGWC-28I | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | EPA 6020B | CSW | 12 | PASI-GA |
| | | EPA 7470A | DRB | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------|-----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 2628972001 | YGWA-1I | | | | | |
| | Field pH | 6.10 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Arsenic | 0.00050J | mg/L | 0.0050 | 02/20/20 19:40 | B |
| EPA 6020B | Barium | 0.0091J | mg/L | 0.010 | 02/20/20 19:40 | |
| EPA 6020B | Cobalt | 0.0016J | mg/L | 0.0050 | 02/20/20 19:40 | |
| EPA 6020B | Lithium | 0.0023J | mg/L | 0.030 | 02/20/20 19:40 | |
| EPA 6020B | Molybdenum | 0.0062J | mg/L | 0.010 | 02/20/20 19:40 | |
| EPA 6020B | Thallium | 0.000055J | mg/L | 0.0010 | 02/20/20 19:40 | |
| 2628972002 | YGWA-1D | | | | | |
| | Field pH | 7.20 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Antimony | 0.00088J | mg/L | 0.0030 | 02/20/20 20:03 | |
| EPA 6020B | Arsenic | 0.0026J | mg/L | 0.0050 | 02/20/20 20:03 | B |
| EPA 6020B | Barium | 0.0066J | mg/L | 0.010 | 02/20/20 20:03 | |
| EPA 6020B | Chromium | 0.00042J | mg/L | 0.010 | 02/20/20 20:03 | |
| EPA 6020B | Lead | 0.000049J | mg/L | 0.0050 | 02/20/20 20:03 | |
| EPA 6020B | Lithium | 0.011J | mg/L | 0.030 | 02/20/20 20:03 | |
| EPA 6020B | Molybdenum | 0.0087J | mg/L | 0.010 | 02/20/20 20:03 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.061J | mg/L | 0.30 | 02/18/20 13:41 | |
| 2628972003 | YGWA-2I | | | | | |
| | Field pH | 7.38 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Antimony | 0.00036J | mg/L | 0.0030 | 02/20/20 20:08 | |
| EPA 6020B | Arsenic | 0.0044J | mg/L | 0.0050 | 02/20/20 20:08 | B |
| EPA 6020B | Barium | 0.0036J | mg/L | 0.010 | 02/20/20 20:08 | |
| EPA 6020B | Lithium | 0.0012J | mg/L | 0.030 | 02/20/20 20:08 | |
| EPA 6020B | Molybdenum | 0.0057J | mg/L | 0.010 | 02/20/20 20:08 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.075J | mg/L | 0.30 | 02/18/20 13:56 | |
| 2628972004 | YGWA-3I | | | | | |
| | Field pH | 7.09 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Arsenic | 0.0041J | mg/L | 0.0050 | 02/20/20 20:14 | B |
| EPA 6020B | Barium | 0.0031J | mg/L | 0.010 | 02/20/20 20:14 | |
| EPA 6020B | Lithium | 0.013J | mg/L | 0.030 | 02/20/20 20:14 | |
| EPA 6020B | Molybdenum | 0.0030J | mg/L | 0.010 | 02/20/20 20:14 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.094J | mg/L | 0.30 | 02/18/20 14:11 | |
| 2628972005 | YGWA-3D | | | | | |
| | Field pH | 7.83 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Arsenic | 0.0038J | mg/L | 0.0050 | 02/20/20 20:20 | B |
| EPA 6020B | Barium | 0.0062J | mg/L | 0.010 | 02/20/20 20:20 | |
| EPA 6020B | Lithium | 0.019J | mg/L | 0.030 | 02/20/20 20:20 | |
| EPA 6020B | Molybdenum | 0.013 | mg/L | 0.010 | 02/20/20 20:20 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.40 | mg/L | 0.30 | 02/18/20 14:26 | |
| 2628972006 | YGWA-30I | | | | | |
| | Field pH | 5.80 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Arsenic | 0.0032J | mg/L | 0.0050 | 02/20/20 22:09 | B |
| EPA 6020B | Barium | 0.0073J | mg/L | 0.010 | 02/20/20 22:09 | |
| EPA 6020B | Cobalt | 0.014 | mg/L | 0.0050 | 02/20/20 22:09 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|-----------|------------|--------------|----------------|------------|
| 2628972006 | YGWA-30I | | | | | |
| EPA 6020B | Lithium | 0.0013J | mg/L | 0.030 | 02/20/20 22:09 | |
| 2628972007 | YGWA-14S | | | | | |
| | Field pH | 5.48 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Barium | 0.0070J | mg/L | 0.010 | 02/24/20 15:23 | |
| EPA 6020B | Beryllium | 0.00019J | mg/L | 0.0030 | 02/24/20 15:23 | |
| EPA 6020B | Thallium | 0.000089J | mg/L | 0.0010 | 02/24/20 15:23 | |
| 2628972008 | YGWC-26S | | | | | |
| | Field pH | 5.29 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Antimony | 0.0016J | mg/L | 0.0030 | 02/24/20 15:46 | |
| EPA 6020B | Barium | 0.025 | mg/L | 0.010 | 02/24/20 15:46 | |
| EPA 6020B | Beryllium | 0.00015J | mg/L | 0.0030 | 02/24/20 15:46 | |
| EPA 6020B | Chromium | 0.0012J | mg/L | 0.010 | 02/24/20 15:46 | |
| EPA 6020B | Cobalt | 0.0019J | mg/L | 0.0050 | 02/24/20 15:46 | |
| EPA 6020B | Thallium | 0.000057J | mg/L | 0.0010 | 02/24/20 15:46 | |
| 2628972009 | YGWC-26I | | | | | |
| | Field pH | 5.93 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Antimony | 0.00052J | mg/L | 0.0030 | 02/24/20 15:52 | |
| EPA 6020B | Barium | 0.060 | mg/L | 0.010 | 02/24/20 15:52 | |
| EPA 6020B | Chromium | 0.00044J | mg/L | 0.010 | 02/24/20 15:52 | |
| EPA 6020B | Lithium | 0.0073J | mg/L | 0.030 | 02/24/20 15:52 | |
| EPA 6020B | Selenium | 0.0019J | mg/L | 0.010 | 02/24/20 15:52 | |
| 2628972010 | DUP-1 | | | | | |
| EPA 6020B | Antimony | 0.00028J | mg/L | 0.0030 | 02/24/20 15:57 | |
| EPA 6020B | Barium | 0.0076J | mg/L | 0.010 | 02/24/20 15:57 | |
| EPA 6020B | Beryllium | 0.00023J | mg/L | 0.0030 | 02/24/20 15:57 | |
| EPA 6020B | Chromium | 0.00065J | mg/L | 0.010 | 02/24/20 15:57 | |
| 2628972011 | DUP-2 | | | | | |
| EPA 6020B | Barium | 0.017 | mg/L | 0.010 | 02/24/20 16:03 | |
| EPA 6020B | Beryllium | 0.00014J | mg/L | 0.0030 | 02/24/20 16:03 | |
| 2628972013 | YGWC-29I | | | | | |
| | Field pH | 6.32 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Barium | 0.053 | mg/L | 0.010 | 02/24/20 16:33 | |
| EPA 6020B | Cadmium | 0.00018J | mg/L | 0.0025 | 02/24/20 16:33 | |
| EPA 6020B | Lithium | 0.0057J | mg/L | 0.030 | 02/24/20 16:33 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.053J | mg/L | 0.30 | 02/21/20 15:57 | |
| 2628972017 | YGWC-27S | | | | | |
| | Field pH | 6.31 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Barium | 0.097 | mg/L | 0.010 | 02/24/20 16:55 | |
| EPA 6020B | Cobalt | 0.0026J | mg/L | 0.0050 | 02/24/20 16:55 | |
| EPA 6020B | Lead | 0.000062J | mg/L | 0.0050 | 02/24/20 16:55 | |
| EPA 6020B | Thallium | 0.00010J | mg/L | 0.0010 | 02/24/20 16:55 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.11J | mg/L | 0.30 | 02/21/20 17:21 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|-----------|------------|--------------|----------------|------------|
| 2628972018 | YGWC-27I | | | | | |
| | Field pH | 6.40 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Arsenic | 0.00055J | mg/L | 0.0050 | 02/24/20 17:01 | |
| EPA 6020B | Barium | 0.063 | mg/L | 0.010 | 02/24/20 17:01 | |
| EPA 6020B | Beryllium | 0.00021J | mg/L | 0.0030 | 02/24/20 17:01 | |
| EPA 6020B | Cobalt | 0.012 | mg/L | 0.0050 | 02/24/20 17:01 | |
| EPA 6020B | Lithium | 0.0079J | mg/L | 0.030 | 02/24/20 17:01 | |
| EPA 6020B | Molybdenum | 0.0014J | mg/L | 0.010 | 02/24/20 17:01 | |
| 2628972019 | YGWC-28S | | | | | |
| | Field pH | 6.53 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Arsenic | 0.00065J | mg/L | 0.0050 | 02/24/20 17:07 | |
| EPA 6020B | Barium | 0.21 | mg/L | 0.010 | 02/24/20 17:07 | |
| EPA 6020B | Cobalt | 0.00092J | mg/L | 0.0050 | 02/24/20 17:07 | |
| EPA 6020B | Lead | 0.000054J | mg/L | 0.0050 | 02/24/20 17:07 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.18J | mg/L | 0.30 | 02/21/20 18:31 | |
| 2628972020 | YGWC-28I | | | | | |
| | Field pH | 6.49 | Std. Units | | 02/17/20 08:41 | |
| EPA 6020B | Barium | 0.089 | mg/L | 0.010 | 02/24/20 17:13 | |
| EPA 6020B | Cadmium | 0.00013J | mg/L | 0.0025 | 02/24/20 17:13 | |
| EPA 6020B | Chromium | 0.00047J | mg/L | 0.010 | 02/24/20 17:13 | |
| EPA 6020B | Lithium | 0.0069J | mg/L | 0.030 | 02/24/20 17:13 | |
| EPA 6020B | Molybdenum | 0.0013J | mg/L | 0.010 | 02/24/20 17:13 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.14J | mg/L | 0.30 | 02/21/20 18:45 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: YGWA-1I | | Lab ID: 2628972001 | | Collected: 02/10/20 15:21 | | Received: 02/12/20 15:15 | | Matrix: Water | |
|--------------------------------|--|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | Analytical Method: | | | | | | | | |
| Field pH | 6.10 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7440-36-0 | |
| Arsenic | 0.00050J | mg/L | 0.0050 | 0.00035 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7440-38-2 | B |
| Barium | 0.0091J | mg/L | 0.010 | 0.00049 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7440-47-3 | |
| Cobalt | 0.0016J | mg/L | 0.0050 | 0.00030 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7439-92-1 | |
| Lithium | 0.0023J | mg/L | 0.030 | 0.00078 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7439-93-2 | |
| Molybdenum | 0.0062J | mg/L | 0.010 | 0.00095 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7782-49-2 | |
| Thallium | 0.000055J | mg/L | 0.0010 | 0.000052 | 1 | 02/19/20 13:38 | 02/20/20 19:40 | 7440-28-0 | |
| 7470 Mercury | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/18/20 16:17 | 02/19/20 16:55 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/18/20 12:57 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

| Sample: YGWA-1D | | Lab ID: 2628972002 | | Collected: 02/10/20 14:53 | | Received: 02/12/20 15:15 | | Matrix: Water | |
|--------------------------------|------------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | Analytical Method: | | | | | | | |
| Field pH | 7.20 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.00088J | mg/L | 0.0030 | 0.00027 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7440-36-0 | |
| Arsenic | 0.0026J | mg/L | 0.0050 | 0.00035 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7440-38-2 | B |
| Barium | 0.0066J | mg/L | 0.010 | 0.00049 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7440-43-9 | |
| Chromium | 0.00042J | mg/L | 0.010 | 0.00039 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7440-48-4 | |
| Lead | 0.000049J | mg/L | 0.0050 | 0.000046 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7439-92-1 | |
| Lithium | 0.011J | mg/L | 0.030 | 0.00078 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7439-93-2 | |
| Molybdenum | 0.0087J | mg/L | 0.010 | 0.00095 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/19/20 13:38 | 02/20/20 20:03 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/18/20 16:17 | 02/19/20 17:09 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | |
| Fluoride | 0.061J | mg/L | 0.30 | 0.050 | 1 | | 02/18/20 13:41 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: YGWA-2I | | Lab ID: 2628972003 | | Collected: 02/11/20 12:10 | | Received: 02/12/20 15:15 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | Analytical Method: | | | | | | | |
| Field pH | 7.38 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.00036J | mg/L | 0.0030 | 0.00027 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7440-36-0 | |
| Arsenic | 0.0044J | mg/L | 0.0050 | 0.00035 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7440-38-2 | B |
| Barium | 0.0036J | mg/L | 0.010 | 0.00049 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7439-92-1 | |
| Lithium | 0.0012J | mg/L | 0.030 | 0.00078 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7439-93-2 | |
| Molybdenum | 0.0057J | mg/L | 0.010 | 0.00095 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/19/20 13:38 | 02/20/20 20:08 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/18/20 16:17 | 02/19/20 17:11 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | |
| Fluoride | 0.075J | mg/L | 0.30 | 0.050 | 1 | | 02/18/20 13:56 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

| Sample: YGWA-3I | | Lab ID: 2628972004 | | Collected: 02/11/20 16:05 | | Received: 02/12/20 15:15 | | Matrix: Water | |
|--------------------------------|--|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | Analytical Method: | | | | | | | | |
| Field pH | 7.09 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7440-36-0 | |
| Arsenic | 0.0041J | mg/L | 0.0050 | 0.00035 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7440-38-2 | B |
| Barium | 0.0031J | mg/L | 0.010 | 0.00049 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7439-92-1 | |
| Lithium | 0.013J | mg/L | 0.030 | 0.00078 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7439-93-2 | |
| Molybdenum | 0.0030J | mg/L | 0.010 | 0.00095 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/19/20 13:38 | 02/20/20 20:14 | 7440-28-0 | |
| 7470 Mercury | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/18/20 16:17 | 02/19/20 17:14 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Fluoride | 0.094J | mg/L | 0.30 | 0.050 | 1 | | 02/18/20 14:11 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

| Sample: YGWA-3D | | Lab ID: 2628972005 | | Collected: 02/12/20 10:40 | | Received: 02/12/20 15:15 | | Matrix: Water | |
|--------------------------------|--|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | Analytical Method: | | | | | | | | |
| Field pH | 7.83 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7440-36-0 | |
| Arsenic | 0.0038J | mg/L | 0.0050 | 0.00035 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7440-38-2 | B |
| Barium | 0.0062J | mg/L | 0.010 | 0.00049 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7439-92-1 | |
| Lithium | 0.019J | mg/L | 0.030 | 0.00078 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7439-93-2 | |
| Molybdenum | 0.013 | mg/L | 0.010 | 0.00095 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/19/20 13:38 | 02/20/20 20:20 | 7440-28-0 | |
| 7470 Mercury | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/18/20 16:17 | 02/19/20 17:16 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Fluoride | 0.40 | mg/L | 0.30 | 0.050 | 1 | | 02/18/20 14:26 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: YGWA-30I | | Lab ID: 2628972006 | | Collected: 02/12/20 14:55 | | Received: 02/14/20 14:39 | | Matrix: Water | |
|--|---------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: | | | | | | | | | |
| Field pH | 5.80 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7440-36-0 | |
| Arsenic | 0.0032J | mg/L | 0.0050 | 0.00035 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7440-38-2 | B |
| Barium | 0.0073J | mg/L | 0.010 | 0.00049 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7440-47-3 | |
| Cobalt | 0.014 | mg/L | 0.0050 | 0.00030 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7439-92-1 | |
| Lithium | 0.0013J | mg/L | 0.030 | 0.00078 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/19/20 13:38 | 02/20/20 22:09 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 09:49 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 13:50 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

| Sample: YGWA-14S | | Lab ID: 2628972007 | | Collected: 02/12/20 13:30 | | Received: 02/14/20 14:39 | | Matrix: Water | |
|--|-----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: | | | | | | | | | |
| Field pH | 5.48 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7440-38-2 | |
| Barium | 0.0070J | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7440-39-3 | |
| Beryllium | 0.00019J | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7782-49-2 | |
| Thallium | 0.000089J | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 15:23 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:03 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 14:04 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: YGWC-26S | | Lab ID: 2628972008 | | Collected: 02/13/20 10:40 | | Received: 02/14/20 14:39 | | Matrix: Water | |
|--------------------------------|--|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | Analytical Method: | | | | | | | | |
| Field pH | 5.29 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | 0.0016J | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7440-38-2 | |
| Barium | 0.025 | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7440-39-3 | |
| Beryllium | 0.00015J | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7440-43-9 | |
| Chromium | 0.0012J | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7440-47-3 | |
| Cobalt | 0.0019J | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7782-49-2 | |
| Thallium | 0.000057J | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 15:46 | 7440-28-0 | |
| 7470 Mercury | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:06 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 14:18 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

| Sample: YGWC-26I | | Lab ID: 2628972009 | | Collected: 02/13/20 11:30 | | Received: 02/14/20 14:39 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | Analytical Method: | | | | | | | |
| Field pH | 5.93 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.00052J | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7440-38-2 | |
| Barium | 0.060 | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7440-43-9 | |
| Chromium | 0.00044J | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7439-92-1 | |
| Lithium | 0.0073J | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7439-98-7 | |
| Selenium | 0.0019J | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 15:52 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:08 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 14:32 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: DUP-1 | | Lab ID: 2628972010 | | Collected: 02/12/20 00:00 | | Received: 02/14/20 14:39 | | Matrix: Water | | |
|--------------------------------|-----------------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | 0.00028J | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7440-38-2 | | |
| Barium | 0.0076J | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7440-39-3 | | |
| Beryllium | 0.00023J | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7440-43-9 | | |
| Chromium | 0.00065J | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 15:57 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:10 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 14:46 | 16984-48-8 | | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: DUP-2 | | Lab ID: 2628972011 | | Collected: 02/13/20 00:00 | | Received: 02/14/20 14:39 | | Matrix: Water | | |
|--------------------------------|-----------------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7440-38-2 | | |
| Barium | 0.017 | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7440-39-3 | | |
| Beryllium | 0.00014J | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 16:03 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:13 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 15:28 | 16984-48-8 | | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: EB-1-2-13-20 | | Lab ID: 2628972012 | | Collected: 02/13/20 11:00 | | Received: 02/14/20 14:39 | | Matrix: Water | | |
|--------------------------------|---------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7440-38-2 | | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 16:27 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:15 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 15:43 | 16984-48-8 | | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: YGWC-29I | | Lab ID: 2628972013 | | Collected: 02/13/20 13:02 | | Received: 02/14/20 14:39 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | Analytical Method: | | | | | | | |
| Field pH | 6.32 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7440-38-2 | |
| Barium | 0.053 | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7440-41-7 | |
| Cadmium | 0.00018J | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7439-92-1 | |
| Lithium | 0.0057J | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 16:33 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:18 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | |
| Fluoride | 0.053J | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 15:57 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: FB-1-2-13-20 | | Lab ID: 2628972014 | | Collected: 02/13/20 13:30 | | Received: 02/14/20 14:39 | | Matrix: Water | | |
|--------------------------------|---------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7440-38-2 | | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 16:38 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:20 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 16:11 | 16984-48-8 | | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: FB-2-2-13-20 | | Lab ID: 2628972015 | | Collected: 02/13/20 13:40 | Received: 02/14/20 14:39 | Matrix: Water | | | | |
|--------------------------------|---------|--|---------|---------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7440-38-2 | | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 16:44 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:22 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 16:25 | 16984-48-8 | | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: EB-2-2-13-20 | | Lab ID: 2628972016 | | Collected: 02/13/20 13:45 | | Received: 02/14/20 14:39 | | Matrix: Water | | |
|--------------------------------|---------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7440-38-2 | | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 16:50 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:25 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 17:07 | 16984-48-8 | | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: YGWC-27S | | Lab ID: 2628972017 | | Collected: 02/13/20 11:50 | | Received: 02/14/20 14:39 | | Matrix: Water | |
|--------------------------------|------------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | Analytical Method: | | | | | | | |
| Field pH | 6.31 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7440-38-2 | |
| Barium | 0.097 | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7440-47-3 | |
| Cobalt | 0.0026J | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7440-48-4 | |
| Lead | 0.000062J | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7782-49-2 | |
| Thallium | 0.00010J | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 16:55 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:32 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | |
| Fluoride | 0.11J | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 17:21 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: YGWC-271 | | Lab ID: 2628972018 | | Collected: 02/13/20 10:25 | | Received: 02/14/20 14:39 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | Analytical Method: | | | | | | | |
| Field pH | 6.40 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7440-36-0 | |
| Arsenic | 0.00055J | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7440-38-2 | |
| Barium | 0.063 | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7440-39-3 | |
| Beryllium | 0.00021J | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7440-47-3 | |
| Cobalt | 0.012 | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7439-92-1 | |
| Lithium | 0.0079J | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7439-93-2 | |
| Molybdenum | 0.0014J | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 17:01 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:34 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 17:35 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: YGWC-28S | | Lab ID: 2628972019 | | Collected: 02/13/20 13:45 | | Received: 02/14/20 14:39 | | Matrix: Water | |
|--|-----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: | | | | | | | | | |
| Field pH | 6.53 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7440-36-0 | |
| Arsenic | 0.00065J | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7440-38-2 | |
| Barium | 0.21 | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7440-47-3 | |
| Cobalt | 0.00092J | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7440-48-4 | |
| Lead | 0.000054J | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 17:07 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:36 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Fluoride | 0.18J | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 18:31 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Sample: YGWC-28I | | Lab ID: 2628972020 | | Collected: 02/13/20 14:50 | | Received: 02/14/20 14:39 | | Matrix: Water | |
|--|----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: | | | | | | | | | |
| Field pH | 6.49 | Std. Units | | | 1 | | 02/17/20 08:41 | | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7440-38-2 | |
| Barium | 0.089 | mg/L | 0.010 | 0.00049 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7440-41-7 | |
| Cadmium | 0.00013J | mg/L | 0.0025 | 0.00011 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7440-43-9 | |
| Chromium | 0.00047J | mg/L | 0.010 | 0.00039 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7439-92-1 | |
| Lithium | 0.0069J | mg/L | 0.030 | 0.00078 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7439-93-2 | |
| Molybdenum | 0.0013J | mg/L | 0.010 | 0.00095 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 02/22/20 17:25 | 02/24/20 17:13 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 02/24/20 11:27 | 02/25/20 10:39 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Fluoride | 0.14J | mg/L | 0.30 | 0.050 | 1 | | 02/21/20 18:45 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

QC Batch: 43498

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005

METHOD BLANK: 199117

Matrix: Water

Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | 0.00016J | 0.00050 | 0.00014 | 02/19/20 16:43 | |

LABORATORY CONTROL SAMPLE: 199118

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0029 | 115 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 199119 199120

| Parameter | Units | 199119 | | 199120 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 2628972001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0024 | 0.0025 | 95 | 98 | 75-125 | 3 | 20 |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

QC Batch: 43742 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2628972006, 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

METHOD BLANK: 200407 Matrix: Water
 Associated Lab Samples: 2628972006, 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00050 | 0.00014 | 02/25/20 09:37 | |

LABORATORY CONTROL SAMPLE: 200408

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0024 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 200409 200410

| Parameter | Units | 2628972006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0024 | 0.0020 | 97 | 82 | 75-125 | 17 | 20 | |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

QC Batch: 43544 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005, 2628972006

METHOD BLANK: 199284 Matrix: Water
Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005, 2628972006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 02/20/20 19:28 | |
| Arsenic | mg/L | 0.00079J | 0.0050 | 0.00035 | 02/20/20 19:28 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 02/20/20 19:28 | |
| Beryllium | mg/L | ND | 0.0030 | 0.000074 | 02/20/20 19:28 | |
| Cadmium | mg/L | ND | 0.0025 | 0.00011 | 02/20/20 19:28 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 02/20/20 19:28 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 02/20/20 19:28 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 02/20/20 19:28 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 02/20/20 19:28 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 02/20/20 19:28 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 02/20/20 19:28 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 02/20/20 19:28 | |

LABORATORY CONTROL SAMPLE: 199285

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.11 | 108 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 199286 199287

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|------------|-----------|------------|----------|-----------|--------------|---------|------|
| | | 2628972001 Result | Spike Conc. | Spike Conc. | MSD Result | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 103 | 75-125 | 0 | 20 | |
| Arsenic | mg/L | 0.00050J | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 102 | 75-125 | 1 | 20 | |
| Barium | mg/L | 0.0091J | 0.1 | 0.1 | 0.11 | 0.11 | 102 | 103 | 75-125 | 2 | 20 | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.090 | 95 | 90 | 75-125 | 5 | 20 | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 103 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Parameter | Units | 199286 | | 199287 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|------------|-------|----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| | | 2628972001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 105 | 106 | 75-125 | 0 | 20 | |
| Cobalt | mg/L | 0.0016J | 0.1 | 0.1 | 0.11 | 0.10 | 104 | 103 | 75-125 | 1 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 101 | 75-125 | 1 | 20 | |
| Lithium | mg/L | 0.0023J | 0.1 | 0.1 | 0.096 | 0.095 | 94 | 92 | 75-125 | 1 | 20 | |
| Molybdenum | mg/L | 0.0062J | 0.1 | 0.1 | 0.11 | 0.11 | 107 | 108 | 75-125 | 1 | 20 | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 100 | 75-125 | 2 | 20 | |
| Thallium | mg/L | 0.000055J | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 102 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

QC Batch: 43713 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

METHOD BLANK: 200292 Matrix: Water
Associated Lab Samples: 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 02/24/20 15:12 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 02/24/20 15:12 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 02/24/20 15:12 | |
| Beryllium | mg/L | ND | 0.0030 | 0.000074 | 02/24/20 15:12 | |
| Cadmium | mg/L | ND | 0.0025 | 0.00011 | 02/24/20 15:12 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 02/24/20 15:12 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 02/24/20 15:12 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 02/24/20 15:12 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 02/24/20 15:12 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 02/24/20 15:12 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 02/24/20 15:12 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 02/24/20 15:12 | |

LABORATORY CONTROL SAMPLE: 200293

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.095 | 95 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Lead | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 200294 200295

| Parameter | Units | 2628972007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | | | | | | | | | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.097 | 99 | 97 | 75-125 | 2 | 20 | |
| Barium | mg/L | 0.0070J | 0.1 | 0.1 | 0.11 | 0.11 | 103 | 100 | 75-125 | 3 | 20 | |
| Beryllium | mg/L | 0.00019J | 0.1 | 0.1 | 0.11 | 0.11 | 105 | 106 | 75-125 | 1 | 20 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Parameter | Units | 200294 | | 200295 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 2628972007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 101 | 99 | 75-125 | 1 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 101 | 75-125 | 2 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 106 | 103 | 75-125 | 3 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.095 | 96 | 95 | 75-125 | 0 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 106 | 106 | 75-125 | 0 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 100 | 99 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.097 | 100 | 95 | 75-125 | 5 | 20 | | |
| Thallium | mg/L | 0.000089J | 0.1 | 0.1 | 0.097 | 0.095 | 97 | 95 | 75-125 | 2 | 20 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

QC Batch: 525418 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
 Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005

METHOD BLANK: 2808346 Matrix: Water
 Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/18/20 08:29 | |

LABORATORY CONTROL SAMPLE: 2808347

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Fluoride | mg/L | 2.5 | 2.4 | 95 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2808348 2808349

| Parameter | Units | 92464515069 Result | MS | MSD | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | Spike Conc. | | | | | | | | |
| Fluoride | mg/L | 0.058J | 2.5 | 2.5 | 2.5 | 2.4 | 97 | 94 | 90-110 | 3 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2808350 2808351

| Parameter | Units | 2628972001 Result | MS | MSD | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | Spike Conc. | | | | | | | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.3 | 2.3 | 93 | 92 | 90-110 | 0 | 10 | |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

QC Batch: 526047 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
 Associated Lab Samples: 2628972006, 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013,
 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

METHOD BLANK: 2811595 Matrix: Water
 Associated Lab Samples: 2628972006, 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013,
 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/21/20 12:40 | |

LABORATORY CONTROL SAMPLE: 2811596

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Fluoride | mg/L | 2.5 | 2.7 | 109 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2811597 2811598

| Parameter | Units | 2628973020 Result | MS | MSD | MS | MSD | MS | MSD | % Rec | Max | Qual |
|-----------|-------|-------------------|-------------|-------------|--------|--------|-------|-------|--------|-----|-------|
| | | | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | Limits | RPD | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.8 | 2.6 | 112 | 104 | 90-110 | 7 | 10 M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2811599 2811600

| Parameter | Units | 2628972015 Result | MS | MSD | MS | MSD | MS | MSD | % Rec | Max | Qual |
|-----------|-------|-------------------|-------------|-------------|--------|--------|-------|-------|--------|-----|------|
| | | | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | Limits | RPD | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.7 | 2.7 | 108 | 107 | 90-110 | 1 | 10 |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

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.

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.

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.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

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: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|--------------|-----------------|----------|-------------------|------------------|
| 2628972001 | YGWA-1I | | | | |
| 2628972002 | YGWA-1D | | | | |
| 2628972003 | YGWA-2I | | | | |
| 2628972004 | YGWA-3I | | | | |
| 2628972005 | YGWA-3D | | | | |
| 2628972006 | YGWA-30I | | | | |
| 2628972007 | YGWA-14S | | | | |
| 2628972008 | YGWC-26S | | | | |
| 2628972009 | YGWC-26I | | | | |
| 2628972013 | YGWC-29I | | | | |
| 2628972017 | YGWC-27S | | | | |
| 2628972018 | YGWC-27I | | | | |
| 2628972019 | YGWC-28S | | | | |
| 2628972020 | YGWC-28I | | | | |
| 2628972001 | YGWA-1I | EPA 3005A | 43544 | EPA 6020B | 43556 |
| 2628972002 | YGWA-1D | EPA 3005A | 43544 | EPA 6020B | 43556 |
| 2628972003 | YGWA-2I | EPA 3005A | 43544 | EPA 6020B | 43556 |
| 2628972004 | YGWA-3I | EPA 3005A | 43544 | EPA 6020B | 43556 |
| 2628972005 | YGWA-3D | EPA 3005A | 43544 | EPA 6020B | 43556 |
| 2628972006 | YGWA-30I | EPA 3005A | 43544 | EPA 6020B | 43556 |
| 2628972007 | YGWA-14S | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972008 | YGWC-26S | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972009 | YGWC-26I | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972010 | DUP-1 | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972011 | DUP-2 | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972012 | EB-1-2-13-20 | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972013 | YGWC-29I | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972014 | FB-1-2-13-20 | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972015 | FB-2-2-13-20 | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972016 | EB-2-2-13-20 | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972017 | YGWC-27S | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972018 | YGWC-27I | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972019 | YGWC-28S | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972020 | YGWC-28I | EPA 3005A | 43713 | EPA 6020B | 43729 |
| 2628972001 | YGWA-1I | EPA 7470A | 43498 | EPA 7470A | 43503 |
| 2628972002 | YGWA-1D | EPA 7470A | 43498 | EPA 7470A | 43503 |
| 2628972003 | YGWA-2I | EPA 7470A | 43498 | EPA 7470A | 43503 |
| 2628972004 | YGWA-3I | EPA 7470A | 43498 | EPA 7470A | 43503 |
| 2628972005 | YGWA-3D | EPA 7470A | 43498 | EPA 7470A | 43503 |
| 2628972006 | YGWA-30I | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972007 | YGWA-14S | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972008 | YGWC-26S | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972009 | YGWC-26I | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972010 | DUP-1 | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972011 | DUP-2 | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972012 | EB-1-2-13-20 | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972013 | YGWC-29I | EPA 7470A | 43742 | EPA 7470A | 43802 |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|--------------|------------------------|----------|-------------------|------------------|
| 2628972014 | FB-1-2-13-20 | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972015 | FB-2-2-13-20 | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972016 | EB-2-2-13-20 | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972017 | YGWC-27S | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972018 | YGWC-27I | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972019 | YGWC-28S | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972020 | YGWC-28I | EPA 7470A | 43742 | EPA 7470A | 43802 |
| 2628972001 | YGWA-11 | EPA 300.0 Rev 2.1 1993 | 525418 | | |
| 2628972002 | YGWA-1D | EPA 300.0 Rev 2.1 1993 | 525418 | | |
| 2628972003 | YGWA-2I | EPA 300.0 Rev 2.1 1993 | 525418 | | |
| 2628972004 | YGWA-3I | EPA 300.0 Rev 2.1 1993 | 525418 | | |
| 2628972005 | YGWA-3D | EPA 300.0 Rev 2.1 1993 | 525418 | | |
| 2628972006 | YGWA-30I | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972007 | YGWA-14S | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972008 | YGWC-26S | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972009 | YGWC-26I | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972010 | DUP-1 | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972011 | DUP-2 | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972012 | EB-1-2-13-20 | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972013 | YGWC-29I | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972014 | FB-1-2-13-20 | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972015 | FB-2-2-13-20 | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972016 | EB-2-2-13-20 | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972017 | YGWC-27S | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972018 | YGWC-27I | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972019 | YGWC-28S | EPA 300.0 Rev 2.1 1993 | 526047 | | |
| 2628972020 | YGWC-28I | EPA 300.0 Rev 2.1 1993 | 526047 | | |

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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: **GA Power**
 Address: **Atlanta, GA**
 Email To: **SCCS Contacts**
 Phone: _____ Fax: _____
 Requested Date Data/TAT: **10 Day**

Section B Required Project Information:

Report To: **SCS Contacts**
 Copy To: **ACC Contacts**
 Purchase Order No.: _____
 Project Name: **Plant Yates AP-2 - Feb Event**
 Project Number: _____

Section C Invoice Information:

Attention: **Southern Co.**
 Company Name: _____
 Address: _____
 Pace Card # _____
 Pace Project Manager: **Kevin Harting**
 Pace Order #: **2916-1**

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER CCR
 Site Location STATE: **GA**

Pages: _____ of _____

| ITEM # | Section D Requested Client Information | Valid Matrix Codes MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | PH |
|--------|---|---|-----------------------------|-----------------|--------------------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|---------------|-----------------------------------|-------------------------|----|
| | | | | COMPOSITE START | COMPOSITE END/GRAB | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | | | | |
| 1 | Y6WC-275 | W | G | DATE | TIME | DATE | TIME | | | | | | | | | | |
| 2 | Y6WC-271 | W | G | 2-14-20 | 1150 | | | | | | | | | | | | |
| 3 | Y6WC-285 | W | G | | 1025 | | | | | | | | | | | | |
| 4 | Y6WC-281 | W | G | | 1345 | | | | | | | | | | | | |
| 5 | | | | | 1450 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |

ADDITIONAL COMMENTS: _____
 RELINQUISHED BY / AFFILIATION: _____ DATE: _____ TIME: _____
 ACCEPTED BY / AFFILIATION: _____ DATE: _____ TIME: _____

PLEASE NOTE DRY WELLS AND NOTE WHEN THE LAST SAMPLE FOR THE EVENT HAS BEEN TAKEN: _____

SAMPLER NAME AND SIGNATURE: _____
 PRINT NAME OF SAMPLER: _____
 SIGNATURE OF SAMPLER: _____
 DATE SIGNED (MM/DD/YY): 2-14-20



Sample Condition Upon Receipt

Client Name: GA POWER Project #

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: [Redacted]

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used T117233 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 1.6 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: KW 2/16/20

Temp should be above freezing to 6°C Comments:

Table with 16 rows of checklist items (Chain of Custody Present, Filled Out, Relinquished, etc.) and checkboxes for Yes, No, N/A.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

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)



Document Name:
Bottle Identification Form (BIF)
 Document No.:
F-CAR-CS-043-Rev.00

Document issued: March 14, 2019
 Page 1 of 1
 Issuing Authority:
Pace Carolinas Quality Office

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

Project #

Bottom half of box is to list number of bottle

| Matrix | Item# | BP4U-125 mL Plastic Unpreserved (N/A) (C-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (C-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4C-125 mL Plastic NaOH (pH > 12) (C-) | WGFLU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (C-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (C-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-) | 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)-VPH/Gas kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SPST-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3U-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG2U-100 mL Amber Unpreserved vials (N/A) | VG9U-20 mL Scrubbing vials (N/A) | |
|--------|-------|--|---------------------------------------|---------------------------------------|--|---|-----------------------------------|--|---|--|---|---------------------------------|--|-----------------------------------|----------------------------------|---|--------------------------|------------------------------|--------------------------|----------------------------|--|--|---|---|---|---|----------------------------------|--|
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

BPIN

Handwritten notes and signatures in the right margin of the table.

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 Out of hold, incorrect preservative, out of temp, incorrect containers.



Document Name:
Bottle Identification Form (BIF)
Document No.:
F-CAR-CS-043-Rev.00

Document Issued: March 14, 2019
Page 1 of 1
Issuing Authority:
Pace Carolinas Quality Office

Project #

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

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

* Bottom half of box is to list number of bottle

| Matrix | Item# | Item Description |
|--------|------------|-------------------------------------|
| | BP4U-125 | ml Plastic Unpreserved (N/A) (C-) |
| | BP5U-250 | ml Plastic Unpreserved (N/A) |
| | BP2U-500 | ml Plastic Unpreserved (N/A) |
| | BP1U-1 | liter Plastic Unpreserved (N/A) |
| | BP4S-125 | ml Plastic H2SO4 (pH < 2) (C-) |
| | BP3N-250 | ml plastic HNO3 (pH < 2) |
| | BP4Z-125 | ml Plastic ZN Acetate & NaOH (>9) |
| | BP4C-125 | ml Plastic NaOH (pH > 12) (C-) |
| | WGFW | Wide-mouthed Glass Jar Unpreserved |
| | AG1U-1 | liter Amber Unpreserved (N/A) (C-) |
| | AG2H-1 | liter Amber HCl (pH < 2) |
| | AG3U-250 | ml Amber Unpreserved (N/A) (C-) |
| | AG1S-1 | liter Amber H2SO4 (pH < 2) |
| | AG3S-250 | ml Amber H2SO4 (pH < 2) |
| | AG3A(DG3A) | -250 ml Amber NH4Cl (N/A)(C-) |
| | 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) |
| | SPST-125 | ml Sterile Plastic (N/A - lab) |
| | SP2T-250 | ml Sterile Plastic (N/A - lab) |
| | BP9A-250 | ml Plastic (NH4)2SO4 (9.3-9.7) |
| | AG6U-100 | ml Amber Unpreserved vials (N/A) |
| | VS6U-20 | ml. Scintillation vials (N/A) |

pH Adjustment Log for Preserved Samples

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

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

March 15, 2020

Mr. Joju Abraham
Georgia Power
2480 Maner Road
Atlanta, GA 30339

RE: Project: 2628972
Pace Project No.: 30350269

Dear Mr. Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 14, 2020 and February 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2628972
Pace Project No.: 30350269

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: 2628972
Pace Project No.: 30350269

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|--------------|--------|----------------|----------------|
| 2628972001 | YGWA-1I | Water | 02/10/20 15:21 | 02/14/20 10:15 |
| 2628972002 | YGWA-1D | Water | 02/10/20 14:53 | 02/14/20 10:15 |
| 2628972003 | YGWA-2I | Water | 02/11/20 12:10 | 02/14/20 10:15 |
| 2628972004 | YGWA-3I | Water | 02/11/20 16:05 | 02/14/20 10:15 |
| 2628972005 | YGWA-3D | Water | 02/11/20 10:40 | 02/14/20 10:15 |
| 2628972006 | YGWA-30I | Water | 02/12/20 14:55 | 02/18/20 09:10 |
| 2628972007 | YGWA-14S | Water | 02/12/20 13:30 | 02/18/20 09:10 |
| 2628972008 | YGWC-26S | Water | 02/13/20 10:40 | 02/18/20 09:10 |
| 2628972009 | YGWC-26I | Water | 02/13/20 11:30 | 02/18/20 09:10 |
| 2628972010 | DUP-1 | Water | 02/12/20 00:00 | 02/18/20 09:10 |
| 2628972011 | DUP-2 | Water | 02/13/20 00:00 | 02/18/20 09:10 |
| 2628972012 | EB-1-2-13-20 | Water | 02/13/20 11:00 | 02/18/20 09:10 |
| 2628972013 | YGWC-29I | Water | 02/13/20 13:02 | 02/18/20 09:10 |
| 2628972014 | FB-1-2-13-20 | Water | 02/13/20 13:30 | 02/18/20 09:10 |
| 2628972015 | FB-2-2-13-20 | Water | 02/13/20 13:40 | 02/18/20 09:10 |
| 2628972016 | EB-2-2-13-20 | Water | 02/13/20 13:45 | 02/18/20 09:10 |
| 2628972017 | YGWC-27S | Water | 02/13/20 11:50 | 02/18/20 09:10 |
| 2628972018 | YGWC-27I | Water | 02/13/20 10:25 | 02/18/20 09:10 |
| 2628972019 | YGWC-28S | Water | 02/13/20 13:45 | 02/18/20 09:10 |
| 2628972020 | YGWC-28I | Water | 02/13/20 14:50 | 02/18/20 09:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2628972
Pace Project No.: 30350269

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|--------------|--------------------------|----------|-------------------|------------|
| 2628972001 | YGWA-1I | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972002 | YGWA-1D | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972003 | YGWA-2I | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972004 | YGWA-3I | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972005 | YGWA-3D | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972006 | YGWA-30I | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972007 | YGWA-14S | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972008 | YGWC-26S | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972009 | YGWC-26I | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972010 | DUP-1 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972011 | DUP-2 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972012 | EB-1-2-13-20 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2628972013 | YGWC-29I | EPA 9315 | LAL | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2628972
Pace Project No.: 30350269

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|--------------|--------------------------|----------|-------------------|------------|
| 2628972014 | FB-1-2-13-20 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| | | EPA 9315 | LAL | 1 | PASI-PA |
| 2628972015 | FB-2-2-13-20 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| | | EPA 9315 | LAL | 1 | PASI-PA |
| 2628972016 | EB-2-2-13-20 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| | | EPA 9315 | LAL | 1 | PASI-PA |
| 2628972017 | YGWC-27S | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| | | EPA 9315 | LAL | 1 | PASI-PA |
| 2628972018 | YGWC-27I | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| | | EPA 9315 | LAL | 1 | PASI-PA |
| 2628972019 | YGWC-28S | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| | | EPA 9315 | LAL | 1 | PASI-PA |
| 2628972020 | YGWC-28I | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| | | EPA 9315 | LAL | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

| Sample: YGWA-1I | | Lab ID: 2628972001 | Collected: 02/10/20 15:21 | Received: 02/14/20 10:15 | Matrix: Water | |
|-----------------|--------------------------|---|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.460 ± 0.329 (0.552) C:77% T:NA | pCi/L | 03/03/20 08:19 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.786 ± 0.408 (0.726) C:78% T:95% | pCi/L | 03/11/20 16:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.25 ± 0.737 (1.28) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Sample: YGWA-1D | | Lab ID: 2628972002 | Collected: 02/10/20 14:53 | Received: 02/14/20 10:15 | Matrix: Water | |
|-----------------|--------------------------|---|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.714 ± 0.354 (0.471) C:91% T:NA | pCi/L | 03/03/20 08:19 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.693 ± 0.389 (0.713) C:81% T:99% | pCi/L | 03/11/20 16:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.41 ± 0.743 (1.18) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Sample: YGWA-2I | | Lab ID: 2628972003 | Collected: 02/11/20 12:10 | Received: 02/14/20 10:15 | Matrix: Water | |
|-----------------|--------------------------|---|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.476 ± 0.310 (0.488) C:86% T:NA | pCi/L | 03/03/20 08:20 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.341 ± 0.436 (0.930) C:80% T:85% | pCi/L | 03/11/20 16:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.817 ± 0.746 (1.42) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Sample: YGWA-3I | | Lab ID: 2628972004 | Collected: 02/11/20 16:05 | Received: 02/14/20 10:15 | Matrix: Water | |
|-----------------|--------------------------|--|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.851 ± 0.385 (0.434) C:85% T:NA | pCi/L | 03/03/20 08:20 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 1.00 ± 0.464 (0.788) C:76% T:95% | pCi/L | 03/11/20 16:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.85 ± 0.849 (1.22) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Sample: YGWA-3D | | Lab ID: 2628972005 | Collected: 02/11/20 10:40 | Received: 02/14/20 10:15 | Matrix: Water | |
|-----------------|----------|--|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 1.74 ± 0.555 (0.550) C:97% T:NA | pCi/L | 03/03/20 08:20 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 2.13 ± 0.654 (0.830) C:79% T:82% | pCi/L | 03/11/20 16:10 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---------------------------|-------|----------------|-----------|------|
| Sample: YGWA-3D Lab ID: 2628972005 Collected: 02/11/20 10:40 Received: 02/14/20 10:15 Matrix: Water | | | | | | |
| PWS: Site ID: Sample Type: | | | | | | |
| Total Radium | Total Radium Calculation | 3.87 ± 1.21 (1.38) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|---|-------|----------------|------------|------|
| Sample: YGWA-30I Lab ID: 2628972006 Collected: 02/12/20 14:55 Received: 02/18/20 09:10 Matrix: Water | | | | | | |
| PWS: Site ID: Sample Type: | | | | | | |
| Radium-226 | EPA 9315 | 0.105 ± 0.223 (0.520) C:94% T:NA | pCi/L | 03/03/20 08:20 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.196 ± 0.343 (0.750) C:80% T:97% | pCi/L | 03/11/20 16:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.301 ± 0.566 (1.27) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|---|-------|----------------|------------|------|
| Sample: YGWA-14S Lab ID: 2628972007 Collected: 02/12/20 13:30 Received: 02/18/20 09:10 Matrix: Water | | | | | | |
| PWS: Site ID: Sample Type: | | | | | | |
| Radium-226 | EPA 9315 | 0.565 ± 0.298 (0.394) C:95% T:NA | pCi/L | 03/03/20 08:21 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.500 ± 0.421 (0.849) C:79% T:88% | pCi/L | 03/11/20 16:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.07 ± 0.719 (1.24) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|--|-------|----------------|------------|------|
| Sample: YGWC-26S Lab ID: 2628972008 Collected: 02/13/20 10:40 Received: 02/18/20 09:10 Matrix: Water | | | | | | |
| PWS: Site ID: Sample Type: | | | | | | |
| Radium-226 | EPA 9315 | 0.111 ± 0.184 (0.405) C:83% T:NA | pCi/L | 03/03/20 08:21 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.0666 ± 0.350 (0.799) C:79% T:89% | pCi/L | 03/11/20 16:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.178 ± 0.534 (1.20) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|--|-------|----------------|------------|------|
| Sample: YGWC-26I Lab ID: 2628972009 Collected: 02/13/20 11:30 Received: 02/18/20 09:10 Matrix: Water | | | | | | |
| PWS: Site ID: Sample Type: | | | | | | |
| Radium-226 | EPA 9315 | 0.762 ± 0.383 (0.500) C:76% T:NA | pCi/L | 03/03/20 08:21 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 1.10 ± 0.474 (0.764) C:80% T:85% | pCi/L | 03/11/20 16:11 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.86 ± 0.857 (1.26) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

| Sample: DUP-1 | | Lab ID: 2628972010 | Collected: 02/12/20 00:00 | Received: 02/18/20 09:10 | Matrix: Water | |
|---------------|--------------------------|---|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.497 ± 0.311 (0.493) C:92% T:NA | pCi/L | 03/03/20 08:21 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.613 ± 0.439 (0.860) C:79% T:90% | pCi/L | 03/11/20 16:11 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.11 ± 0.750 (1.35) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Sample: DUP-2 | | Lab ID: 2628972011 | Collected: 02/13/20 00:00 | Received: 02/18/20 09:10 | Matrix: Water | |
|---------------|--------------------------|---|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.366 ± 0.313 (0.598) C:92% T:NA | pCi/L | 03/03/20 08:21 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.174 ± 0.377 (0.834) C:77% T:89% | pCi/L | 03/11/20 16:11 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.540 ± 0.690 (1.43) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Sample: EB-1-2-13-20 | | Lab ID: 2628972012 | Collected: 02/13/20 11:00 | Received: 02/18/20 09:10 | Matrix: Water | |
|----------------------|--------------------------|---|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.213 ± 0.232 (0.466) C:96% T:NA | pCi/L | 03/03/20 08:23 | 13982-63-3 | |
| Radium-228 | EPA 9320 | -0.0665 ± 0.265 (0.640) C:79% T:96% | pCi/L | 03/11/20 16:11 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.213 ± 0.497 (1.11) | pCi/L | 03/12/20 11:02 | 7440-14-4 | |

| Sample: YGWC-29I | | Lab ID: 2628972013 | Collected: 02/13/20 13:02 | Received: 02/18/20 09:10 | Matrix: Water | |
|------------------|--------------------------|---|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.678 ± 0.222 (0.244) C:89% T:NA | pCi/L | 03/03/20 17:19 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.128 ± 0.370 (0.830) C:79% T:90% | pCi/L | 03/11/20 16:11 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.806 ± 0.592 (1.07) | pCi/L | 03/12/20 11:03 | 7440-14-4 | |

| Sample: FB-1-2-13-20 | | Lab ID: 2628972014 | Collected: 02/13/20 13:30 | Received: 02/18/20 09:10 | Matrix: Water | |
|----------------------|----------|---|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.331 ± 0.164 (0.248) C:99% T:NA | pCi/L | 03/03/20 17:19 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.433 ± 0.411 (0.842) C:78% T:85% | pCi/L | 03/11/20 16:11 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

| Sample: FB-1-2-13-20 | | Lab ID: 2628972014 | Collected: 02/13/20 13:30 | Received: 02/18/20 09:10 | Matrix: Water | |
|-----------------------------|--------------------------|-----------------------------|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Total Radium | Total Radium Calculation | 0.764 ± 0.575 (1.09) | pCi/L | 03/12/20 11:03 | 7440-14-4 | |

| Sample: FB-2-2-13-20 | | Lab ID: 2628972015 | Collected: 02/13/20 13:40 | Received: 02/18/20 09:10 | Matrix: Water | |
|-----------------------------|--------------------------|--|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.376 ± 0.161 (0.208) C:93% T:NA | pCi/L | 03/03/20 17:19 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.736 ± 0.546 (1.09) C:74% T:91% | pCi/L | 03/11/20 16:12 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.11 ± 0.707 (1.30) | pCi/L | 03/12/20 11:03 | 7440-14-4 | |

| Sample: EB-2-2-13-20 | | Lab ID: 2628972016 | Collected: 02/13/20 13:45 | Received: 02/18/20 09:10 | Matrix: Water | |
|-----------------------------|--------------------------|---|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.287 ± 0.156 (0.243) C:93% T:NA | pCi/L | 03/03/20 17:19 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.395 ± 0.430 (0.897) C:75% T:90% | pCi/L | 03/11/20 16:12 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.682 ± 0.586 (1.14) | pCi/L | 03/12/20 11:03 | 7440-14-4 | |

| Sample: YGWC-27S | | Lab ID: 2628972017 | Collected: 02/13/20 11:50 | Received: 02/18/20 09:10 | Matrix: Water | |
|-------------------------|--------------------------|---|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 0.382 ± 0.194 (0.317) C:95% T:NA | pCi/L | 03/03/20 17:19 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.579 ± 0.401 (0.771) C:77% T:93% | pCi/L | 03/11/20 16:12 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.961 ± 0.595 (1.09) | pCi/L | 03/12/20 11:03 | 7440-14-4 | |

| Sample: YGWC-27I | | Lab ID: 2628972018 | Collected: 02/13/20 10:25 | Received: 02/18/20 09:10 | Matrix: Water | |
|-------------------------|--------------------------|--|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| Radium-226 | EPA 9315 | 3.18 ± 0.596 (0.230) C:95% T:NA | pCi/L | 03/03/20 17:19 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 1.30 ± 0.533 (0.849) C:75% T:90% | pCi/L | 03/11/20 16:12 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 4.48 ± 1.13 (1.08) | pCi/L | 03/12/20 11:03 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

| Parameters | | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--|--------------------------|---|-------|----------------|------------|------|
| Radium-226 | | EPA 9315 | 0.499 ± 0.184 (0.222) C:97% T:NA | pCi/L | 03/03/20 17:19 | 13982-63-3 | |
| Radium-228 | | EPA 9320 | 0.539 ± 0.383 (0.739) C:76% T:94% | pCi/L | 03/11/20 16:12 | 15262-20-1 | |
| Total Radium | | Total Radium Calculation | 1.04 ± 0.567 (0.961) | pCi/L | 03/12/20 11:03 | 7440-14-4 | |

| Parameters | | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--|--------------------------|---|-------|----------------|------------|------|
| Radium-226 | | EPA 9315 | 0.412 ± 0.177 (0.244) C:94% T:NA | pCi/L | 03/03/20 17:19 | 13982-63-3 | |
| Radium-228 | | EPA 9320 | 0.711 ± 0.480 (0.928) C:76% T:87% | pCi/L | 03/11/20 16:12 | 15262-20-1 | |
| Total Radium | | Total Radium Calculation | 1.12 ± 0.657 (1.17) | pCi/L | 03/12/20 11:03 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2628972
Pace Project No.: 30350269

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.

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: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

Workorder: 2628972 Workorder Name: PLANT YATES AP-2 - FEB EVENT

State Of Origin: GA

Cert. Needed: Yes No

Owner Received Date: 2/12/2020 Results Requested By: 2/26/2020

Kevin Herring
Pace Analytical Charlotte
9800 Kincey Ave.
Suite 100
Huntersville, NC 28078
Phone (704)875-9092

Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2, 3, & 4
Greensburg, PA 15601
Phone (724)850-5600



21 days
2/26/2020

WO#: 30350269



30350269

| Item | Sample ID | Sample Type | Collection Date/Time | Location | Matrix | Container | Received Date/Time | Received By | Released By | Temperature on Receipt (NA-°C) | Custody Seal | Y or N | Received on Ice | Y or N | Samples Intact | Y or N |
|------|-----------|-------------|----------------------|------------|--------|-----------|--------------------|-------------|-------------|--------------------------------|--------------|--------|-----------------|--------|----------------|--------|
| 1 | YGWA-11 | PS | 2/10/2020 15:21 | 2628972001 | Water | 1 | 2/14/20 10:15 | [Signature] | [Signature] | NA | Y | N | Y | N | X | N |
| 2 | YGWA-1D | PS | 2/10/2020 14:53 | 2628972002 | Water | 1 | | | | NA | Y | N | Y | N | X | N |
| 3 | YGWA-2I | PS | 2/11/2020 12:10 | 2628972003 | Water | 1 | | | | NA | Y | N | Y | N | X | N |
| 4 | YGWA-3I | PS | 2/11/2020 16:05 | 2628972004 | Water | 1 | | | | NA | Y | N | Y | N | X | N |
| 5 | YGWA-3D | PS | 2/12/2020 10:40 | 2628972005 | Water | 1 | | | | NA | Y | N | Y | N | X | N |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|-----------|-------------|---------------|-------------|---------------|
| 1 | [Signature] | 2/13/20 17:00 | [Signature] | 2-14-20 10:15 |
| 2 | | | | |
| 3 | | | | |

Cooler Temperature on Receipt: NA-°C Custody Seal: Y or N Received on Ice: Y or N Samples Intact: X or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

Workorder: 2628972 Workorder Name: PLANT YATES AP-2 - FEB EVENT

Kevin Herring
Pace Analytical Charlotte
9800 Kinsey Ave.
Suite 100
Huntersville, NC 28078
Phone (704)875-9092

Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2,3, & 4
Greensburg, PA 15601
Phone (724)850-5600

State Of Origin: GA Yes No
 Cert. Needed: Yes No
 Owner Received Date: 2/12/2020 Results Requested By: 2/26/2020



2/26/20
2/26/2020

WO#: 30350269

PM: JAC Due Date: 03/06/20
 CLIENT: PACE_26_ATGA

| Item | Sample ID | Sample Type | Collection Date/Time | Analysis Date/Time | Matrix | NOH | LAB USE ONLY |
|------|--------------|-------------|----------------------|--------------------|--------|-----|--------------|
| 1 | YGWA-11 | PS | 2/10/2020 15:21 | 2628972001 | Water | | |
| 2 | YGWA-1D | PS | 2/10/2020 14:53 | 2628972002 | Water | | |
| 3 | YGWA-2I | PS | 2/10/2020 12:10 | 2628972003 | Water | | |
| 4 | YGWA-3I | PS | 2/11/2020 16:05 | 2628972004 | Water | | |
| 5 | YGWA-2P | PS | 2/12/2020 10:40 | 2628972005 | Water | | |
| 6 | YGWA-30I | PS | 2/12/2020 14:55 | 2628972006 | Water | | |
| 7 | YGWA-14S | PS | 2/12/2020 13:30 | 2628972007 | Water | | |
| 8 | YGWC-26S | PS | 2/13/2020 10:40 | 2628972008 | Water | | |
| 9 | YGWC-26I | PS | 2/13/2020 11:30 | 2628972009 | Water | | |
| 10 | DUP-1 | PS | 2/12/2020 00:00 | 2628972010 | Water | | |
| 11 | DUP-2 | PS | 2/13/2020 00:00 | 2628972011 | Water | | |
| 12 | EB-1-2-13-20 | PS | 2/13/2020 11:00 | 2628972012 | Water | | |
| 13 | YGWC-29I | PS | 2/13/2020 13:02 | 2628972013 | Water | | |
| 14 | FB-1-2-13-20 | PS | 2/13/2020 13:30 | 2628972014 | Water | | |
| 15 | FB-2-2-13-20 | PS | 2/13/2020 13:40 | 2628972015 | Water | | |
| 16 | EB-2-2-13-20 | PS | 2/13/2020 13:45 | 2628972016 | Water | | |
| 17 | YGWC-27S | PS | 2/13/2020 11:50 | 2628972017 | Water | | |
| 18 | YGWC-27I | PS | 2/13/2020 10:25 | 2628972018 | Water | | |
| 19 | YGWC-28S | PS | 2/13/2020 13:45 | 2628972019 | Water | | |

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace NC

Project # 30350269

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1657 9506 2497

| | |
|------------|-----------|
| Label | <u>PL</u> |
| LIMS Login | <u>PA</u> |

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

| Comments: | Yes | No | N/A | pH paper Lot# | Date and Initials of person examining contents: |
|---|-------------------------------------|-------------------------------------|--------------------------|-----------------------------------|---|
| | | | | <u>1C110391</u> | <u>PL 2-17-20</u> |
| Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Sampler Name & Signature on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| -Includes date/time/ID Matrix: <u>WT</u> | | | | | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Short Hold Time Analysis (<72hr remaining): | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Rush Turn Around Time Requested: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Correct Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Orthophosphate field filtered | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| Hex Cr Aqueous sample field filtered | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| Organic Samples checked for dechlorination: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| All containers have been checked for preservation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | | | | <u>PL 2</u> | |
| All containers meet method preservation requirements. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>PL</u> | Date/time of preservation |
| | | | | Lot # of added preservative | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| Trip Blank Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| Rad Samples Screened < 0.5 mrem/hr | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>PL</u> | Date: <u>2-17-20</u> |

Client Notification/ Resolution:

Person-Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

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)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

WO#: 30350269

Pittsburgh Lab Sample Condition Upon Receipt

PM: JAC Due Date: 03/06/20
CLIENT: PACE_26_ATGA



Client Name: Pace NC

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 1657 9506 3368

Label DK
LIMS Login DK

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

| Comments: | pH paper Lot# | | | Date and initials of person examining contents: <u>DK 2-18-20</u> |
|---|-------------------------------------|-------------------------------------|--------------------------|---|
| | Yes | No | N/A | |
| Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. |
| -Includes date/time/ID Matrix: <u>WT</u> | | | | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. |
| Short Hold Time Analysis (<72hr remaining): | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. |
| Rush Turn Around Time Requested: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. |
| Correct Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Containers Intact: <u>DK 2-18-20</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 11. <u>1 bottle for sample 020 received half spilled</u> |
| Orthophosphate field filtered | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 12. |
| Hex Cr Aqueous sample field filtered | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 13. |
| Organic Samples checked for dechlorination: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 14. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 15. |
| All containers have been checked for preservation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. |
| exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | | | | <u>DK 2</u> |
| All containers meet method preservation requirements. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>DK</u> Date/time of preservation: |
| | | | | Lot # of added preservative |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 17. |
| Trip Blank Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 18. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Rad Samples Screened < 0.5 mrem/hr | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>DK</u> Date: <u>2-18-20</u> |

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

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)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/2/2020
Worklist: 52608
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Method Blank Assessment | |
|-------------------------------------|--------------|
| MB Sample ID | 1868412 |
| MB concentration: | 0.603 |
| M/B Counting Uncertainty: | 0.245 |
| MB MDC: | 0.342 |
| MB Numerical Performance Indicator: | 4.83 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs MDC: | See Comment* |

| Laboratory Control Sample Assessment | |
|---|-----------|
| LCSD (Y or N)? | N |
| LCSD52608 | LCSD52608 |
| Count Date: | 3/3/2020 |
| Spike I.D.: | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.050 |
| Volume Used (mL): | 0.10 |
| Aliquot Volume (L, g, F): | 0.512 |
| Target Conc. (pCi/L, g, F): | 4.695 |
| Uncertainty (Calculated): | 0.066 |
| Result (pCi/L, g, F): | 4.517 |
| LCSD Counting Uncertainty (pCi/L, g, F): | 0.744 |
| Numerical Performance Indicator: | -0.47 |
| Percent Recovery: | 96.22% |
| Status vs Numerical Indicator: | N/A |
| Status vs Recovery: | Pass |
| Upper % Recovery Limits: | 125% |
| Lower % Recovery Limits: | 75% |

| Duplicate Sample Assessment | |
|---|---------------|
| Sample I.D.: | 2628973004 |
| Duplicate Sample I.D.: | 2628973004DUP |
| Sample Result (pCi/L, g, F): | 3.060 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.623 |
| Sample Duplicate Result (pCi/L, g, F): | 2.847 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.625 |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | 0.473 |
| Duplicate RPD: | 7.20% |
| 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.

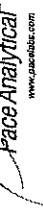
Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|---|----------|----------|
| Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): 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 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: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Counting Uncertainty (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: | |

LAB
3-3-2020
LAM 3/3/20

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/2/2020
Worklist: 52608
Matrix: DW

Analyst must manually enter all fields highlighted in yellow.

| Method Blank Assessment | |
|-------------------------------------|--------------|
| MB Sample ID | 1868412 |
| MB Concentration: | 0.603 |
| M/B Counting Uncertainty: | 0.245 |
| MB MDC: | 0.342 |
| MB Numerical Performance Indicator: | 4.83 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | See Comment* |

| Laboratory Control Sample Assessment | |
|---|-----------|
| LCS# (Y or N)? | N |
| LCS52608 | LCS052608 |
| Count Date: | 3/3/2020 |
| Spike ID: | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.050 |
| Volume Used (mL): | 0.10 |
| Aliquot Volume (L, g, F): | 0.512 |
| Target Conc. (pCi/L, g, F): | 4.695 |
| Uncertainty (Calculated): | 0.056 |
| Result (pCi/L, g, F): | 4.517 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.744 |
| Numerical Performance Indicator: | -0.47 |
| Percent Recovery: | 96.22% |
| Status vs Numerical Indicator: | N/A |
| Status vs Recovery: | Pass |
| Upper % Recovery Limits: | 125% |
| Lower % Recovery Limits: | 75% |

| Duplicate Sample Assessment | |
|---|---------------|
| Sample I.D.: | 2628973003 |
| Duplicate Sample I.D.: | 2628973003DUP |
| Sample Result (pCi/L, g, F): | 1.224 |
| Sample Duplicate Result (pCi/L, g, F): | 0.444 |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | 0.496 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.335 |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | 2.565 |
| Duplicate RPD: | 84.62% |
| 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:

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

***Batch must be re-prepped due to unacceptable precision. - Numerical indicator OK

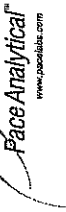
| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|--|----------|----------|
| Sample Collection Date: | | | |
| Sample I.D.: | | | |
| Sample MS I.D.: | | | |
| Sample MSD I.D.: | | | |
| Spike I.D.: | | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | | |
| Spike 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 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: | |
| Sample Matrix Spike Duplicate Result: | |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | |
| Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): | |
| Matrix Spike Duplicate Result Counting Uncertainty (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: | |

VAM 3/3/20

HUB
3-3-2020

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/3/2020
Worklist: 52610
Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|--------------|
| MB Sample ID | 1868414 |
| MB concentration: | 0.486 |
| MIB Counting Uncertainty: | 0.188 |
| MB MDC: | 0.217 |
| MB Numerical Performance Indicator: | 5.69 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | See Comment* |

| Laboratory Control Sample Assessment | |
|---|----------|
| LCS# (Y or N)? | N |
| LCS52610 | LCS52610 |
| Count Date: | 3/4/2020 |
| Spike I.D.: | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.050 |
| Volume Used (mL): | 0.10 |
| Aliquot Volume (L, g, F): | 0.502 |
| Target Conc. (pCi/L, g, F): | 4.795 |
| Uncertainty (Calculated): | 0.088 |
| Result (pCi/L, g, F): | 4.905 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.753 |
| Numerical Performance Indicator: | 0.29 |
| Percent Recovery: | 102.29% |
| Status vs Numerical Indicator: | N/A |
| Status vs Recovery: | Pass |
| Upper % Recovery Limits: | 125% |
| Lower % Recovery Limits: | 75% |

| Duplicate Sample Assessment | |
|---|---------------|
| Sample I.D.: | 2628972014 |
| Duplicate Sample I.D.: | 2628972014DUP |
| Sample Result (pCi/L, g, F): | 0.331 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.157 |
| Sample Duplicate Result (pCi/L, g, F): | 0.427 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.278 |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | -0.596 |
| Duplicate RPD: | 25-56% |
| 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:
*The method blank result is below the reporting limit for this analysis and is acceptable.
**Beta must be re-prepped due to unacceptable precision - Results < 5x MDC, N/A < 3 acceptable

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|---|----------|----------|
| Sample Collection Date: | Sample I.D.: | | |
| | Sample MS I.D.: | | |
| | Sample MSD I.D.: | | |
| | Spike I.D.: | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | Spike Volume Used in MS (mL): | | |
| | Spike Volume Used in MSD (mL): | | |
| | MS Aliquot (L, g, F): | | |
| | MSD Aliquot (L, g, F): | | |
| | MS Target Conc. (pCi/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 Counting Uncertainty (pCi/L, g, F): | | |
| 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 I.D.: |
| Sample MS I.D.: | Sample MS I.D.: |
| Sample MSD I.D.: | Sample MSD I.D.: |
| Sample Matrix Spike Result: | Sample Matrix Spike Duplicate Result: |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): |
| Sample Matrix Spike Duplicate Result: | Sample Matrix Spike Duplicate Duplicate Result: |
| Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): | Duplicate Numerical Performance Indicator: |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | (Based on the Percent Recoveries) MS/MSD Duplicate RPD: |
| | MS/MSD Duplicate Status vs Numerical Indicator: |
| | MS/MSD Duplicate Status vs RPD: |
| | % RPD Limit: |

RAM314120

DEBB HLB
MMW

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: LAL
 Date: 3/3/2020
 Worklist: 52610
 Matrix: DW



| Method Blank Assessment | |
|-------------------------------------|--------------|
| MB Sample ID | 1668414 |
| MB Concentration: | 0.486 |
| MB Counting Uncertainty: | 0.168 |
| MB MDC: | 0.217 |
| MB Numerical Performance Indicator: | 5.69 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | See Comment* |

| Laboratory Control Sample Assessment | |
|---|----------|
| LCSID (Y or N)? | N |
| LCS52610 | LCS52610 |
| Count Date: | 3/4/2020 |
| Spike I.D.: | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.050 |
| Volume Used (mL): | 0.10 |
| Aliquot Volume (L, g, F): | 0.502 |
| Target Conc. (pCi/L, g, F): | 4.795 |
| Uncertainty (Calculated): | 0.058 |
| Result (pCi/L, g, F): | 4.905 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.753 |
| Numerical Performance Indicator: | 0.29 |
| Percent Recovery: | 102.29% |
| Status vs Numerical Indicator: | N/A |
| Status vs Recovery: | Pass |
| Upper % Recovery Limits: | 125% |
| Lower % Recovery Limits: | 75% |

| Duplicate Sample Assessment | |
|---|---------------|
| Sample I.D.: | 2628972015 |
| Duplicate Sample I.D.: | 2628972015DUP |
| Sample Result (pCi/L, g, F): | 0.376 |
| Sample Duplicate Result (pCi/L, g, F): | 0.151 |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | 0.344 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.256 |
| Are sample and/or duplicate results below RL? | See Below # |
| Duplicate Numerical Performance Indicator: | 0.208 |
| Duplicate RPD: | 8.79% |
| 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:
 *The method blank result is below the reporting limit for this analysis and is acceptable.

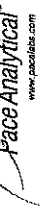
| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|---|----------|----------|
| Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): | | |
| Sample Result: Sample Result 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 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: Sample Matrix Spike Duplicate Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit: |

Handwritten notes:
 0.208/14.15
 DW

Handwritten: 1668414

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: VAL
Date: 3/2/2020
Worklist: 52609
Matrix: WT

| Method Blank Assessment | MB Sample ID | 1866413 |
|-------------------------------------|--------------|---------|
| MB concentration: | 0.411 | |
| MB 2 Sigma CSU: | 0.292 | |
| MB MDC: | 0.553 | |
| MB Numerical Performance Indicator: | 2.76 | |
| MB Status vs Numerical Indicator: | Warning | |
| MB Status vs. MDC: | Pass | |

| Laboratory Control Sample Assessment | LCS (Y or N)? | |
|---|---------------|-----------|
| | LCS52609 | Y |
| Count Date: | 3/11/2020 | LCS52609 |
| Spike I.D.: | 19-057 | 3/11/2020 |
| Decay Corrected Spike Concentration (pCi/mL): | 34.881 | 19-057 |
| Volume Used (mL): | 0.10 | 34.881 |
| Aliquot Volume (L, g, F): | 0.825 | 0.10 |
| Target Conc. (pCi/L, g, F): | 4.228 | 0.806 |
| Uncertainty (Calculated): | 0.304 | 4.330 |
| Result (pCi/L, g, F): | 3.218 | 0.312 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.783 | 3.862 |
| Numerical Performance Indicator: | -2.36 | 0.924 |
| Percent Recovery: | 76.07% | -0.94 |
| Status vs Numerical Indicator: | N/A | 89.18% |
| Status vs Recovery: | Pass | N/A |
| Upper % Recovery Limits: | 135% | Pass |
| Lower % Recovery Limits: | 60% | 60% |

| Duplicate Sample Assessment | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
|---|---|
| Sample I.D.: | |
| Duplicate Sample I.D.: | |
| Sample Result (pCi/L, g, F): | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | |
| Duplicate Numerical Performance Indicator: | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

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

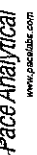
Comments:

Handwritten notes:
3-2-20
VAL

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

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

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/12/2020
Worklist: 52611
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 1868415 |
| MB concentration: | 0.127 |
| M/B 2 Sigma CSU: | 0.308 |
| MB MDC: | 0.687 |
| MB Numerical Performance Indicator: | 0.81 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCS/D (Y or N)? | |
|---|-----------------|-----------|
| | LCS52611 | LCS52611 |
| Count Date: | 3/11/2020 | 3/11/2020 |
| Spike I.D.: | 19-057 | 19-057 |
| Decay Corrected Spike Concentration (pCi/mL): | 34.880 | 34.880 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.810 | 0.803 |
| Target Conc. (pCi/L, g, F): | 4.304 | 4.345 |
| Uncertainty (Calculated): | 0.310 | 0.313 |
| Result (pCi/L, g, F): | 3.175 | 3.167 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.788 | 0.804 |
| Numerical Performance Indicator: | -2.61 | -2.68 |
| Percent Recovery: | 73.76% | 72.88% |
| Status vs Numerical Indicator: | N/A | N/A |
| Upper % Recovery Limits: | Pass | Pass |
| Lower % Recovery Limits: | 135% | 135% |
| | 60% | 60% |

| Duplicate Sample Assessment | |
|---|----------|
| Sample I.D.: | LCS52611 |
| Duplicate Sample I.D.: | LCS52611 |
| Sample Result (pCi/L, g, F): | 3.175 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.788 |
| Sample Duplicate Result (pCi/L, g, F): | 3.167 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.804 |
| Are sample and/or duplicate results below RL? | NO |
| Duplicate Numerical Performance Indicator: | 0.015 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 1.23% |
| Duplicate Status vs Numerical Indicator: | Pass |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

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

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

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

Comments:

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3-12-20

Re-228 NELAC DW2
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LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Yates Ash Pond-2

Scan Even February 2020

Georgia Power Company – Plant Yates Ash Pond-2

Quality Control Review of Analytical Data – February 2020

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Pace Analytical Services, Atlanta, Asheville, and Pittsburgh for groundwater samples collected at Plant Yates AP-2 between February 10, 2020 and February 13, 2020. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA 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. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and COCs were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met, with the exceptions of Barium and Radium-228 on YGWC-27S (2628972017) and DUP-2 (2628972011) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

ND: The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Samples YGWC-27S (2628972017) and DUP-2 (2628972011) were qualified as estimated (J) for Barium and Radium-228 as the respective field relative percent differences (RPDs) exceeded QC criteria (140.35% and 107.57% above limit of 25).

- Certain arsenic results in SDG 2628972 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the method detection limit (MDL) was raised to the sample result as part of the qualification process.
- Certain radium results in SDG 2628972 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Yates Ash Pond-2 sampled between February 10, 2020 and February 13, 2020 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Plant Yates Ash Pond-2

Sample Summary Table – Scan Event February 2020

| SDG | Field Identification | Collection Date | Lab Identification | Matrix | QC Samples | Analyses | | |
|-------|----------------------|-----------------|--------------------|--------|---------------|-----------------------|----------------|------------------------------|
| | | | | | | Metals (6020B, 7470A) | Anions (300.0) | Radium-226/-228 (9315, 9320) |
| 28972 | YGWA-1I | 2/10/2020 | 2628972001 | GW | | X | X | X |
| 28972 | YGWA-1D | 2/10/2020 | 2628972002 | GW | | X | X | X |
| 28972 | YGWA-2I | 2/11/2020 | 2628972003 | GW | | X | X | X |
| 28972 | YGWA-3I | 2/11/2020 | 2628972004 | GW | | X | X | X |
| 28972 | YGWA-3D | 2/12/2020 | 2628972005 | GW | | X | X | X |
| 28972 | YGWA-30I | 2/12/2020 | 2628972006 | GW | | X | X | X |
| 28972 | YGWA-14S | 2/12/2020 | 2628972007 | GW | | X | X | X |
| 28972 | YGWC-26S | 2/13/2020 | 2628972008 | GW | | X | X | X |
| 28972 | YGWC-26I | 2/13/2020 | 2628972009 | GW | | X | X | X |
| 28972 | DUP-1 | 2/12/2020 | 2628972010 | GW | FD (YGWA-14S) | X | X | X |
| 28972 | DUP-2 | 2/13/2020 | 2628972011 | GW | FD (YGWC-27S) | X | X | X |
| 28972 | EB-1-2-13-20 | 2/13/2020 | 2628972012 | WQ | EB | X | X | X |
| 28972 | YGWC-29I | 2/13/2020 | 2628972013 | GW | | X | X | X |
| 28972 | FB-1-2-13-20 | 2/13/2020 | 2628972014 | WQ | FB | X | X | X |
| 28972 | FB-2-2-13-20 | 2/13/2020 | 2628972015 | WQ | FB | X | X | X |
| 28972 | EB-2-2-13-20 | 2/13/2020 | 2628972016 | WQ | EB | X | X | X |
| 28972 | YGWC-27S | 2/13/2020 | 2628972017 | GW | | X | X | X |
| 28972 | YGWC-27I | 2/13/2020 | 2628972018 | GW | | X | X | X |
| 28972 | YGWC-28S | 2/13/2020 | 2628972019 | GW | | X | X | X |
| 28972 | YGWC-28I | 2/13/2020 | 2628972020 | GW | | X | X | X |

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 GW – Groundwater
 QC – Quality Control
 TDS – Total Dissolved Solids
 WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Yates Ash Pond-2

Qualifier Summary Table – Scan Event February 2020

| SDG | Field Identification | Constituent | New RL | New MDL or MDC | Qualifier | Reason |
|-------|----------------------|-------------|--------|----------------|-----------|------------------------|
| 28972 | YGWC-27S | Barium | | | J | RPD exceeds field goal |
| 28972 | DUP-2 | Barium | | | J | RPD exceeds field goal |
| 28972 | YGWC-27S | Radium-228 | | | J | RPD exceeds field goal |
| 28972 | DUP-2 | Radium-228 | | | J | RPD exceeds field goal |
| 28972 | YGWA-1I | Arsenic | | 0.0005 | ND | Blank detection |
| 28972 | YGWA-1D | Arsenic | | 0.0026 | ND | Blank detection |
| 28972 | YGWA-2I | Arsenic | | 0.0044 | ND | Blank detection |
| 28972 | YGWA-3I | Arsenic | | 0.0041 | ND | Blank detection |
| 28972 | YGWA-3D | Arsenic | | 0.0038 | ND | Blank detection |
| 28972 | YGWA-30I | Arsenic | | 0.0032 | ND | Blank detection |
| 28972 | YGWA-1I | Radium-226 | | 0.552 | ND | Blank detection |
| 28972 | YGWA-1I | Radium-228 | | 0.726 | ND | Blank detection |
| 28972 | YGWA-1D | Radium-226 | | 0.471 | ND | Blank detection |
| 28972 | YGWA-1D | Radium-228 | | 0.713 | ND | Blank detection |
| 28972 | YGWA-2I | Radium-226 | | 0.488 | ND | Blank detection |
| 28972 | YGWA-2I | Radium-228 | | 0.930 | ND | Blank detection |
| 28972 | YGWA-3I | Radium-226 | | 0.434 | ND | Blank detection |
| 28972 | YGWA-3I | Radium-228 | | 0.788 | ND | Blank detection |
| 28972 | YGWA-3D | Radium-226 | | 0.550 | ND | Blank detection |
| 28972 | YGWA-3D | Radium-228 | | 0.830 | ND | Blank detection |
| 28972 | YGWA-30I | Radium-226 | | 0.520 | ND | Blank detection |
| 28972 | YGWA-30I | Radium-228 | | 0.750 | ND | Blank detection |
| 28972 | YGWA-14S | Radium-226 | | 0.394 | ND | Blank detection |
| 28972 | YGWA-14S | Radium-228 | | 0.849 | ND | Blank detection |
| 28972 | YGWC-26S | Radium-226 | | 0.405 | ND | Blank detection |
| 28972 | YGWC-26S | Radium-228 | | 0.799 | ND | Blank detection |
| 28972 | YGWC-26I | Radium-226 | | 0.500 | ND | Blank detection |
| 28972 | YGWC-26I | Radium-228 | | 0.764 | ND | Blank detection |
| 28972 | YGWC-29I | Radium-226 | | 0.244 | ND | Blank detection |
| 28972 | YGWC-29I | Radium-228 | | 0.830 | ND | Blank detection |

Abbreviations:

MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

TABLE 2 (continued)

Georgia Power Company – Plant Yates Ash Pond-2

Qualifier Summary Table – Scan Event February 2020

| SDG | Field Identification | Constituent | New RL | New MDL or MDC | Qualifier | Reason |
|-------|----------------------|-------------|--------|----------------|-----------|-----------------|
| 28972 | YGWC-27S | Radium-226 | | 0.317 | ND | Blank detection |
| 28972 | YGWC-27S | Radium-228 | | 0.771 | ND | Blank detection |
| 28972 | YGWC-27I | Radium-226 | | 0.230 | ND | Blank detection |
| 28972 | YGWC-27I | Radium-228 | | 0.849 | ND | Blank detection |
| 28972 | YGWC-28S | Radium-226 | | 0.222 | ND | Blank detection |
| 28972 | YGWC-28S | Radium-228 | | 0.739 | ND | Blank detection |
| 28972 | YGWC-28I | Radium-226 | | 0.244 | ND | Blank detection |
| 28972 | YGWC-28I | Radium-228 | | 0.928 | ND | Blank detection |

Abbreviations:

MDC – Minimum Detectable Concentration
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 MDL – Method Detection Limit
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
 ND – Non-Detect Result

March 2020

Semiannual Event



April 08, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: PLANT YATES AP-2
Pace Project No.: 2630320

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 2020. 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 - Atlanta, GA

This report was revised 4/8/20 to correct a reporting error for sample DUP-1.

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

Sincerely,



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

Enclosures

cc: Monte Jones, ACC
Kristen Jurinko
Matt Malone, Atlantic Coast Consulting
Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Ryan Walker



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|--------------|--------|----------------|----------------|
| 2630320001 | YGWA-1I | Water | 03/18/20 15:37 | 03/20/20 14:10 |
| 2630320002 | YGWA-1D | Water | 03/19/20 10:33 | 03/20/20 14:10 |
| 2630320003 | YGWA-2I | Water | 03/19/20 12:37 | 03/20/20 14:10 |
| 2630320004 | YGWA-3I | Water | 03/19/20 11:00 | 03/20/20 14:10 |
| 2630320005 | YGWA-3D | Water | 03/19/20 12:10 | 03/20/20 14:10 |
| 2630320006 | YGWA-14S | Water | 03/18/20 15:50 | 03/20/20 14:10 |
| 2630320007 | YGWA-30I | Water | 03/19/20 14:20 | 03/20/20 14:10 |
| 2630320008 | EB-1-3-19-20 | Water | 03/19/20 13:15 | 03/20/20 14:10 |
| 2630320009 | FB-1-3-19-20 | Water | 03/19/20 15:15 | 03/20/20 14:10 |
| 2630320011 | YGWC-26S | Water | 03/19/20 16:47 | 03/20/20 14:10 |
| 2630320012 | YGWC-26I | Water | 03/20/20 10:47 | 03/20/20 14:10 |
| 2630320013 | YGWC-27S | Water | 03/20/20 12:00 | 03/20/20 14:10 |
| 2630320014 | YGWC-27I | Water | 03/20/20 12:05 | 03/20/20 14:10 |
| 2630320015 | YGWC-28S | Water | 03/19/20 14:55 | 03/20/20 14:10 |
| 2630320016 | YGWC-28I | Water | 03/19/20 16:00 | 03/20/20 14:10 |
| 2630320017 | YGWC-29I | Water | 03/20/20 10:12 | 03/20/20 14:10 |
| 2630320018 | EB-2-3-19-20 | Water | 03/19/20 13:15 | 03/20/20 14:10 |
| 2630320019 | FB-2-3-19-20 | Water | 03/19/20 11:15 | 03/20/20 14:10 |
| 2630320020 | DUP-2 | Water | 03/20/20 00:00 | 03/20/20 14:10 |
| 2630255009 | DUP-1 | Water | 03/18/20 00:00 | 03/20/20 14:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|--------------|------------------------|----------|-------------------|------------|
| 2630320001 | YGWA-1I | EPA 6010D | DRB | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| 2630320002 | YGWA-1D | EPA 6010D | DRB | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| 2630320003 | YGWA-2I | EPA 6010D | DRB | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| 2630320004 | YGWA-3I | EPA 6010D | DRB | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| 2630320005 | YGWA-3D | EPA 6010D | DRB | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| 2630320006 | YGWA-14S | EPA 6010D | DRB | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| 2630320007 | YGWA-30I | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| 2630320008 | EB-1-3-19-20 | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| 2630320009 | FB-1-3-19-20 | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| 2630320011 | YGWC-26S | EPA 6010D | KLH | 1 | PASI-GA |

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SAMPLE ANALYTE COUNT

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|--------------|------------------------|----------|-------------------|------------|
| 2630320012 | YGWC-26I | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| 2630320013 | YGWC-27S | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| 2630320014 | YGWC-27I | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| 2630320015 | YGWC-28S | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| 2630320016 | YGWC-28I | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| 2630320017 | YGWC-29I | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| 2630320018 | EB-2-3-19-20 | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| 2630320019 | FB-2-3-19-20 | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | KLH | 1 | PASI-GA |
| 2630320020 | DUP-2 | EPA 6020B | CSW | 13 | PASI-GA |

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SAMPLE ANALYTE COUNT

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|------------------------|----------|-------------------|------------|
| 2630255009 | DUP-1 | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| | | EPA 6010D | DRB | 1 | PASI-GA |
| | | EPA 6020B | CSW | 13 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Atlanta, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 2630320001 | YGWA-1I | | | | | |
| | Field pH | 6.19 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 2.1 | mg/L | 1.0 | 03/25/20 17:06 | |
| EPA 6020B | Antimony | 0.00040J | mg/L | 0.0030 | 03/26/20 18:06 | B |
| EPA 6020B | Barium | 0.0084J | mg/L | 0.010 | 03/26/20 18:06 | |
| EPA 6020B | Boron | 0.0087J | mg/L | 0.10 | 03/26/20 18:06 | |
| EPA 6020B | Chromium | 0.00044J | mg/L | 0.010 | 03/26/20 18:06 | |
| EPA 6020B | Cobalt | 0.00087J | mg/L | 0.0050 | 03/26/20 18:06 | |
| EPA 6020B | Lithium | 0.0024J | mg/L | 0.030 | 03/26/20 18:06 | |
| EPA 6020B | Molybdenum | 0.0056J | mg/L | 0.010 | 03/26/20 18:06 | |
| SM 2540C | Total Dissolved Solids | 35.0 | mg/L | 10.0 | 03/23/20 18:14 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.4 | mg/L | 1.0 | 03/27/20 09:54 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 5.3 | mg/L | 1.0 | 03/27/20 09:54 | |
| 2630320002 | YGWA-1D | | | | | |
| | Field pH | 7.03 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 15.0 | mg/L | 1.0 | 03/25/20 17:10 | |
| EPA 6020B | Arsenic | 0.00095J | mg/L | 0.0050 | 03/26/20 18:12 | |
| EPA 6020B | Barium | 0.0076J | mg/L | 0.010 | 03/26/20 18:12 | |
| EPA 6020B | Boron | 0.0085J | mg/L | 0.10 | 03/26/20 18:12 | |
| EPA 6020B | Chromium | 0.00084J | mg/L | 0.010 | 03/26/20 18:12 | |
| EPA 6020B | Lead | 0.00012J | mg/L | 0.0050 | 03/26/20 18:12 | |
| EPA 6020B | Lithium | 0.013J | mg/L | 0.030 | 03/26/20 18:12 | |
| EPA 6020B | Molybdenum | 0.0088J | mg/L | 0.010 | 03/26/20 18:12 | |
| SM 2540C | Total Dissolved Solids | 116 | mg/L | 10.0 | 03/24/20 14:10 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.1 | mg/L | 1.0 | 03/27/20 10:08 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.064J | mg/L | 0.30 | 03/27/20 10:08 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 10 | mg/L | 1.0 | 03/27/20 10:08 | |
| 2630320003 | YGWA-2I | | | | | |
| | Field pH | 7.22 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 27.4 | mg/L | 1.0 | 03/25/20 17:20 | |
| EPA 6020B | Antimony | 0.00030J | mg/L | 0.0030 | 03/26/20 18:18 | B |
| EPA 6020B | Arsenic | 0.00066J | mg/L | 0.0050 | 03/26/20 18:18 | |
| EPA 6020B | Barium | 0.0036J | mg/L | 0.010 | 03/26/20 18:18 | |
| EPA 6020B | Boron | 0.0073J | mg/L | 0.10 | 03/26/20 18:18 | |
| EPA 6020B | Chromium | 0.00048J | mg/L | 0.010 | 03/26/20 18:18 | |
| EPA 6020B | Lithium | 0.0022J | mg/L | 0.030 | 03/26/20 18:18 | |
| EPA 6020B | Molybdenum | 0.0046J | mg/L | 0.010 | 03/26/20 18:18 | |
| SM 2540C | Total Dissolved Solids | 148 | mg/L | 10.0 | 03/24/20 14:10 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 0.97J | mg/L | 1.0 | 03/27/20 10:23 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.093J | mg/L | 0.30 | 03/27/20 10:23 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 12.4 | mg/L | 1.0 | 03/27/20 10:23 | |
| 2630320004 | YGWA-3I | | | | | |
| | Field pH | 7.31 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 21.9 | mg/L | 1.0 | 03/25/20 17:24 | |
| EPA 6020B | Barium | 0.0029J | mg/L | 0.010 | 03/26/20 18:38 | |
| EPA 6020B | Boron | 0.0053J | mg/L | 0.10 | 03/26/20 18:38 | |
| EPA 6020B | Lithium | 0.014J | mg/L | 0.030 | 03/26/20 18:38 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|-----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 2630320004 | YGWA-3I | | | | | |
| EPA 6020B | Molybdenum | 0.0043J | mg/L | 0.010 | 03/26/20 18:38 | |
| SM 2540C | Total Dissolved Solids | 148 | mg/L | 10.0 | 03/24/20 14:10 | D6 |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.1 | mg/L | 1.0 | 03/27/20 10:37 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.11J | mg/L | 0.30 | 03/27/20 10:37 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 12.9 | mg/L | 1.0 | 03/27/20 10:37 | |
| 2630320005 | YGWA-3D | | | | | |
| | Field pH | 7.65 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 31.5 | mg/L | 1.0 | 03/25/20 17:27 | |
| EPA 6020B | Antimony | 0.00064J | mg/L | 0.0030 | 03/26/20 18:44 | B |
| EPA 6020B | Barium | 0.0072J | mg/L | 0.010 | 03/26/20 18:44 | |
| EPA 6020B | Boron | 0.0073J | mg/L | 0.10 | 03/26/20 18:44 | |
| EPA 6020B | Lead | 0.00017J | mg/L | 0.0050 | 03/26/20 18:44 | |
| EPA 6020B | Lithium | 0.023J | mg/L | 0.030 | 03/26/20 18:44 | |
| EPA 6020B | Molybdenum | 0.013 | mg/L | 0.010 | 03/26/20 18:44 | |
| SM 2540C | Total Dissolved Solids | 146 | mg/L | 10.0 | 03/24/20 14:11 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.2 | mg/L | 1.0 | 03/27/20 10:52 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.51 | mg/L | 0.30 | 03/27/20 10:52 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 9.0 | mg/L | 1.0 | 03/27/20 10:52 | |
| 2630320006 | YGWA-14S | | | | | |
| | Field pH | 5.38 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 1.1 | mg/L | 1.0 | 03/25/20 17:31 | |
| EPA 6020B | Barium | 0.0076J | mg/L | 0.010 | 03/26/20 18:50 | |
| EPA 6020B | Beryllium | 0.00021J | mg/L | 0.0030 | 03/26/20 18:50 | |
| EPA 6020B | Boron | 0.020J | mg/L | 0.10 | 03/26/20 18:50 | |
| SM 2540C | Total Dissolved Solids | 57.0 | mg/L | 10.0 | 03/24/20 14:08 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 5.2 | mg/L | 1.0 | 03/27/20 11:06 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 8.1 | mg/L | 1.0 | 03/27/20 11:06 | |
| 2630320007 | YGWA-30I | | | | | |
| | Field pH | 6.00 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 1.2 | mg/L | 1.0 | 03/26/20 12:39 | |
| EPA 6020B | Barium | 0.0074J | mg/L | 0.010 | 03/26/20 18:55 | |
| EPA 6020B | Boron | 0.0052J | mg/L | 0.10 | 03/26/20 18:55 | |
| EPA 6020B | Cobalt | 0.014 | mg/L | 0.0050 | 03/26/20 18:55 | |
| EPA 6020B | Lithium | 0.0012J | mg/L | 0.030 | 03/26/20 18:55 | |
| SM 2540C | Total Dissolved Solids | 47.0 | mg/L | 10.0 | 03/24/20 14:11 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.8 | mg/L | 1.0 | 03/27/20 11:21 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1.6 | mg/L | 1.0 | 03/27/20 11:21 | |
| 2630320009 | FB-1-3-19-20 | | | | | |
| EPA 6020B | Boron | 0.0050J | mg/L | 0.10 | 03/27/20 16:15 | |
| EPA 6020B | Thallium | 0.000079J | mg/L | 0.0010 | 03/27/20 16:15 | |
| 2630320011 | YGWC-26S | | | | | |
| | Field pH | 5.46 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 13.0 | mg/L | 1.0 | 03/26/20 13:04 | |
| EPA 6020B | Antimony | 0.0017J | mg/L | 0.0030 | 03/27/20 16:43 | B |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|-----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 2630320011 | YGWC-26S | | | | | |
| EPA 6020B | Barium | 0.027 | mg/L | 0.010 | 03/27/20 16:43 | |
| EPA 6020B | Beryllium | 0.00012J | mg/L | 0.0030 | 03/27/20 16:43 | |
| EPA 6020B | Boron | 0.73 | mg/L | 0.10 | 03/27/20 16:43 | |
| EPA 6020B | Chromium | 0.0018J | mg/L | 0.010 | 03/27/20 16:43 | |
| EPA 6020B | Cobalt | 0.0021J | mg/L | 0.0050 | 03/27/20 16:43 | |
| EPA 6020B | Lead | 0.00010J | mg/L | 0.0050 | 03/27/20 16:43 | |
| EPA 6020B | Thallium | 0.000055J | mg/L | 0.0010 | 03/27/20 16:43 | |
| SM 2540C | Total Dissolved Solids | 194 | mg/L | 10.0 | 03/24/20 14:11 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.4 | mg/L | 1.0 | 03/27/20 13:31 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 99.4 | mg/L | 1.0 | 03/27/20 13:31 | |
| 2630320012 | YGWC-26I | | | | | |
| | Field pH | 5.94 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 17.1 | mg/L | 1.0 | 03/26/20 13:14 | |
| EPA 6020B | Antimony | 0.00059J | mg/L | 0.0030 | 03/27/20 16:49 | B |
| EPA 6020B | Barium | 0.063 | mg/L | 0.010 | 03/27/20 16:49 | |
| EPA 6020B | Boron | 0.94 | mg/L | 0.10 | 03/27/20 16:49 | |
| EPA 6020B | Chromium | 0.00090J | mg/L | 0.010 | 03/27/20 16:49 | |
| EPA 6020B | Lead | 0.000059J | mg/L | 0.0050 | 03/27/20 16:49 | |
| EPA 6020B | Lithium | 0.0072J | mg/L | 0.030 | 03/27/20 16:49 | |
| EPA 6020B | Selenium | 0.0019J | mg/L | 0.010 | 03/27/20 16:49 | |
| SM 2540C | Total Dissolved Solids | 211 | mg/L | 10.0 | 03/24/20 14:23 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.7 | mg/L | 1.0 | 03/27/20 13:46 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.060J | mg/L | 0.30 | 03/27/20 13:46 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 84.7 | mg/L | 1.0 | 03/27/20 13:46 | |
| 2630320013 | YGWC-27S | | | | | |
| | Field pH | 6.18 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 42.1 | mg/L | 1.0 | 03/26/20 13:17 | |
| EPA 6020B | Antimony | 0.00030J | mg/L | 0.0030 | 03/27/20 16:55 | B |
| EPA 6020B | Barium | 0.095 | mg/L | 0.010 | 03/27/20 16:55 | |
| EPA 6020B | Boron | 1.4 | mg/L | 0.10 | 03/27/20 16:55 | |
| EPA 6020B | Chromium | 0.00050J | mg/L | 0.010 | 03/27/20 16:55 | |
| EPA 6020B | Cobalt | 0.0022J | mg/L | 0.0050 | 03/27/20 16:55 | |
| EPA 6020B | Lead | 0.000085J | mg/L | 0.0050 | 03/27/20 16:55 | |
| EPA 6020B | Thallium | 0.00011J | mg/L | 0.0010 | 03/27/20 16:55 | |
| SM 2540C | Total Dissolved Solids | 182 | mg/L | 10.0 | 03/24/20 14:23 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.7 | mg/L | 1.0 | 03/27/20 14:00 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.097J | mg/L | 0.30 | 03/27/20 14:00 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 21.1 | mg/L | 1.0 | 03/27/20 14:00 | |
| 2630320014 | YGWC-27I | | | | | |
| | Field pH | 6.32 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 30.3 | mg/L | 1.0 | 03/26/20 13:21 | |
| EPA 6020B | Antimony | 0.00033J | mg/L | 0.0030 | 03/27/20 17:44 | B |
| EPA 6020B | Arsenic | 0.00042J | mg/L | 0.0050 | 03/27/20 17:44 | |
| EPA 6020B | Barium | 0.062 | mg/L | 0.010 | 03/27/20 17:44 | |
| EPA 6020B | Beryllium | 0.00023J | mg/L | 0.0030 | 03/27/20 17:44 | |
| EPA 6020B | Boron | 2.1 | mg/L | 0.10 | 03/27/20 17:44 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|-----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 2630320014 | YGWC-27I | | | | | |
| EPA 6020B | Cobalt | 0.014 | mg/L | 0.0050 | 03/27/20 17:44 | |
| EPA 6020B | Lithium | 0.0091J | mg/L | 0.030 | 03/27/20 17:44 | |
| EPA 6020B | Molybdenum | 0.0014J | mg/L | 0.010 | 03/27/20 17:44 | |
| SM 2540C | Total Dissolved Solids | 195 | mg/L | 10.0 | 03/24/20 14:23 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 13.0 | mg/L | 1.0 | 03/27/20 14:15 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 5.2 | mg/L | 1.0 | 03/27/20 14:15 | |
| 2630320015 | YGWC-28S | | | | | |
| | Field pH | 6.98 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 30.4 | mg/L | 1.0 | 03/26/20 13:24 | |
| EPA 6020B | Arsenic | 0.00051J | mg/L | 0.0050 | 03/27/20 17:50 | |
| EPA 6020B | Barium | 0.20 | mg/L | 0.010 | 03/27/20 17:50 | |
| EPA 6020B | Boron | 2.5 | mg/L | 0.10 | 03/27/20 17:50 | |
| EPA 6020B | Chromium | 0.00049J | mg/L | 0.010 | 03/27/20 17:50 | |
| EPA 6020B | Cobalt | 0.00093J | mg/L | 0.0050 | 03/27/20 17:50 | |
| EPA 6020B | Lead | 0.000075J | mg/L | 0.0050 | 03/27/20 17:50 | |
| SM 2540C | Total Dissolved Solids | 202 | mg/L | 10.0 | 03/24/20 14:12 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 18.1 | mg/L | 1.0 | 03/27/20 14:29 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.16J | mg/L | 0.30 | 03/27/20 14:29 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1.7 | mg/L | 1.0 | 03/27/20 14:29 | |
| 2630320016 | YGWC-28I | | | | | |
| | Field pH | 7.01 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 37.3 | mg/L | 1.0 | 03/26/20 13:28 | |
| EPA 6020B | Barium | 0.089 | mg/L | 0.010 | 03/27/20 17:56 | |
| EPA 6020B | Boron | 2.4 | mg/L | 0.10 | 03/27/20 17:56 | |
| EPA 6020B | Cadmium | 0.00016J | mg/L | 0.0025 | 03/27/20 17:56 | |
| EPA 6020B | Lithium | 0.0070J | mg/L | 0.030 | 03/27/20 17:56 | |
| EPA 6020B | Molybdenum | 0.0014J | mg/L | 0.010 | 03/27/20 17:56 | |
| SM 2540C | Total Dissolved Solids | 212 | mg/L | 10.0 | 03/24/20 14:12 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 16.0 | mg/L | 1.0 | 03/27/20 14:44 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.070J | mg/L | 0.30 | 03/27/20 14:44 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 9.1 | mg/L | 1.0 | 03/27/20 14:44 | |
| 2630320017 | YGWC-29I | | | | | |
| | Field pH | 6.17 | Std. Units | | 03/23/20 09:08 | |
| EPA 6010D | Calcium | 12.7 | mg/L | 1.0 | 03/26/20 13:31 | |
| EPA 6020B | Barium | 0.057 | mg/L | 0.010 | 03/27/20 18:01 | |
| EPA 6020B | Boron | 0.80 | mg/L | 0.10 | 03/27/20 18:01 | |
| EPA 6020B | Cadmium | 0.00022J | mg/L | 0.0025 | 03/27/20 18:01 | |
| EPA 6020B | Lithium | 0.0051J | mg/L | 0.030 | 03/27/20 18:01 | |
| SM 2540C | Total Dissolved Solids | 137 | mg/L | 10.0 | 03/24/20 14:23 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 11.3 | mg/L | 1.0 | 03/27/20 14:58 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.057J | mg/L | 0.30 | 03/27/20 14:58 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 33.0 | mg/L | 1.0 | 03/27/20 14:58 | |
| 2630320018 | EB-2-3-19-20 | | | | | |
| EPA 6020B | Boron | 0.0096J | mg/L | 0.10 | 03/27/20 18:07 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|-----------|-------|--------------|----------------|------------|
| 2630320019 | FB-2-3-19-20 | | | | | |
| EPA 6020B | Boron | 0.0070J | mg/L | 0.10 | 03/27/20 18:13 | |
| 2630320020 | DUP-2 | | | | | |
| EPA 6010D | Calcium | 17.2 | mg/L | 1.0 | 03/26/20 13:42 | |
| EPA 6020B | Barium | 0.062 | mg/L | 0.010 | 03/27/20 18:18 | |
| EPA 6020B | Boron | 0.92 | mg/L | 0.10 | 03/27/20 18:18 | |
| EPA 6020B | Chromium | 0.00093J | mg/L | 0.010 | 03/27/20 18:18 | |
| EPA 6020B | Lead | 0.000071J | mg/L | 0.0050 | 03/27/20 18:18 | |
| EPA 6020B | Lithium | 0.0071J | mg/L | 0.030 | 03/27/20 18:18 | |
| EPA 6020B | Selenium | 0.0022J | mg/L | 0.010 | 03/27/20 18:18 | |
| SM 2540C | Total Dissolved Solids | 178 | mg/L | 10.0 | 03/24/20 14:24 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.0 | mg/L | 1.0 | 03/26/20 16:29 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.071J | mg/L | 0.30 | 03/26/20 16:29 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 83.5 | mg/L | 1.0 | 03/26/20 16:29 | |
| 2630255009 | DUP-1 | | | | | |
| EPA 6010D | Calcium | 1.1 | mg/L | 1.0 | 03/25/20 16:59 | |
| EPA 6020B | Barium | 0.0080J | mg/L | 0.010 | 03/26/20 17:55 | |
| EPA 6020B | Beryllium | 0.00020J | mg/L | 0.0030 | 03/26/20 17:55 | |
| EPA 6020B | Boron | 0.033J | mg/L | 0.10 | 03/26/20 17:55 | |
| EPA 6020B | Selenium | 0.0015J | mg/L | 0.010 | 03/26/20 17:55 | |
| SM 2540C | Total Dissolved Solids | 42.0 | mg/L | 10.0 | 03/23/20 18:14 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 5.4 | mg/L | 1.0 | 03/26/20 17:13 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 9.9 | mg/L | 1.0 | 03/26/20 17:13 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWA-1I | | Lab ID: 2630320001 | | Collected: 03/18/20 15:37 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 6.19 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 2.1 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 18:00 | 03/25/20 17:06 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | 0.00040J | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7440-38-2 | |
| Barium | 0.0084J | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7440-41-7 | |
| Boron | 0.0087J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7440-43-9 | |
| Chromium | 0.00044J | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7440-47-3 | |
| Cobalt | 0.00087J | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7439-92-1 | |
| Lithium | 0.0024J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7439-93-2 | |
| Molybdenum | 0.0056J | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/26/20 18:06 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 35.0 | mg/L | 10.0 | 10.0 | 1 | | 03/23/20 18:14 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 1.4 | mg/L | 1.0 | 0.60 | 1 | | 03/27/20 09:54 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 09:54 | 16984-48-8 | |
| Sulfate | 5.3 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 09:54 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Sample: YGWA-1D | | Lab ID: 2630320002 | | Collected: 03/19/20 10:33 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 7.03 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 15.0 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 18:00 | 03/25/20 17:10 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7440-36-0 | |
| Arsenic | 0.00095J | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7440-38-2 | |
| Barium | 0.0076J | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7440-41-7 | |
| Boron | 0.0085J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7440-43-9 | |
| Chromium | 0.00084J | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7440-48-4 | |
| Lead | 0.00012J | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7439-92-1 | |
| Lithium | 0.013J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7439-93-2 | |
| Molybdenum | 0.0088J | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/26/20 18:12 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 116 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:10 | | |
| 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 | | 03/27/20 10:08 | 16887-00-6 | |
| Fluoride | 0.064J | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 10:08 | 16984-48-8 | |
| Sulfate | 10 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 10:08 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWA-2I | | Lab ID: 2630320003 | | Collected: 03/19/20 12:37 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 7.22 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 27.4 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 18:00 | 03/25/20 17:20 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | 0.00030J | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7440-36-0 | B |
| Arsenic | 0.00066J | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7440-38-2 | |
| Barium | 0.0036J | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7440-41-7 | |
| Boron | 0.0073J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7440-43-9 | |
| Chromium | 0.00048J | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7439-92-1 | |
| Lithium | 0.0022J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7439-93-2 | |
| Molybdenum | 0.0046J | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/26/20 18:18 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 148 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:10 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 0.97J | mg/L | 1.0 | 0.60 | 1 | | 03/27/20 10:23 | 16887-00-6 | |
| Fluoride | 0.093J | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 10:23 | 16984-48-8 | |
| Sulfate | 12.4 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 10:23 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWA-3I | | Lab ID: 2630320004 | | Collected: 03/19/20 11:00 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|---------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 7.31 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 21.9 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 18:00 | 03/25/20 17:24 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7440-38-2 | |
| Barium | 0.0029J | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7440-41-7 | |
| Boron | 0.0053J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7439-92-1 | |
| Lithium | 0.014J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7439-93-2 | |
| Molybdenum | 0.0043J | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/26/20 18:38 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 148 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:10 | | D6 |
| 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 | | 03/27/20 10:37 | 16887-00-6 | |
| Fluoride | 0.11J | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 10:37 | 16984-48-8 | |
| Sulfate | 12.9 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 10:37 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWA-3D | | Lab ID: 2630320005 | | Collected: 03/19/20 12:10 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 7.65 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 31.5 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 18:00 | 03/25/20 17:27 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | 0.00064J | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7440-38-2 | |
| Barium | 0.0072J | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7440-41-7 | |
| Boron | 0.0073J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7440-48-4 | |
| Lead | 0.00017J | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7439-92-1 | |
| Lithium | 0.023J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7439-93-2 | |
| Molybdenum | 0.013 | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/26/20 18:44 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 146 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:11 | | |
| 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 | | 03/27/20 10:52 | 16887-00-6 | |
| Fluoride | 0.51 | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 10:52 | 16984-48-8 | |
| Sulfate | 9.0 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 10:52 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWA-14S | | Lab ID: 2630320006 | | Collected: 03/18/20 15:50 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 5.38 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 1.1 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 18:00 | 03/25/20 17:31 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7440-38-2 | |
| Barium | 0.0076J | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7440-39-3 | |
| Beryllium | 0.00021J | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7440-41-7 | |
| Boron | 0.020J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/26/20 18:50 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 57.0 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:08 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 5.2 | mg/L | 1.0 | 0.60 | 1 | | 03/27/20 11:06 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 11:06 | 16984-48-8 | |
| Sulfate | 8.1 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 11:06 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWA-30I | | Lab ID: 2630320007 | | Collected: 03/19/20 14:20 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|---------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 6.00 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 1.2 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 12:39 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7440-38-2 | |
| Barium | 0.0074J | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7440-41-7 | |
| Boron | 0.0052J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7440-47-3 | |
| Cobalt | 0.014 | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7439-92-1 | |
| Lithium | 0.0012J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/26/20 18:55 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 47.0 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:11 | | |
| 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 | | 03/27/20 11:21 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 11:21 | 16984-48-8 | |
| Sulfate | 1.6 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 11:21 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: EB-1-3-19-20 | | Lab ID: 2630320008 | | Collected: 03/19/20 13:15 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|---------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | ND | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 12:53 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7440-38-2 | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7440-41-7 | |
| Boron | ND | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/26/20 19:07 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:11 | | |
| 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 | | 03/27/20 11:35 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 11:35 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 11:35 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: FB-1-3-19-20 | | Lab ID: 2630320009 | | Collected: 03/19/20 15:15 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|------------------|---------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | ND | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 12:57 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7440-38-2 | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7440-41-7 | |
| Boron | 0.0050J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7782-49-2 | |
| Thallium | 0.000079J | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 16:15 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:11 | | |
| 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 | | 03/27/20 11:50 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 11:50 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 11:50 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWC-26S | | Lab ID: 2630320011 | | Collected: 03/19/20 16:47 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|-----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 5.46 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 13.0 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 13:04 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | 0.0017J | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7440-38-2 | |
| Barium | 0.027 | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7440-39-3 | |
| Beryllium | 0.00012J | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7440-41-7 | |
| Boron | 0.73 | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7440-43-9 | |
| Chromium | 0.0018J | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7440-47-3 | |
| Cobalt | 0.0021J | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7440-48-4 | |
| Lead | 0.00010J | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7782-49-2 | |
| Thallium | 0.000055J | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 16:43 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 194 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:11 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 15.4 | mg/L | 1.0 | 0.60 | 1 | | 03/27/20 13:31 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 13:31 | 16984-48-8 | |
| Sulfate | 99.4 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 13:31 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWC-26I | | Lab ID: 2630320012 | | Collected: 03/20/20 10:47 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 5.94 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 17.1 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 13:14 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | 0.00059J | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7440-38-2 | |
| Barium | 0.063 | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7440-41-7 | |
| Boron | 0.94 | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7440-43-9 | |
| Chromium | 0.00090J | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7440-48-4 | |
| Lead | 0.00059J | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7439-92-1 | |
| Lithium | 0.0072J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7439-98-7 | |
| Selenium | 0.0019J | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 16:49 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 211 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:23 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 17.7 | mg/L | 1.0 | 0.60 | 1 | | 03/27/20 13:46 | 16887-00-6 | |
| Fluoride | 0.060J | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 13:46 | 16984-48-8 | |
| Sulfate | 84.7 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 13:46 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWC-27S | | Lab ID: 2630320013 | | Collected: 03/20/20 12:00 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|-----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 6.18 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 42.1 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 13:17 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | 0.00030J | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7440-38-2 | |
| Barium | 0.095 | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7440-41-7 | |
| Boron | 1.4 | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7440-43-9 | |
| Chromium | 0.00050J | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7440-47-3 | |
| Cobalt | 0.0022J | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7440-48-4 | |
| Lead | 0.000085J | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7782-49-2 | |
| Thallium | 0.00011J | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 16:55 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 182 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:23 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 17.7 | mg/L | 1.0 | 0.60 | 1 | | 03/27/20 14:00 | 16887-00-6 | |
| Fluoride | 0.097J | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 14:00 | 16984-48-8 | |
| Sulfate | 21.1 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 14:00 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWC-271 Lab ID: 2630320014 Collected: 03/20/20 12:05 Received: 03/20/20 14:10 Matrix: Water | | | | | | | | | |
|--|----------|------------|--------------|----------|----|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 6.32 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 30.3 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 13:21 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | 0.00033J | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7440-36-0 | B |
| Arsenic | 0.00042J | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7440-38-2 | |
| Barium | 0.062 | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7440-39-3 | |
| Beryllium | 0.00023J | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7440-41-7 | |
| Boron | 2.1 | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7440-47-3 | |
| Cobalt | 0.014 | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7439-92-1 | |
| Lithium | 0.0091J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7439-93-2 | |
| Molybdenum | 0.0014J | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 17:44 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 195 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:23 | | |
| 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 | | 03/27/20 14:15 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 14:15 | 16984-48-8 | |
| Sulfate | 5.2 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 14:15 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Sample: YGWC-28S | | Lab ID: 2630320015 | | Collected: 03/19/20 14:55 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|-----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 6.98 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 30.4 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 13:24 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7440-36-0 | |
| Arsenic | 0.00051J | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7440-38-2 | |
| Barium | 0.20 | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7440-41-7 | |
| Boron | 2.5 | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7440-43-9 | |
| Chromium | 0.00049J | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7440-47-3 | |
| Cobalt | 0.00093J | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7440-48-4 | |
| Lead | 0.000075J | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 17:50 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 202 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:12 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 18.1 | mg/L | 1.0 | 0.60 | 1 | | 03/27/20 14:29 | 16887-00-6 | |
| Fluoride | 0.16J | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 14:29 | 16984-48-8 | |
| Sulfate | 1.7 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 14:29 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWC-28I | | Lab ID: 2630320016 | | Collected: 03/19/20 16:00 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 7.01 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 37.3 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 13:28 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7440-38-2 | |
| Barium | 0.089 | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7440-41-7 | |
| Boron | 2.4 | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7440-42-8 | |
| Cadmium | 0.00016J | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7439-92-1 | |
| Lithium | 0.0070J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7439-93-2 | |
| Molybdenum | 0.0014J | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 17:56 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 212 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:12 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 16.0 | mg/L | 1.0 | 0.60 | 1 | | 03/27/20 14:44 | 16887-00-6 | |
| Fluoride | 0.070J | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 14:44 | 16984-48-8 | |
| Sulfate | 9.1 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 14:44 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: YGWC-29I | | Lab ID: 2630320017 | | Collected: 03/20/20 10:12 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|----------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Field pH | 6.17 | Std. Units | | | 1 | | 03/23/20 09:08 | | |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | 12.7 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 13:31 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7440-38-2 | |
| Barium | 0.057 | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7440-41-7 | |
| Boron | 0.80 | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7440-42-8 | |
| Cadmium | 0.00022J | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7439-92-1 | |
| Lithium | 0.0051J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 18:01 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | 137 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:23 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 11.3 | mg/L | 1.0 | 0.60 | 1 | | 03/27/20 14:58 | 16887-00-6 | |
| Fluoride | 0.057J | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 14:58 | 16984-48-8 | |
| Sulfate | 33.0 | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 14:58 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: EB-2-3-19-20 | | Lab ID: 2630320018 | | Collected: 03/19/20 13:15 | | Received: 03/20/20 14:10 | | Matrix: Water | |
|--|----------------|--------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Calcium | ND | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 13:35 | 7440-70-2 | |
| 6020B MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7440-38-2 | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7440-41-7 | |
| Boron | 0.0096J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 18:07 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:12 | | |
| 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 | | 03/27/20 15:13 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 03/27/20 15:13 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 03/27/20 15:13 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: FB-2-3-19-20 | | Lab ID: 2630320019 | | Collected: 03/19/20 11:15 | | Received: 03/20/20 14:10 | | Matrix: Water | | |
|-------------------------------------|----------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|-------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | |
| Calcium | ND | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 13:38 | 7440-70-2 | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7440-38-2 | | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7440-41-7 | | |
| Boron | 0.0070J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7440-42-8 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 18:13 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:12 | | | |
| 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 | | 03/26/20 15:46 | 16887-00-6 | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 03/26/20 15:46 | 16984-48-8 | M1,R1 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 03/26/20 15:46 | 14808-79-8 | | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: DUP-2 | | Lab ID: 2630320020 | | Collected: 03/20/20 00:00 | | Received: 03/20/20 14:10 | | Matrix: Water | | |
|-------------------------------------|------------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | |
| Calcium | 17.2 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 19:40 | 03/26/20 13:42 | 7440-70-2 | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7440-38-2 | | |
| Barium | 0.062 | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7440-41-7 | | |
| Boron | 0.92 | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7440-42-8 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7440-43-9 | | |
| Chromium | 0.00093J | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7440-48-4 | | |
| Lead | 0.000071J | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7439-92-1 | | |
| Lithium | 0.0071J | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7439-98-7 | | |
| Selenium | 0.0022J | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/27/20 18:18 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | |
| Total Dissolved Solids | 178 | mg/L | 10.0 | 10.0 | 1 | | 03/24/20 14:24 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 17.0 | mg/L | 1.0 | 0.60 | 1 | | 03/26/20 16:29 | 16887-00-6 | | |
| Fluoride | 0.071J | mg/L | 0.30 | 0.050 | 1 | | 03/26/20 16:29 | 16984-48-8 | | |
| Sulfate | 83.5 | mg/L | 1.0 | 0.50 | 1 | | 03/26/20 16:29 | 14808-79-8 | | |

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| Sample: DUP-1 | | Lab ID: 2630255009 | | Collected: 03/18/20 00:00 | | Received: 03/20/20 14:10 | | Matrix: Water | | |
|-------------------------------------|----------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA | | | | | | | | |
| Calcium | 1.1 | mg/L | 1.0 | 0.14 | 1 | 03/24/20 18:00 | 03/25/20 16:59 | 7440-70-2 | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7440-38-2 | | |
| Barium | 0.0080J | mg/L | 0.010 | 0.00049 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7440-39-3 | | |
| Beryllium | 0.00020J | mg/L | 0.0030 | 0.000074 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7440-41-7 | | |
| Boron | 0.033J | mg/L | 0.10 | 0.0049 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7440-42-8 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7439-98-7 | | |
| Selenium | 0.0015J | mg/L | 0.010 | 0.0013 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 03/24/20 19:40 | 03/26/20 17:55 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA | | | | | | | | |
| Total Dissolved Solids | 42.0 | mg/L | 10.0 | 10.0 | 1 | | 03/23/20 18:14 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 5.4 | mg/L | 1.0 | 0.60 | 1 | | 03/26/20 17:13 | 16887-00-6 | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 03/26/20 17:13 | 16984-48-8 | | |
| Sulfate | 9.9 | mg/L | 1.0 | 0.50 | 1 | | 03/26/20 17:13 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

QC Batch: 44881 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Atlanta, GA
Associated Lab Samples: 2630255009, 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006

METHOD BLANK: 206477 Matrix: Water
Associated Lab Samples: 2630255009, 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.14 | 03/25/20 16:05 | |

LABORATORY CONTROL SAMPLE: 206478

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206479 206480

| Parameter | Units | 2630257002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Calcium | mg/L | 31.9 | 1 | 1 | 33.2 | 33.9 | 123 | 195 | 75-125 | 2 | 20 | M1 |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 44895 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D MET |
| | | Laboratory: | Pace Analytical Services - Atlanta, GA |

Associated Lab Samples: 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

METHOD BLANK: 206546 Matrix: Water

Associated Lab Samples: 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.14 | 03/26/20 12:32 | |

LABORATORY CONTROL SAMPLE: 206547

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 1.1 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206548 206549

| Parameter | Units | 2630320007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Calcium | mg/L | 1.2 | 1 | 1 | 2.3 | 2.3 | 105 | 102 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 44893 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020B MET |
| | | Laboratory: | Pace Analytical Services - Atlanta, GA |

Associated Lab Samples: 2630255009, 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008

METHOD BLANK: 206538 Matrix: Water
Associated Lab Samples: 2630255009, 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | 0.00031J | 0.0030 | 0.00027 | 03/26/20 16:09 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 03/26/20 16:09 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 03/26/20 16:09 | |
| Beryllium | mg/L | ND | 0.0030 | 0.000074 | 03/26/20 16:09 | |
| Boron | mg/L | ND | 0.10 | 0.0049 | 03/26/20 16:09 | |
| Cadmium | mg/L | ND | 0.0025 | 0.00011 | 03/26/20 16:09 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 03/26/20 16:09 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 03/26/20 16:09 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 03/26/20 16:09 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 03/26/20 16:09 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 03/26/20 16:09 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 03/26/20 16:09 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 03/26/20 16:09 | |

LABORATORY CONTROL SAMPLE: 206539

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 114 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 110 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206540 206541

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 2630257002 | Spike Conc. | Spike Conc. | MS Result | | | | | | |
| Antimony | mg/L | 0.00042J | 0.1 | 0.1 | 0.11 | 0.11 | 111 | 108 | 75-125 | 3 | 20 |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Parameter | Units | 206540 | | 206541 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | RPD | Qual |
|------------|-------|----------------------|-----------------------|--------------|---------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.099 | 99 | 99 | 75-125 | 0 | 20 | | |
| Barium | mg/L | 0.099 | 0.1 | 0.1 | 0.20 | 0.19 | 102 | 95 | 75-125 | 3 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.093 | 0.096 | 93 | 96 | 75-125 | 3 | 20 | | |
| Boron | mg/L | 0.61 | 1 | 1 | 1.6 | 1.6 | 97 | 98 | 75-125 | 0 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.096 | 99 | 96 | 75-125 | 3 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 104 | 75-125 | 0 | 20 | | |
| Cobalt | mg/L | 0.0040J | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | | |
| Lead | mg/L | 0.00010J | 0.1 | 0.1 | 0.095 | 0.095 | 95 | 95 | 75-125 | 0 | 20 | | |
| Lithium | mg/L | 0.013J | 0.1 | 0.1 | 0.11 | 0.11 | 94 | 97 | 75-125 | 3 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.098 | 97 | 97 | 75-125 | 0 | 20 | | |
| Thallium | mg/L | 0.000080J | 0.1 | 0.1 | 0.096 | 0.095 | 95 | 95 | 75-125 | 0 | 20 | | |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 44894 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020B MET |
| | | Laboratory: | Pace Analytical Services - Atlanta, GA |

Associated Lab Samples: 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

METHOD BLANK: 206542 Matrix: Water
Associated Lab Samples: 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | 0.00034J | 0.0030 | 0.00027 | 03/27/20 16:03 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 03/27/20 16:03 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 03/27/20 16:03 | |
| Beryllium | mg/L | ND | 0.0030 | 0.000074 | 03/27/20 16:03 | |
| Boron | mg/L | ND | 0.10 | 0.0049 | 03/27/20 16:03 | |
| Cadmium | mg/L | ND | 0.0025 | 0.00011 | 03/27/20 16:03 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 03/27/20 16:03 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 03/27/20 16:03 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 03/27/20 16:03 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 03/27/20 16:03 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 03/27/20 16:03 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 03/27/20 16:03 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 03/27/20 16:03 | |

LABORATORY CONTROL SAMPLE: 206543

| 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 | 0.099 | 99 | 80-120 | |
| Barium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 106 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Lead | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206544 206545

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|
| | | 2630320010 | Spike Conc. | Spike Conc. | Result | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 109 | 112 | 75-125 | 3 | 20 |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Parameter | Units | 206544 | | | 206545 | | | % Rec | % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|------------|-------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-------|--------|-------|--------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.11 | 102 | 105 | 75-125 | 3 | 20 | | | |
| Barium | mg/L | 0.041 | 0.1 | 0.1 | 0.14 | 0.14 | 103 | 104 | 75-125 | 1 | 20 | | | |
| Beryllium | mg/L | 0.00083J | 0.1 | 0.1 | 0.10 | 0.10 | 99 | 100 | 75-125 | 1 | 20 | | | |
| Boron | mg/L | 5.3 | 1 | 1 | 6.5 | 6.3 | 117 | 105 | 75-125 | 2 | 20 | | | |
| Cadmium | mg/L | 0.00013J | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 103 | 75-125 | 3 | 20 | | | |
| Chromium | mg/L | 0.00040J | 0.1 | 0.1 | 0.11 | 0.11 | 106 | 109 | 75-125 | 3 | 20 | | | |
| Cobalt | mg/L | 0.0031J | 0.1 | 0.1 | 0.11 | 0.11 | 103 | 103 | 75-125 | 0 | 20 | | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 75-125 | 3 | 20 | | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 103 | 75-125 | 2 | 20 | | | |
| Molybdenum | mg/L | | 0.1 | 0.1 | 0.10 | 0.11 | 103 | 107 | 75-125 | 4 | 20 | | | |
| Selenium | mg/L | 0.0042J | 0.1 | 0.1 | 0.11 | 0.11 | 103 | 104 | 75-125 | 1 | 20 | | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.098 | 97 | 98 | 75-125 | 1 | 20 | | | |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

| | |
|---------------------------|--|
| QC Batch: 44831 | Analysis Method: SM 2540C |
| QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids |
| | Laboratory: Pace Analytical Services - Atlanta, GA |

Associated Lab Samples: 2630255009, 2630320001

LABORATORY CONTROL SAMPLE: 206292

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 363 | 91 | 84-108 | |

SAMPLE DUPLICATE: 206293

| Parameter | Units | 2630255001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 185 | 199 | 7 | 10 | |

SAMPLE DUPLICATE: 206294

| Parameter | Units | 2630257006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 141 | 146 | 3 | 10 | |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| | | | |
|------------------|----------|-----------------------|--|
| QC Batch: | 44875 | Analysis Method: | SM 2540C |
| QC Batch Method: | SM 2540C | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Atlanta, GA |

Associated Lab Samples: 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320015, 2630320016, 2630320018, 2630320019

LABORATORY CONTROL SAMPLE: 206450

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 399 | 100 | 84-108 | |

SAMPLE DUPLICATE: 206451

| Parameter | Units | 2630320006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 57.0 | 63.0 | 10 | 10 | |

SAMPLE DUPLICATE: 206452

| Parameter | Units | 2630320004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 148 | 122 | 19 | 10 | D6 |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

QC Batch: 532325 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: 2630255009, 2630320019, 2630320020

METHOD BLANK: 2841784 Matrix: Water
Associated Lab Samples: 2630255009, 2630320019, 2630320020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 03/26/20 15:03 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 03/26/20 15:03 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 03/26/20 15:03 | |

LABORATORY CONTROL SAMPLE: 2841785

| 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 | 2.4 | 97 | 90-110 | |
| Sulfate | mg/L | 50 | 51.0 | 102 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841786 2841787

| Parameter | Units | 2630320019 | | 2841786 | | 2841787 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|------------|----------------|-----------------|-----------|------------|----------|-------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | | | | | | |
| Chloride | mg/L | ND | 50 | 50 | 50.0 | 50.9 | 100 | 102 | 90-110 | 2 | 10 | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 3.2 | 2.8 | 129 | 112 | 90-110 | 14 | 10 | M1, R1 | |
| Sulfate | mg/L | ND | 50 | 50 | 53.4 | 53.7 | 107 | 107 | 90-110 | 1 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841788 2841789

| Parameter | Units | 92470768004 | | 2841788 | | 2841789 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | | | | | | |
| Chloride | mg/L | 5.0 | 50 | 50 | 54.7 | 54.8 | 99 | 100 | 90-110 | 0 | 10 | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 3.2 | 3.0 | 127 | 119 | 90-110 | 6 | 10 | M1 | |
| Sulfate | mg/L | 13.7 | 50 | 50 | 64.7 | 64.5 | 102 | 102 | 90-110 | 0 | 10 | | |

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

QC Batch: 532327 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: 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018

METHOD BLANK: 2841796 Matrix: Water
Associated Lab Samples: 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 03/27/20 07:43 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 03/27/20 07:43 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 03/27/20 07:43 | |

LABORATORY CONTROL SAMPLE: 2841797

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 50.9 | 102 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.7 | 109 | 90-110 | |
| Sulfate | mg/L | 50 | 54.0 | 108 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841798 2841799

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|
| | | 2630325019 Result | Spike Conc. | Spike Conc. | Result | | | | | | |
| Chloride | mg/L | ND | 50 | 50 | 51.3 | 50.9 | 103 | 102 | 90-110 | 1 | 10 |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.7 | 2.7 | 110 | 109 | 90-110 | 0 | 10 |
| Sulfate | mg/L | ND | 50 | 50 | 54.7 | 54.1 | 109 | 108 | 90-110 | 1 | 10 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841800 2841801

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
| | | 2630320010 Result | Spike Conc. | Spike Conc. | Result | | | | | | |
| Chloride | mg/L | 239 | 50 | 50 | 279 | 266 | 80 | 54 | 90-110 | 5 | 10 M6 |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.5 | 2.6 | 101 | 101 | 90-110 | 1 | 10 |
| Sulfate | mg/L | 199 | 50 | 50 | 245 | 234 | 92 | 70 | 90-110 | 5 | 10 M6 |

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: PLANT YATES AP-2

Pace Project No.: 2630320

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.

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.

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.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|--------------|-----------------|----------|-------------------|------------------|
| 2630320001 | YGWA-1I | | | | |
| 2630320002 | YGWA-1D | | | | |
| 2630320003 | YGWA-2I | | | | |
| 2630320004 | YGWA-3I | | | | |
| 2630320005 | YGWA-3D | | | | |
| 2630320006 | YGWA-14S | | | | |
| 2630320007 | YGWA-30I | | | | |
| 2630320011 | YGWC-26S | | | | |
| 2630320012 | YGWC-26I | | | | |
| 2630320013 | YGWC-27S | | | | |
| 2630320014 | YGWC-27I | | | | |
| 2630320015 | YGWC-28S | | | | |
| 2630320016 | YGWC-28I | | | | |
| 2630320017 | YGWC-29I | | | | |
| 2630255009 | DUP-1 | EPA 3010A | 44881 | EPA 6010D | 44898 |
| 2630320001 | YGWA-1I | EPA 3010A | 44881 | EPA 6010D | 44898 |
| 2630320002 | YGWA-1D | EPA 3010A | 44881 | EPA 6010D | 44898 |
| 2630320003 | YGWA-2I | EPA 3010A | 44881 | EPA 6010D | 44898 |
| 2630320004 | YGWA-3I | EPA 3010A | 44881 | EPA 6010D | 44898 |
| 2630320005 | YGWA-3D | EPA 3010A | 44881 | EPA 6010D | 44898 |
| 2630320006 | YGWA-14S | EPA 3010A | 44881 | EPA 6010D | 44898 |
| 2630320007 | YGWA-30I | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320008 | EB-1-3-19-20 | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320009 | FB-1-3-19-20 | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320011 | YGWC-26S | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320012 | YGWC-26I | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320013 | YGWC-27S | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320014 | YGWC-27I | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320015 | YGWC-28S | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320016 | YGWC-28I | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320017 | YGWC-29I | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320018 | EB-2-3-19-20 | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320019 | FB-2-3-19-20 | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630320020 | DUP-2 | EPA 3010A | 44895 | EPA 6010D | 44902 |
| 2630255009 | DUP-1 | EPA 3005A | 44893 | EPA 6020B | 44900 |
| 2630320001 | YGWA-1I | EPA 3005A | 44893 | EPA 6020B | 44900 |
| 2630320002 | YGWA-1D | EPA 3005A | 44893 | EPA 6020B | 44900 |
| 2630320003 | YGWA-2I | EPA 3005A | 44893 | EPA 6020B | 44900 |
| 2630320004 | YGWA-3I | EPA 3005A | 44893 | EPA 6020B | 44900 |
| 2630320005 | YGWA-3D | EPA 3005A | 44893 | EPA 6020B | 44900 |
| 2630320006 | YGWA-14S | EPA 3005A | 44893 | EPA 6020B | 44900 |
| 2630320007 | YGWA-30I | EPA 3005A | 44893 | EPA 6020B | 44900 |
| 2630320008 | EB-1-3-19-20 | EPA 3005A | 44893 | EPA 6020B | 44900 |
| 2630320009 | FB-1-3-19-20 | EPA 3005A | 44894 | EPA 6020B | 44901 |
| 2630320011 | YGWC-26S | EPA 3005A | 44894 | EPA 6020B | 44901 |
| 2630320012 | YGWC-26I | EPA 3005A | 44894 | EPA 6020B | 44901 |
| 2630320013 | YGWC-27S | EPA 3005A | 44894 | EPA 6020B | 44901 |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|--------------|------------------------|----------|-------------------|------------------|
| 2630320014 | YGWC-27I | EPA 3005A | 44894 | EPA 6020B | 44901 |
| 2630320015 | YGWC-28S | EPA 3005A | 44894 | EPA 6020B | 44901 |
| 2630320016 | YGWC-28I | EPA 3005A | 44894 | EPA 6020B | 44901 |
| 2630320017 | YGWC-29I | EPA 3005A | 44894 | EPA 6020B | 44901 |
| 2630320018 | EB-2-3-19-20 | EPA 3005A | 44894 | EPA 6020B | 44901 |
| 2630320019 | FB-2-3-19-20 | EPA 3005A | 44894 | EPA 6020B | 44901 |
| 2630320020 | DUP-2 | EPA 3005A | 44894 | EPA 6020B | 44901 |
| 2630255009 | DUP-1 | SM 2540C | 44831 | | |
| 2630320001 | YGWA-1I | SM 2540C | 44831 | | |
| 2630320002 | YGWA-1D | SM 2540C | 44875 | | |
| 2630320003 | YGWA-2I | SM 2540C | 44875 | | |
| 2630320004 | YGWA-3I | SM 2540C | 44875 | | |
| 2630320005 | YGWA-3D | SM 2540C | 44875 | | |
| 2630320006 | YGWA-14S | SM 2540C | 44875 | | |
| 2630320007 | YGWA-30I | SM 2540C | 44875 | | |
| 2630320008 | EB-1-3-19-20 | SM 2540C | 44875 | | |
| 2630320009 | FB-1-3-19-20 | SM 2540C | 44875 | | |
| 2630320011 | YGWC-26S | SM 2540C | 44875 | | |
| 2630320012 | YGWC-26I | SM 2540C | 44876 | | |
| 2630320013 | YGWC-27S | SM 2540C | 44876 | | |
| 2630320014 | YGWC-27I | SM 2540C | 44876 | | |
| 2630320015 | YGWC-28S | SM 2540C | 44875 | | |
| 2630320016 | YGWC-28I | SM 2540C | 44875 | | |
| 2630320017 | YGWC-29I | SM 2540C | 44876 | | |
| 2630320018 | EB-2-3-19-20 | SM 2540C | 44875 | | |
| 2630320019 | FB-2-3-19-20 | SM 2540C | 44875 | | |
| 2630320020 | DUP-2 | SM 2540C | 44876 | | |
| 2630255009 | DUP-1 | EPA 300.0 Rev 2.1 1993 | 532325 | | |
| 2630320001 | YGWA-1I | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320002 | YGWA-1D | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320003 | YGWA-2I | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320004 | YGWA-3I | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320005 | YGWA-3D | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320006 | YGWA-14S | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320007 | YGWA-30I | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320008 | EB-1-3-19-20 | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320009 | FB-1-3-19-20 | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320011 | YGWC-26S | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320012 | YGWC-26I | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320013 | YGWC-27S | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320014 | YGWC-27I | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320015 | YGWC-28S | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320016 | YGWC-28I | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320017 | YGWC-29I | EPA 300.0 Rev 2.1 1993 | 532327 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES AP-2

Pace Project No.: 2630320

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|--------------|------------------------|----------|-------------------|------------------|
| 2630320018 | EB-2-3-19-20 | EPA 300.0 Rev 2.1 1993 | 532327 | | |
| 2630320019 | FB-2-3-19-20 | EPA 300.0 Rev 2.1 1993 | 532325 | | |
| 2630320020 | DUP-2 | EPA 300.0 Rev 2.1 1993 | 532325 | | |

REPORT OF LABORATORY ANALYSIS

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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: GA Power Address: Atlanta, GA | | Section B Required Project Information: Report To: SCS Contacts Copy To: ACC Contacts | | Section C Invoice Information: Attention: Southern Co. Company Name: Address: P.O. Box: Reference: P.O. Project: Manager: P.O. Profile #: 2916-15 | |
| Email To: SCS Contacts Fax: Phone: Requested Due Date/TAT: 10 Day | | Purchase Order No.: Project Name: Plant Yates AP2 Project Number: | | P.O. Guide: P.O. Project: Kevin Herring P.O. Profile #: 2916-15 | |
| REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/> | | | Site Location: GA STATE: | | |

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Analysis Test | Requested Analyte Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|--|--|-----------------------------|-----------|------|---------------------------|-----------------|---------------|------|-------------|--------------------------------|------------------|-----|------|---------------|----------------------------------|-------------------------|----------------------------|
| | | | | DATE | TIME | | | DATE | TIME | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | | | | |
| 1 | Y6WC-265 | WT G | G | 3-15-20 | 1647 | | 2 | | | | | | | | | | Extra Rod pH= 5.46 | |
| 2 | Y6WC-265 | WT G | G | 3-20-20 | 1047 | | 3 | | | | | | | | | | pH= 5.44 | |
| 3 | Y6WC-275 | WT G | G | 3-20-20 | 1200 | | 3 | | | | | | | | | | pH= 6.18 | |
| 4 | Y6WC-275 | WT G | G | 3-20-20 | 1205 | | 3 | | | | | | | | | | pH= 6.32 | |
| 5 | Y6WC-285 | WT G | G | 3-19-20 | 1455 | | 3 | | | | | | | | | | pH= 6.98 | |
| 6 | Y6WC-285 | WT G | G | 3-19-20 | 1600 | | 3 | | | | | | | | | | pH= 7.01 | |
| 7 | Y6WC-295 | WT G | G | 3-20-20 | 1012 | | 3 | | | | | | | | | | pH= 6.17 | |
| 8 | ER-2-3-19-20 | WT G | G | 3-19-20 | 1315 | | 3 | | | | | | | | | | pH= | |
| 9 | ER-2-3-19-20 | WT G | G | 3-16-20 | 1115 | | 3 | | | | | | | | | | pH= | |
| 10 | Dup-2 | WT G | G | 3-20-20 | - | | 3 | | | | | | | | | | pH= | |
| 11 | | | | | | | 3 | | | | | | | | | | | |
| 12 | | | | | | | 3 | | | | | | | | | | | |

Additional Comments: **REINQUISHED BY / AFFILIATION** ACC 3-20-20 **DATE** 4/10 **TIME** 11:10 **ACCEPTED BY / AFFILIATION** Trace **DATE** 3/20/20 **TIME** 11:10

Temp in °C: _____
 Received on Ice (Y/N):
 Custody Sealed Cooler (Y/N):
 Samples Intact (Y/N):

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Dyan Walker
 SIGNATURE of SAMPLER: *Dyan Walker*
 DATE Signed (MM/DD/YY): _____

F-ALL-Q-020rev.07, 15-Feb-2007

MO# : 2630320
 PM: KH
 Due Date: 04/03/20
 CLIENT: 26-GA Power

Sample Condition Upon Receipt

Face Analytical

Client Name: Brewer

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no

Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other Plastic Bag

Type of Ice: Ice Blue None Other

Thermometer Used: TH8233

Cooler Temperature: 0.1

Temp should be above freezing to 6°C

Chain of Custody Present: Yes No N/A

Chain of Custody Filled Out: Yes No N/A

Chain of Custody Relinquished: Yes No N/A

Sampler Name & Signature on COC: Yes No N/A

Samples Arrived within Hold Time: Yes No N/A

Short Hold Time Analysis (<72hr): Yes No N/A

Rush Turn Around Time Requested: Yes No N/A W Day

Sufficient Volume: Yes No N/A

Correct Containers Used: Yes No N/A

-Pace Containers Used: Yes No N/A

Containers Intact: Yes No N/A

Filtered volume received for Dissolved tests: Yes No N/A

Sample Labels match COC: Yes No N/A

-Includes date/time/ID/Analysis Matrix: Yes No N/A

All containers needing preservation have been checked: Yes No N/A

All containers needing preservation are found to be in compliance with EPA recommendation: Yes No N/A

exceptions: VOA, colform, TOC, O&G, Wf-DRO (water): Yes No N/A

Samples checked for dechlorination: Yes No N/A

Headspace in VOA Vials (>6mm): Yes No N/A

Trip Blank Present: Yes No N/A

Trip Blank Custody Seals Present: Yes No N/A

Pace Trip Blank Lot # (if purchased): _____

| | | |
|-----|--|---|
| 1. | Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 2. | Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 3. | Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 4. | Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 5. | Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 6. | Short Hold Time Analysis (<72hr): | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 7. | Rush Turn Around Time Requested: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <u>W Day</u> |
| 8. | Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 9. | Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 10. | -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 11. | Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 12. | Filtered volume received for Dissolved tests: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 13. | Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 14. | -Includes date/time/ID/Analysis Matrix: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 15. | All containers needing preservation have been checked: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 16. | All containers needing preservation are found to be in compliance with EPA recommendation: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 17. | exceptions: VOA, colform, TOC, O&G, Wf-DRO (water): | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 18. | Samples checked for dechlorination: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 19. | Headspace in VOA Vials (>6mm): | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 20. | Trip Blank Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 21. | Trip Blank Custody Seals Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 22. | Pace Trip Blank Lot # (if purchased): | _____ |

Initial when completed: _____
 Lot # of added preservative: _____

Biological Tissue is Frozen: Yes No
 Comments: _____

Samples on ice, cooling process has begun
 Date and initials of person examining contents: _____

Proj. Name: _____
 Proj. Due Date: _____

Client Notification/Resolution: _____

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____

Date: _____

Field Data Required? Y / N

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)

May 05, 2020

Mr. Joju Abraham
Georgia Power
2480 Maner Road
Atlanta, GA 30339

RE: Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

Dear Mr. Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

Revision 1 - This report replaces the April 13, 2020 report. This project was revised on May 5, 2020 in order to cancel a sample as per client request. (Greensburg, PA)

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

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

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: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|--------------|--------|----------------|----------------|
| 2630320001 | YGWA-1I | Water | 03/18/20 15:37 | 03/24/20 09:10 |
| 2630320002 | YGWA-1D | Water | 03/19/20 10:33 | 03/24/20 09:10 |
| 2630320003 | YGWA-2I | Water | 03/19/20 12:37 | 03/24/20 09:10 |
| 2630320004 | YGWA-3I | Water | 03/19/20 11:00 | 03/24/20 09:10 |
| 2630320005 | YGWA-3D | Water | 03/19/20 12:10 | 03/24/20 09:10 |
| 2630320006 | YGWA-14S | Water | 03/18/20 15:50 | 03/24/20 09:10 |
| 2630320007 | YGWA-30I | Water | 03/19/20 14:20 | 03/24/20 09:10 |
| 2630320008 | EB-1-3-19-20 | Water | 03/19/20 13:15 | 03/24/20 09:10 |
| 2630320009 | FB-1-3-19-20 | Water | 03/19/20 15:15 | 03/24/20 09:10 |
| 2630320011 | YGWC-26S | Water | 03/19/20 16:47 | 03/24/20 09:10 |
| 2630320012 | YGWC-26I | Water | 03/20/20 10:47 | 03/24/20 09:10 |
| 2630320013 | YGWC-27S | Water | 03/20/20 12:00 | 03/24/20 09:10 |
| 2630320014 | YGWC-27I | Water | 03/20/20 12:05 | 03/24/20 09:10 |
| 2630320015 | YGWC-28S | Water | 03/19/20 14:55 | 03/24/20 09:10 |
| 2630320016 | YGWC-28I | Water | 03/19/20 16:00 | 03/24/20 09:10 |
| 2630320017 | YGWC-29I | Water | 03/20/20 10:12 | 03/24/20 09:10 |
| 2630320018 | EB-2-3-19-20 | Water | 03/19/20 13:15 | 03/24/20 09:10 |
| 2630320019 | FB-2-3-19-20 | Water | 03/19/20 11:15 | 03/24/20 09:10 |
| 2630320020 | DUP-2 | Water | 03/20/20 00:00 | 03/24/20 09:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|--------------|--------------------------|----------|-------------------|------------|
| 2630320001 | YGWA-1I | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320002 | YGWA-1D | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320003 | YGWA-2I | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320004 | YGWA-3I | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320005 | YGWA-3D | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320006 | YGWA-14S | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320007 | YGWA-30I | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320008 | EB-1-3-19-20 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320009 | FB-1-3-19-20 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320011 | YGWC-26S | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320012 | YGWC-26I | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320013 | YGWC-27S | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320014 | YGWC-27I | EPA 9315 | LAL | 1 | PASI-PA |

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SAMPLE ANALYTE COUNT

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|--------------|--------------------------|----------|-------------------|------------|
| 2630320015 | YGWC-28S | 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 |
| 2630320016 | YGWC-28I | Total Radium Calculation | CMC | 1 | PASI-PA |
| | | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320017 | YGWC-29I | 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 |
| 2630320018 | EB-2-3-19-20 | 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 |
| 2630320019 | FB-2-3-19-20 | Total Radium Calculation | CMC | 1 | PASI-PA |
| | | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2630320020 | DUP-2 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

| Sample: YGWA-1I | | Lab ID: 2630320001 | Collected: 03/18/20 15:37 | Received: 03/24/20 09:10 | 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 | 0.458 ± 0.189 (0.249) C:82% T:NA | pCi/L | 03/31/20 20:48 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | -0.0547 ± 0.373 (0.880) C:67% T:81% | pCi/L | 04/10/20 12:40 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.458 ± 0.562 (1.13) | pCi/L | 04/13/20 09:59 | 7440-14-4 | |

| Sample: YGWA-1D | | Lab ID: 2630320002 | Collected: 03/19/20 10:33 | Received: 03/24/20 09:10 | 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 | 0.806 ± 0.247 (0.246) C:83% T:NA | pCi/L | 03/31/20 17:54 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.298 ± 0.337 (0.706) C:69% T:92% | pCi/L | 04/10/20 12:40 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.10 ± 0.584 (0.952) | pCi/L | 04/13/20 09:59 | 7440-14-4 | |

| Sample: YGWA-2I | | Lab ID: 2630320003 | Collected: 03/19/20 12:37 | Received: 03/24/20 09:10 | 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 | 0.376 ± 0.212 (0.355) C:72% T:NA | pCi/L | 03/31/20 20:48 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.339 ± 0.375 (0.786) C:69% T:90% | pCi/L | 04/10/20 12:40 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.715 ± 0.587 (1.14) | pCi/L | 04/13/20 09:59 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

| Sample: YGWA-3I | | Lab ID: 2630320004 | Collected: 03/19/20 11:00 | Received: 03/24/20 09:10 | 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 | 1.58 ± 0.522 (0.389) C:83% T:NA | | pCi/L | 04/01/20 08:16 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | 0.620 ± 0.400 (0.763) C:69% T:90% | | pCi/L | 04/10/20 12:40 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Total Radium | Total Radium Calculation | 2.20 ± 0.922 (1.15) | | pCi/L | 04/13/20 09:59 | 7440-14-4 | |

| Sample: YGWA-3D | | Lab ID: 2630320005 | Collected: 03/19/20 12:10 | Received: 03/24/20 09:10 | 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 | 2.10 ± 0.603 (0.282) C:84% T:NA | | pCi/L | 04/01/20 08:17 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | 1.86 ± 0.608 (0.838) C:69% T:83% | | pCi/L | 04/10/20 12:41 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Total Radium | Total Radium Calculation | 3.96 ± 1.21 (1.12) | | pCi/L | 04/13/20 09:59 | 7440-14-4 | |

| Sample: YGWA-14S | | Lab ID: 2630320006 | Collected: 03/18/20 15:50 | Received: 03/24/20 09:10 | 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 | 0.207 ± 0.201 (0.349) C:85% T:NA | | pCi/L | 04/01/20 08:03 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | -0.0581 ± 0.332 (0.784) C:70% T:91% | | pCi/L | 04/10/20 12:41 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Total Radium | Total Radium Calculation | 0.207 ± 0.533 (1.13) | | pCi/L | 04/13/20 09:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

| Sample: YGWA-301 | | Lab ID: 2630320007 | Collected: 03/19/20 14:20 | Received: 03/24/20 09:10 | 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 | 0.328 ± 0.151 (0.193) C:93% T:NA | | pCi/L | 03/31/20 17:55 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | 0.672 ± 0.399 (0.740) C:67% T:95% | | pCi/L | 04/10/20 12:41 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Total Radium | Total Radium Calculation | 1.000 ± 0.550 (0.933) | | pCi/L | 04/13/20 09:59 | 7440-14-4 | |

| Sample: EB-1-3-19-20 | | Lab ID: 2630320008 | Collected: 03/19/20 13:15 | Received: 03/24/20 09:10 | 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 | 0.311 ± 0.236 (0.354) C:86% T:NA | | pCi/L | 04/01/20 08:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | 0.134 ± 0.397 (0.892) C:71% T:68% | | pCi/L | 04/10/20 12:41 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Total Radium | Total Radium Calculation | 0.445 ± 0.633 (1.25) | | pCi/L | 04/13/20 09:59 | 7440-14-4 | |

| Sample: FB-1-3-19-20 | | Lab ID: 2630320009 | Collected: 03/19/20 15:15 | Received: 03/24/20 09:10 | 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 | 0.286 ± 0.308 (0.632) C:91% T:NA | | pCi/L | 04/01/20 08:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | 0.251 ± 0.383 (0.827) C:67% T:77% | | pCi/L | 04/10/20 12:41 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Total Radium | Total Radium Calculation | 0.537 ± 0.691 (1.46) | | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

| Sample: YGWC-26S | | Lab ID: 2630320011 | Collected: 03/19/20 16:47 | Received: 03/24/20 09:10 | 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 | 0.437 ± 0.346 (0.615) | | pCi/L | 04/01/20 08:09 | 13982-63-3 | |
| | | C:68% T:NA | | | | | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | 0.359 ± 0.391 (0.817) | | pCi/L | 04/10/20 12:41 | 15262-20-1 | |
| | | C:69% T:80% | | | | | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Total Radium | Total Radium Calculation | 0.796 ± 0.737 (1.43) | | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

| Sample: YGWC-26I | | Lab ID: 2630320012 | Collected: 03/20/20 10:47 | Received: 03/24/20 09:10 | 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 | 0.574 ± 0.386 (0.653) | | pCi/L | 04/01/20 08:09 | 13982-63-3 | |
| | | C:73% T:NA | | | | | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | 1.46 ± 0.534 (0.759) | | pCi/L | 04/10/20 12:41 | 15262-20-1 | |
| | | C:68% T:77% | | | | | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Total Radium | Total Radium Calculation | 2.03 ± 0.920 (1.41) | | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

| Sample: YGWC-27S | | Lab ID: 2630320013 | Collected: 03/20/20 12:00 | Received: 03/24/20 09:10 | 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 | 0.517 ± 0.309 (0.452) | | pCi/L | 04/01/20 08:09 | 13982-63-3 | |
| | | C:88% T:NA | | | | | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | 0.983 ± 0.411 (0.623) | | pCi/L | 04/10/20 12:42 | 15262-20-1 | |
| | | C:69% T:82% | | | | | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Total Radium | Total Radium Calculation | 1.50 ± 0.720 (1.08) | | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

| Sample: YGWC-271 | | Lab ID: 2630320014 | Collected: 03/20/20 12:05 | Received: 03/24/20 09:10 | 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 | 3.48 ± 0.907 (0.698) C:72% T:NA | pCi/L | 04/01/20 08:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.654 ± 0.397 (0.725) C:67% T:81% | pCi/L | 04/10/20 12:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 4.13 ± 1.30 (1.42) | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

| Sample: YGWC-28S | | Lab ID: 2630320015 | Collected: 03/19/20 14:55 | Received: 03/24/20 09:10 | 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 | 0.331 ± 0.270 (0.478) C:88% T:NA | pCi/L | 04/01/20 08:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.683 ± 0.380 (0.682) C:70% T:88% | pCi/L | 04/10/20 12:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.01 ± 0.650 (1.16) | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

| Sample: YGWC-28I | | Lab ID: 2630320016 | Collected: 03/19/20 16:00 | Received: 03/24/20 09:10 | 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 | 0.550 ± 0.334 (0.488) C:80% T:NA | pCi/L | 04/01/20 08:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.363 ± 0.327 (0.660) C:77% T:78% | pCi/L | 04/10/20 12:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.913 ± 0.661 (1.15) | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

| Sample: YGWC-291 | | Lab ID: 2630320017 | Collected: 03/20/20 10:12 | Received: 03/24/20 09:10 | 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 | 1.01 ± 0.451 (0.557) C:82% T:NA | pCi/L | 04/01/20 08:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.411 ± 0.298 (0.567) C:76% T:83% | pCi/L | 04/10/20 12:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.42 ± 0.749 (1.12) | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

| Sample: EB-2-3-19-20 | | Lab ID: 2630320018 | Collected: 03/19/20 13:15 | Received: 03/24/20 09:10 | 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 | 0.520 ± 0.337 (0.498) C:73% T:NA | pCi/L | 04/01/20 08:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.198 ± 0.300 (0.646) C:74% T:85% | pCi/L | 04/10/20 12:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.718 ± 0.637 (1.14) | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

| Sample: FB-2-3-19-20 | | Lab ID: 2630320019 | Collected: 03/19/20 11:15 | Received: 03/24/20 09:10 | 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 | 0.493 ± 0.330 (0.531) C:79% T:NA | pCi/L | 04/01/20 08:10 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.267 ± 0.338 (0.716) C:77% T:77% | pCi/L | 04/10/20 12:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.760 ± 0.668 (1.25) | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

Sample: DUP-2 **Lab ID: 2630320020** Collected: 03/20/20 00:00 Received: 03/24/20 09:10 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 | 0.702 ± 0.349 (0.439) C:83% T:NA | pCi/L | 04/01/20 08:10 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.572 ± 0.358 (0.668) C:77% T:86% | pCi/L | 04/10/20 12:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.27 ± 0.707 (1.11) | pCi/L | 04/13/20 10:04 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 390093 | Analysis Method: | EPA 9315 |
| QC Batch Method: | EPA 9315 | Analysis Description: | 9315 Total Radium |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

METHOD BLANK: 1889261 Matrix: Water

Associated Lab Samples: 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.212 ± 0.150 (0.261) C:87% T:NA | pCi/L | 03/31/20 17:53 | |

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: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

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.

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: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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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without the written consent of Pace Analytical Services, LLC.

Chain of Custody

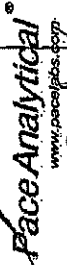
Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: GA
 Cert. Needed: Yes No
 Owner Received Date: 3/20/2020 Results Requested By: 4/3/2020

Workorder: 2630320 Workorder Name: PLANT YATES AP-2

Kevin Herring
 Pace Analytical Charlotte
 9800 Kincey Ave.
 Suite 100
 Huntersville, NC 28078
 Phone (704)875-9092

Pace Analytical Pittsburgh
 1638 Roseytown Road
 Suites 2,3, & 4
 Greensburg, PA 15601
 Phone (724)650-5600



www.paceanalytical.com

WO#: 30356152



30356152

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | HNO3 | Preserved Containers | RAD 9315 | RAD 9320 | LAB USE ONLY |
|------|--------------|-------------|-------------------|------------|--------|------|----------------------|----------|----------|--------------|
| 1 | YGWA-1I | PS | 3/18/2020 15:37 | 2630320001 | Water | ✓ | 2 | X | X | CC1 |
| 2 | YGWA-1D | PS | 3/19/2020 10:33 | 2630320002 | Water | ✓ | 2 | X | X | CC2 |
| 3 | YGWA-2I | PS | 3/19/2020 12:37 | 2630320003 | Water | ✓ | 2 | X | X | CC3 |
| 4 | YGWA-3I | PS | 3/19/2020 11:00 | 2630320004 | Water | ✓ | 2 | X | X | CC4 |
| 5 | YGWA-3D | PS | 3/19/2020 12:10 | 2630320005 | Water | ✓ | 2 | X | X | CC5 |
| 6 | YGWA-14S | PS | 3/18/2020 15:50 | 2630320006 | Water | ✓ | 2 | X | X | CC6 |
| 7 | YGWA-30I | PS | 3/19/2020 14:20 | 2630320007 | Water | ✓ | 2 | X | X | CC7 |
| 8 | EB-1-3-19-20 | PS | 3/19/2020 13:15 | 2630320008 | Water | ✓ | 2 | X | X | CC8 |
| 9 | FB-1-3-19-20 | PS | 3/19/2020 15:15 | 2630320009 | Water | ✓ | 2 | X | X | CC9 |
| 10 | DUP-1 | PS | 3/18/2020 00:00 | 2630320010 | Water | ✓ | 2 | X | X | CC0 |
| 11 | YGWC-26S | PS | 3/19/2020 16:47 | 2630320011 | Water | ✓ | 4 | X | X | CC1 |
| 12 | YGWC-26I | PS | 3/20/2020 10:47 | 2630320012 | Water | ✓ | 2 | X | X | CC2 |
| 13 | YGWC-27S | PS | 3/20/2020 12:00 | 2630320013 | Water | ✓ | 2 | X | X | CC3 |
| 14 | YGWC-27I | PS | 3/20/2020 12:05 | 2630320014 | Water | ✓ | 2 | X | X | CC4 |
| 15 | YGWC-28S | PS | 3/19/2020 14:55 | 2630320015 | Water | ✓ | 2 | X | X | CC5 |
| 16 | YGWC-28I | PS | 3/19/2020 16:00 | 2630320016 | Water | ✓ | 2 | X | X | CC6 |
| 17 | YGWC-29I | PS | 3/20/2020 10:12 | 2630320017 | Water | ✓ | 2 | X | X | CC7 |
| 18 | EB-2-3-19-20 | PS | 3/19/2020 13:15 | 2630320018 | Water | ✓ | 2 | X | X | CC8 |
| 19 | FB-2-3-19-20 | PS | 3/19/2020 11:15 | 2630320019 | Water | ✓ | 2 | X | X | CC9 |

Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: GA

Cert. Needed: Yes No

Owner Received Date: 3/20/2020

Results Requested By: 4/3/2020

Workorder: 2630320 Workorder Name: PLANT YATES AP-2

Kevin Herring
Pace Analytical Charlotte
9800 Kinsey Ave.
Suite 100
Huntersville, NC 28078
Phone (704)875-9092

Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2,3, & 4
Greensburg, PA 15601
Phone (724)850-5600



| Item | Sample ID | Sample Description | Collection Date/Time | Preserved Date/Time | Matrix | Container | Seal | Temp | Received By | Date/Time | Received By | Date/Time | Received on Ice | Y or N | Y or N | Y or N | LAB USE ONLY |
|------|-----------|--------------------|----------------------|---------------------|--------|-----------|------|------|-------------|-----------|-------------|-----------|-----------------|--------|--------|--------|--------------|
| 20 | DUP-2 | PS | 3/20/2020 00:00 | 2630320020 | Water | | | | | | | | X | X | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|-----------|-------------|-----------|-------------|--------------|
| 1 | [Signature] | 3/23/2020 | [Signature] | 3-24-20 9:40 |
| 2 | | | | |
| 3 | | | | |

Cooler Temperature on Receipt: 111 °C Custody Seal: Y or N Received on Ice: Y or N Samples Intact: Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace NC

Project # 30356152

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 1657 9507 0841

| | |
|------------|-----------|
| Label | <u>ML</u> |
| LIMS Login | <u>ML</u> |

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

| Comments: | Yes | No | N/A | pH paper Lot# | Date and Initials of person examining contents: |
|---|-------------------------------------|--------------------------|--------------------------|----------------------------------|---|
| | | | | <u>10DZ191</u> | <u>ML 3-24-20</u> |
| Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| -Includes date/time/ID Matrix: <u>WT</u> | | | | | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Short Hold Time Analysis (<72hr remaining): | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Rush Turn Around Time Requested: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Correct Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Orthophosphate field filtered | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Hex Cr Aqueous sample field filtered | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Organic Samples checked for dechlorination: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Filtered volume received for Dissolved tests | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| All containers have been checked for preservation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | | | | <u>PM</u> | |
| All containers meet method preservation requirements. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed <u>ML</u> | Date/time of preservation |
| | | | | Lot # of added preservative | |
| Headspace in VOA Vials (>6mm): | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Trip Blank Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Trip Blank Custody Seals Present | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Rad Samples Screened < 0.5 mrem/hr | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed <u>ML</u> | Date: <u>3-24-20</u> |

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

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)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/31/2020
Worklist: 53143
Matrix: DW



| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 1889261 |
| MB Concentration: | 0.212 |
| M/B Counting Uncertainty: | 0.146 |
| MB MDC: | 0.261 |
| MB Numerical Performance Indicator: | 2.84 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCS# (Y or N)? | | N |
|---|----------------|-----------|---|
| | LCS53143 | LCS#53143 | |
| Count Date: | 4/1/2020 | | |
| Spike I.D.: | 19-033 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 24.049 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.505 | | |
| Target Conc. (pCi/L, g, F): | 4.764 | | |
| Uncertainty (Calculated): | 0.057 | | |
| Result (pCi/L, g, F): | 4.829 | | |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.763 | | |
| Numerical Performance Indicator: | 0.16 | | |
| Percent Recovery: | 101.35% | | |
| 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.: | 2630320011 |
| Duplicate Sample I.D.: | 2630320011DUP |
| Sample Result (pCi/L, g, F): | 0.437 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.340 |
| Sample Duplicate Result (pCi/L, g, F): | 0.763 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.365 |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | -1.262 |
| Duplicate RPD: | 54.35% |
| Duplicate Status vs Numerical Indicator: | N/A |
| Duplicate Status vs RPD: | Fail |
| % RPD Limit: | 75% |

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

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

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

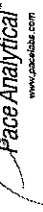
Comments:

Matrix must be re-prepped due to unacceptable precision.

Lplak
Chp

LAM 4/1/20
Q H 1/20

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/31/2020
Worklist: 53143
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 1869261 |
| MB Concentration: | 0.212 |
| MB Counting Uncertainty: | 0.146 |
| MB MDC: | 0.261 |
| MB Numerical Performance Indicator: | 2.84 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCSD (Y or N)? | Y |
|---|----------|----------------|----------|
| Count Date: | 4/1/2020 | LCSD53143 | 4/1/2020 |
| Spike I.D.: | 19-033 | | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.049 | | 24.049 |
| Volume Used (mL): | 0.10 | | 0.10 |
| Aliquot Volume (L, g, F): | 0.505 | | 0.516 |
| Target Conc. (pCi/L, g, F): | 4.764 | | 4.659 |
| Uncertainty (Calculated): | 0.057 | | 0.056 |
| Result (pCi/L, g, F): | 4.829 | | 5.369 |
| LCSD/LCSD Counting Uncertainty (pCi/L, g, F): | 0.783 | | 0.817 |
| Numerical Performance Indicator: | 0.16 | | 1.70 |
| Percent Recovery: | 101.35% | | 115.24% |
| 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 | | LCSD (Y or N)? | Y |
|--|----------|----------------|---|
| Sample I.D.: | LCS53143 | | |
| Duplicate Sample I.D.: | LCS53143 | | |
| Sample Result (pCi/L, g, F): | 4.829 | | |
| Sample Duplicate Result (pCi/L, g, F): | 0.783 | | |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 5.369 | | |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.817 | | |
| Are sample and/or duplicate results below RL? | NO | | |
| Duplicate Numerical Performance Indicator: | -0.937 | | |
| Duplicate (Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD: | 12.83% | | |
| 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 |
|--|----------|----------|
| <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): 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):</p> <p>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:</p> | | |

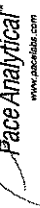
| Matrix Spike/Matrix Spike Duplicate Sample Assessment |
|---|
| <p>Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate (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> |

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

Comments:

Handwritten signature and date: 3/31/20

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/31/2020
Worklist: 53144
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|--------------|
| MB Sample ID | 1889262 |
| MB concentration: | 0.941 |
| M/B 2 Sigma CSU: | 0.434 |
| MB MDC: | 0.732 |
| MB Numerical Performance Indicator: | 4.26 |
| MB Status vs Numerical Indicator: | Fail* |
| MB Status vs. MDC: | See Comment* |

| Laboratory Control Sample Assessment | | Y |
|---|-----------|-----------|
| LCS# | (Y or N)? | |
| LCS53144 | 4/10/2020 | LCS53144 |
| Count Date: | 4/10/2020 | 4/10/2020 |
| Spike I.D.: | 19-057 | 19-057 |
| Decay Corrected Spike Concentration (pCi/mL): | 34.539 | 34.538 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.804 | 0.821 |
| Target Conc. (pCi/L, g, F): | 4.295 | 4.209 |
| Uncertainty (Calculated): | 0.309 | 0.303 |
| Result (pCi/L, g, F): | 3.893 | 5.180 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.908 | 1.136 |
| Numerical Performance Indicator: | -0.82 | 1.62 |
| Percent Recovery: | 90.65% | 123.05% |
| Status vs Numerical Indicator: | N/A | N/A |
| Upper % Recovery Limits: | Pass | Pass |
| Lower % Recovery Limits: | 135% | 135% |
| | 60% | 60% |

| Duplicate Sample Assessment | |
|---|---|
| LCS53144 | LCS53144 |
| 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): | 3.893 |
| Sample Duplicate Result (pCi/L, g, F): | 0.908 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 5.180 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.136 |
| Are sample and/or duplicate results below RL? | NO |
| Duplicate Numerical Performance Indicator: | -1.733 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 30.32% |
| Duplicate Status vs Numerical Indicator: | Pass |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

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

Comments:

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

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

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

5/15/20
WT

See 413/20

LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Yates Ash Pond-2

March 2020

Georgia Power Company – Plant Yates Ash Pond-2

Quality Control Review of Analytical Data – March 2020

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Pace Analytical Services, Atlanta, Asheville, and Pittsburgh for groundwater samples collected at Plant Yates AP-2 between March 18, 2020 and March 20, 2020. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix. SDG 2630320 was revised by the laboratory to correct the DUP-1 sample data that were switched with SDG 2630255 Gypsum Storage.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma (USEAP 6010D), Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA 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. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and COCs were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

- Laboratory Precision:** Laboratory goals for precision were met, with the exception of Radium-226 on YGWC-26S (2630320011) as described in the qualifications section below.
- Field Precision:** Field goals for precision were met, with the exceptions of Boron and Total Dissolved Solids (TDS) on YGWA-14S (2630320006) and DUP-1 (2630255009) as described in the qualifications section below.
- Accuracy:** Laboratory goals for accuracy were met.
- Detection Limits:** Project goals for detection limits were met.
- Completeness:** There were no rejected analytical results for this event, resulting in a completion of 100%.
- Holding Times:** Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

- J:** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample
- ND:** The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Samples YGWA-14S (2630320006) and DUP-1 (2630255009) were qualified as estimated (J) for Boron and TDS as the respective field relative percent differences (RPDs) exceeded QC criteria (49.06% and 30.30% above limit of 25).

- Sample YGWC-26S (2630320011) was qualified as estimated (J) for Radium-226 as the laboratory RPD exceeded QC criteria (54.35% above limit of 25).
- Certain antimony results in SDG 2630320 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the method detection limit (MDL) was raised to the sample result as part of the qualification process.
- Certain radium results in SDG 2630320 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Yates Ash Pond-2 sampled between March 18, 2020 and March 20, 2020 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Plant Yates Ash Pond-2

Sample Summary Table – March 2020

| SDG | Field Identification | Collection Date | Lab Identification | Matrix | QC Samples | Analyses | | | |
|-------|----------------------|-----------------|--------------------|--------|---------------|-----------------------|----------------|----------------|------------------------------|
| | | | | | | Metals (6010D, 6020B) | Anions (300.0) | TDS (SM 2540C) | Radium-226/-228 (9315, 9320) |
| 30320 | YGWA-1I | 3/18/2020 | 2630320001 | GW | | X | X | X | X |
| 30320 | YGWA-1D | 3/19/2020 | 2630320002 | GW | | X | X | X | X |
| 30320 | YGWA-2I | 3/19/2020 | 2630320003 | GW | | X | X | X | X |
| 30320 | YGWA-3I | 3/19/2020 | 2630320004 | GW | | X | X | X | X |
| 30320 | YGWA-3D | 3/19/2020 | 2630320005 | GW | | X | X | X | X |
| 30320 | YGWA-14S | 3/18/2020 | 2630320006 | GW | | X | X | X | X |
| 30320 | YGWA-30I | 3/19/2020 | 2630320007 | GW | | X | X | X | X |
| 30320 | EB-1-3-19-20 | 3/19/2020 | 2630320008 | WQ | EB | X | X | X | X |
| 30320 | FB-1-3-19-20 | 3/19/2020 | 2630320009 | WQ | FB | X | X | X | X |
| 30255 | DUP-1 | 3/18/2020 | 2630255009 | GW | FD (YGWA-14S) | X | X | X | |
| 30320 | DUP-1 | 3/18/2020 | 2630320010 | GW | FD (YGWA-14S) | | | | X |
| 30320 | YGWC-26S | 3/19/2020 | 2630320011 | GW | | X | X | X | X |
| 30320 | YGWC-26I | 3/20/2020 | 2630320012 | GW | | X | X | X | X |
| 30320 | YGWC-27S | 3/20/2020 | 2630320013 | GW | | X | X | X | X |
| 30320 | YGWC-27I | 3/20/2020 | 2630320014 | GW | | X | X | X | X |
| 30320 | YGWC-28S | 3/19/2020 | 2630320015 | GW | | X | X | X | X |
| 30320 | YGWC-28I | 3/19/2020 | 2630320016 | GW | | X | X | X | X |
| 30320 | YGWC-29I | 3/20/2020 | 2630320017 | GW | | X | X | X | X |
| 30320 | EB-2-3-19-20 | 3/19/2020 | 2630320018 | WQ | EB | X | X | X | X |
| 30320 | FB-2-3-19-20 | 3/19/2020 | 2630320019 | WQ | FB | X | X | X | X |
| 30320 | DUP-2 | 3/20/2020 | 2630320020 | GW | FD (YGWC-26I) | X | X | X | X |

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 GW – Groundwater
 QC – Quality Control
 TDS – Total Dissolved Solids
 WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Yates Ash Pond-2

Qualifier Summary Table – March 2020

| SDG | Field Identification | Constituent | New RL | New MDL or MDC | Qualifier | Reason |
|-------|----------------------|-------------|--------|----------------|-----------|-----------------------------|
| 30320 | YGWA-14S | Boron | | | J | RPD exceeds field goal |
| 30255 | DUP-1 | Boron | | | J | RPD exceeds field goal |
| 30320 | YGWA-14S | TDS | | | J | RPD exceeds field goal |
| 30255 | DUP-1 | TDS | | | J | RPD exceeds field goal |
| 30320 | YGWA-1I | Antimony | | 0.0004 | ND | Blank detection |
| 30320 | YGWA-2I | Antimony | | 0.0003 | ND | Blank detection |
| 30320 | YGWA-3D | Antimony | | 0.00064 | ND | Blank detection |
| 30320 | YGWC-26S | Antimony | | 0.0017 | ND | Blank detection |
| 30320 | YGWC-26I | Antimony | | 0.00059 | ND | Blank detection |
| 30320 | YGWC-27S | Antimony | | 0.0003 | ND | Blank detection |
| 30320 | YGWC-27I | Antimony | | 0.00033 | ND | Blank detection |
| 30320 | YGWA-1I | Radium-228 | | 0.880 | ND | Blank detection |
| 30320 | YGWA-2I | Radium-226 | | 0.355 | ND | Blank detection |
| 30320 | YGWA-2I | Radium-228 | | 0.786 | ND | Blank detection |
| 30320 | YGWA-3I | Radium-226 | | 0.389 | ND | Blank detection |
| 30320 | YGWA-3I | Radium-228 | | 0.763 | ND | Blank detection |
| 30320 | YGWA-3D | Radium-226 | | 0.282 | ND | Blank detection |
| 30320 | YGWA-3D | Radium-228 | | 0.838 | ND | Blank detection |
| 30320 | YGWA-14S | Radium-226 | | 0.349 | ND | Blank detection |
| 30320 | YGWA-14S | Radium-228 | | 0.784 | ND | Blank detection |
| 30320 | YGWA-30I | Radium-228 | | 0.740 | ND | Blank detection |
| 30320 | YGWC-26S | Radium-226 | | 0.615 | ND | Blank detection |
| 30320 | YGWC-26S | Radium-228 | | 0.817 | ND | Blank detection |
| 30320 | YGWC-26I | Radium-226 | | 0.653 | ND | Blank detection |
| 30320 | YGWC-26I | Radium-228 | | 0.759 | ND | Blank detection |
| 30320 | YGWC-27S | Radium-226 | | 0.452 | ND | Blank detection |
| 30320 | YGWC-27I | Radium-226 | | 0.698 | ND | Blank detection |
| 30320 | YGWC-28S | Radium-226 | | 0.478 | ND | Blank detection |
| 30320 | YGWC-28I | Radium-226 | | 0.488 | ND | Blank detection |
| 30320 | YGWC-29I | Radium-226 | | 0.557 | ND | Blank detection |
| 30320 | YGWC-26S | Radium-226 | | | J | RPD exceeds laboratory goal |

Abbreviations:

MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group
TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

APPENDIX C

Historical Groundwater Analytical Data



| Analyte | Units | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | |
|--------------|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| | | YGWA-1I (060116) | YGWA-1I (072516) | YGWA-1I (091316) | YGWA-1I (110416) | YGWA-1I (011617) | YGWA-1I (030217) | YGWA-1I (042717) | YGWA-1I (062717) | YGWA-1I (100317) | |
| | | 6/1/2016 | 7/25/2016 | 9/13/2016 | 11/4/2016 | 1/16/2017 | 3/2/2017 | 4/27/2017 | 6/27/2017 | 10/3/2017 | |
| Appendix III | pH | SU | 6.33 | 6.21 | 6.16 | 6.29 | 6.29 | 6.28 | 6.09 | 6.21 | 5.98 |
| | Boron | mg/l | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.04 | < 0.04 | < 0.04 | 0.006 J | 0.0071 J |
| | Calcium | mg/l | 2.5 | 2.16 | 2.21 | 2.67 | 2.45 | 2.57 | 2.38 | 2.36 | 2.21 |
| | Chloride | mg/l | 1.6 | 1.4 | 1.3 | 1.6 | 1.4 | 1.3 | 1.3 | 1.4 | 1.7 |
| | Fluoride | mg/l | < 0.2 | 0.06 J | < 0.3 | < 0.3 | < 0.3 | < 0.3 | 0.01 J | < 0.3 | < 0.3 |
| | Sulfate | mg/l | 4.2 | 3.7 | 5.2 | 5 | 7.9 | 7.4 | 7.4 | 6.4 | 5.9 |
| | TDS | mg/l | 54 | 48 | 67 | 60 | 65 | 61 | 31 | 42 | 58 |
| Appendix IV | Antimony | mg/l | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | 0.0017 J | < 0.003 | NA |
| | Arsenic | mg/l | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA |
| | Barium | mg/l | 0.012 | 0.0091 J | 0.008 J | 0.0067 J | 0.0096 J | 0.0112 | 0.0106 | 0.0092 J | NA |
| | Beryllium | mg/l | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA |
| | Cadmium | mg/l | < 0.0025 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA |
| | Chromium | mg/l | < 0.0025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0004 J | < 0.01 | < 0.01 | NA |
| | Cobalt | mg/l | 0.00082 J | 0.0008 J | 0.0009 J | 0.0025 J | 0.0027 J | 0.0022 J | 0.0018 J | 0.0023 J | NA |
| | Lead | mg/l | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA |
| | Lithium | mg/l | < 0.005 | 0.002 J | < 0.05 | < 0.05 | 0.0023 J | 0.0025 J | 0.0027 J | 0.0024 J | NA |
| | Mercury | mg/l | < 0.0002 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | NA |
| | Molybdenum | mg/l | 0.012 J | 0.0098 J | 0.01 J | 0.01 | 0.0086 J | 0.01 | 0.0101 | 0.0093 J | NA |
| | Combined Radium - 226/228 | pCi/l | 0.42 | 1.83 | 0.841 | 0.166 U | 0 | 0.504 U | 0.593 U | 0.657 U | NA |
| | Selenium | mg/l | < 0.0013 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA |
| Thallium | mg/l | < 0.0005 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA | |
| Field | Conductivity | µS/cm | 67.47 | 60.2 | 59.02 | 70 | 74.5 | 68.5 | 69.6 | 66.4 | NA |
| | Dissolved Oxygen | mg/l | 3.01 | 3.42 | 3.02 | 4.44 | 1.84 | 1.82 | 2.08 | 2.12 | NA |
| | Oxidation Reduction Potential | mV | 28.9 | 46.9 | -100.42 | 98.8 | -40.1 | 51.9 | -35.3 | 42.7 | NA |
| | Temperature | C | 18.34 | 20.31 | 18.7 | 20.85 | 15.77 | 15.13 | 21.75 | 19.94 | NA |
| | Turbidity | ntu | 2.52 | 0 | 2.06 | 6.6 | 2.35 | 1.52 | 1.68 | 2.61 | NA |

| Analyte | Units | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | YGWA-1I | |
|---------------------------|-------------------------------|------------------|------------------|------------------|------------------|-------------------|------------------|-------------------|-------------------|------------------|
| | | YGWA-1I (032718) | YGWA-1I (060618) | YGWA-1I (100118) | YGWA-1I (022719) | YGWA-1I (032819) | YGWA-1I (092419) | YGWA-1I (021020) | YGWA-1I (031820) | |
| | | 3/27/2018 | 6/6/2018 | 10/1/2018 | 2/27/2019 | 3/28/2019 | 9/24/2019 | 2/10/2020 | 3/18/2020 | |
| Appendix III | pH | SU | 6.25 | 6.17 | 5.9 | 5.8 | 6.15 | 6.23 | 6.10 | 6.19 |
| | Boron | mg/l | NA | < 0.04 | 0.0049 J | NA | < 0.04 | 0.0055 J | NA | 0.0087 J |
| | Calcium | mg/l | NA | 2.3 | 1.8 | NA | 2.2 | 2.3 | NA | 2.1 |
| | Chloride | mg/l | NA | 1.4 | 1.4 | NA | 1.5 | 1.3 | NA | 1.4 |
| | Fluoride | mg/l | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.050 | < 0.050 |
| | Sulfate | mg/l | NA | 4.4 | 4 | NA | 4.3 | 4.3 | NA | 5.3 |
| | TDS | mg/l | NA | 96 | 60 | NA | 87 | 54 | NA | 35.0 |
| | Appendix IV | Antimony | mg/l | < 0.003 | NA | NA | < 0.003 | NA | NA | < 0.00027 |
| Arsenic | | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00050 JB | < 0.00035 |
| Barium | | mg/l | < 0.01 | 0.0082 J | 0.0084 J | 0.008 J | 0.0082 J | 0.0086 J | 0.0091 J | 0.0084 J |
| Beryllium | | mg/l | < 0.003 | NA | NA | < 0.003 | < 0.003 | < 0.003 | < 0.000074 | < 0.000074 |
| Cadmium | | mg/l | < 0.001 | NA | NA | < 0.001 | < 0.001 | < 0.0025 | < 0.00011 | < 0.00011 |
| Chromium | | mg/l | < 0.01 | NA | NA | < 0.01 | 0.0021 J | 0.0028 J | < 0.00039 | 0.00044 J |
| Cobalt | | mg/l | < 0.01 | < 0.01 | 0.00059 J | 0.00064 J | 0.00091 J | 0.0013 J | 0.0016 J | 0.00087 J |
| Lead | | mg/l | < 0.005 | NA | NA | < 0.005 | NA | NA | < 0.000046 | < 0.000046 |
| Lithium | | mg/l | 0.0023 J | 0.0024 J | 0.0023 J | 0.0023 J | 0.0022 J | 0.0023 J | 0.0023 J | 0.0024 J |
| Mercury | | mg/l | < 0.0005 | NA | NA | 0.000054 J | < 0.0005 | < 0.0005 | < 0.00014 | NA |
| Molybdenum | | mg/l | 0.0074 J | 0.0073 J | 0.0076 J | 0.0078 J | 0.0082 J | 0.0074 J | 0.0062 J | 0.0056 J |
| Combined Radium - 226/228 | | pCi/l | 0.39 U | 2.8 | 1.06 U | 0.637 U | 0.125 U | 0.949 U | 1.25 | 0.458 |
| Selenium | | mg/l | < 0.01 | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.0013 | < 0.0013 |
| Thallium | mg/l | < 0.001 | NA | NA | < 0.001 | NA | NA | 0.000055 J | < 0.000052 | |
| Field | Conductivity | µS/cm | 60.31 | NA | NA | 52.7 | 58.3 | 59.9 | NA | NA |
| | Dissolved Oxygen | mg/l | 3.05 | NA | NA | 3.72 | 4.07 | 2.68 | NA | NA |
| | Oxidation Reduction Potential | mV | 50.82 | NA | NA | 53.4 | 83.8 | 59.5 | NA | NA |
| | Temperature | C | 16.26 | NA | NA | 15.93 | 17.17 | 25.33 | NA | NA |
| | Turbidity | ntu | 1.32 | NA | NA | 2.54 | 2.7 | 1.95 | NA | NA |

| Analyte | Units | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | |
|--------------|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| | | YGWA-1D (060116) | YGWA-1D (072616) | YGWA-1D (091316) | YGWA-1D (110116) | YGWA-1D (011117) | YGWA-1D (030217) | YGWA-1D (042717) | YGWA-1D (062717) | YGWA-1D (100317) | |
| | | 6/1/2016 | 7/26/2016 | 9/13/2016 | 11/1/2016 | 1/11/2017 | 3/2/2017 | 4/27/2017 | 6/27/2017 | 10/3/2017 | |
| Appendix III | pH | SU | 7.46 | 7.43 | 7.44 | 7.24 | 7.3 | 7.23 | 6.99 | 6.87 | 6.81 |
| | Boron | mg/l | < 0.05 | 0.0055 J | < 0.1 | 0.0086 J | 0.0074 J | 0.008 J | 0.0066 J | 0.0087 J | 0.0072 J |
| | Calcium | mg/l | 12 | 11 | 11.8 | 11 | 11.2 | 11 | 11.1 | 13.8 | 14 |
| | Chloride | mg/l | 1.3 | 1.2 | 1.1 | 1.3 | 1.1 | 1 | 1 | 1.1 | 1.1 |
| | Fluoride | mg/l | 0.12 J | 0.08 J | 0.11 J | < 0.3 | 0.05 J | < 0.3 | 0.04 J | < 0.3 | < 0.3 |
| | Sulfate | mg/l | 5 | 5.4 | 2.9 | 3.9 | 3.7 | 4.6 | 5.2 | 5.9 | 6.6 |
| | TDS | mg/l | 120 | 94 | 105 | 44 | 107 | 98 | 116 | 89 | 119 |
| Appendix IV | Antimony | mg/l | < 0.0025 | 0.001 J | 0.001 J | 0.0015 J | < 0.003 | 0.0004 J | 0.0004 J | < 0.003 | NA |
| | Arsenic | mg/l | 0.0021 | 0.0016 J | < 0.005 | < 0.005 | 0.0017 J | 0.0014 J | 0.0018 J | 0.0018 J | NA |
| | Barium | mg/l | 0.008 | 0.006 J | 0.0084 J | 0.0062 J | 0.0069 J | 0.0071 J | 0.0064 J | 0.0054 J | NA |
| | Beryllium | mg/l | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA |
| | Cadmium | mg/l | < 0.0025 | < 0.001 | < 0.001 | < 0.001 | 0.0002 J | < 0.001 | < 0.001 | < 0.001 | NA |
| | Chromium | mg/l | 0.0035 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0009 J | < 0.01 | < 0.01 | NA |
| | Cobalt | mg/l | < 0.0025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA |
| | Lead | mg/l | 0.00056 J | < 0.005 | 0.0001 J | < 0.005 | < 0.005 | 0.0001 J | < 0.005 | < 0.005 | NA |
| | Lithium | mg/l | 0.015 | 0.0135 J | 0.0112 J | 0.0163 J | 0.0166 J | 0.0159 J | 0.0137 J | 0.0094 J | NA |
| | Mercury | mg/l | < 0.0002 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | NA |
| | Molybdenum | mg/l | 0.014 J | 0.0132 | 0.0127 | 0.0092 J | 0.0093 J | 0.0099 J | 0.0103 | 0.0097 J | NA |
| | Combined Radium - 226/228 | pCi/l | 0.321 U | 0.707 U | 1.22 | 0.805 U | 0.705 U | 0.251 U | 1.08 | 1.02 U | NA |
| | Selenium | mg/l | < 0.0013 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA |
| Thallium | mg/l | < 0.0005 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA | |
| Field | Conductivity | µS/cm | 161.82 | 155.2 | 151.18 | 156.8 | 164.5 | 159.1 | 161.8 | 158 | NA |
| | Dissolved Oxygen | mg/l | 0.07 | 0.19 | 0.27 | 0.36 | 0.54 | 0.31 | 0.2 | 0.29 | NA |
| | Oxidation Reduction Potential | mV | -93 | -87.5 | -228.5 | -113.2 | -50.4 | -53.7 | -154.1 | -24.6 | NA |
| | Temperature | C | 19.77 | 18.35 | 18.65 | 18.81 | 16.63 | 17.1 | 17.72 | 19.67 | NA |
| | Turbidity | ntu | NA | 4.01 | 2.66 | 4.68 | 1.91 | 4.62 | 1.15 | 2.61 | NA |

| Analyte | Units | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-1D | YGWA-2I | |
|--------------|-------------------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|--------|
| | | YGWA-1D (032918) | YGWA-1D (060518) | YGWA-1D (100118) | YGWA-1D (022719) | YGWA-1D (032819) | YGWA-1D (092419) | YGWA-1D (021020) | YGWA-1D (031920) | YGWA-2I (091316) | |
| | | 3/29/2018 | 6/5/2018 | 10/1/2018 | 2/27/2019 | 3/28/2019 | 9/24/2019 | 2/10/2020 | 3/19/2020 | 9/13/2016 | |
| Appendix III | pH | SU | 7.38 | 7.16 | 6.8 | 6.84 | 6.99 | 7.07 | 7.20 | 7.03 | 7.41 |
| | Boron | mg/l | NA | 0.0052 J | 0.021 J | NA | 0.005 J | 0.0064 J | NA | 0.0085 J | NA |
| | Calcium | mg/l | NA | 15.2 J | 15.1 | NA | 13.3 J | 15.8 | NA | 15.0 | NA |
| | Chloride | mg/l | NA | 1.1 | 1.1 | NA | 1.4 | 1.1 | NA | 1.1 | NA |
| | Fluoride | mg/l | < 0.3 | 0.055 J | < 0.3 | 0.052 J | 0.036 J | 0.063 J | 0.061 J | 0.064 J | NA |
| | Sulfate | mg/l | NA | 6.4 | 5.6 | NA | 8 | 5.3 | NA | 10 | NA |
| | TDS | mg/l | NA | 127 | 117 | NA | 87 | 124 | NA | 116 | NA |
| Appendix IV | Antimony | mg/l | < 0.003 | NA | NA | < 0.003 | NA | NA | 0.00088 J | < 0.00027 | NA |
| | Arsenic | mg/l | 0.0017 J | 0.0013 J | 0.0016 J | 0.0015 J | 0.00072 J | 0.0014 J | 0.0026 JB | 0.00095 J | NA |
| | Barium | mg/l | < 0.01 | 0.0069 J | 0.0062 J | 0.0074 J | 0.0082 J | 0.0072 J | 0.0066 J | 0.0076 J | NA |
| | Beryllium | mg/l | < 0.003 | NA | NA | < 0.003 | < 0.003 | < 0.003 | < 0.000074 | < 0.000074 | NA |
| | Cadmium | mg/l | < 0.001 | NA | NA | < 0.001 | < 0.001 | < 0.0025 | < 0.00011 | < 0.00011 | NA |
| | Chromium | mg/l | < 0.01 | NA | NA | < 0.01 | < 0.01 | 0.00072 J | 0.00042 J | 0.00084 J | NA |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.005 | < 0.00030 | < 0.00030 | NA |
| | Lead | mg/l | < 0.005 | NA | NA | < 0.005 | NA | NA | 0.000049 J | 0.00012 J | NA |
| | Lithium | mg/l | 0.0078 J | 0.0079 J | 0.0053 J | 0.0093 J | 0.013 J | 0.0046 J | 0.011 J | 0.013 J | NA |
| | Mercury | mg/l | < 0.0005 | NA | NA | 0.000051 J | 0.00004 J | < 0.0005 | < 0.00014 | NA | NA |
| | Molybdenum | mg/l | 0.0076 J | 0.0092 J | 0.0085 J | 0.0087 J | 0.0092 J | 0.0072 J | 0.0087 J | 0.0088 J | NA |
| | Combined Radium - 226/228 | pCi/l | 0.503 U | 0.771 U | 0.783 U | 1.21 U | 1.13 U | 1.22 U | 1.41 | 1.10 | NA |
| | Selenium | mg/l | < 0.01 | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.0013 | < 0.0013 | NA |
| Thallium | mg/l | < 0.001 | NA | NA | < 0.001 | NA | NA | < 0.000052 | < 0.000052 | NA | |
| Field | Conductivity | µS/cm | 167.24 | NA | NA | 145.6 | 152.6 | 168.11 | NA | NA | 208.16 |
| | Dissolved Oxygen | mg/l | 0.25 | NA | NA | 0.14 | 0.27 | 0.34 | NA | NA | 0.5 |
| | Oxidation Reduction Potential | mV | -93.82 | NA | NA | -162.3 | -95.3 | 33 | NA | NA | -91.86 |
| | Temperature | C | 16.45 | NA | NA | 15.88 | 16.29 | 26.15 | NA | NA | 22.44 |
| | Turbidity | ntu | 2.59 | NA | NA | 1.24 | 4.7 | 0.86 | NA | NA | 2.7 |

| Analyte | Units | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | |
|--------------|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------|
| | | YGWA-2I (091416) | YGWA-2I (110416) | YGWA-2I (121516) | YGWA-2I (011617) | YGWA-2I (030317) | YGWA-2I (042817) | YGWA-2I (052617) | YGWA-2I (062817) | YGWA-2I (100317) | |
| | | 9/14/2016 | 11/4/2016 | 12/15/2016 | 1/16/2017 | 3/3/2017 | 4/28/2017 | 5/26/2017 | 6/28/2017 | 10/3/2017 | |
| Appendix III | pH | SU | NA | 7.12 | 7.24 | 7.24 | 7.22 | 7.21 | 7.13 | 7.06 | 6.99 |
| | Boron | mg/l | < 0.1 | < 0.1 | 0.0107 J | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 |
| | Calcium | mg/l | 23.5 | 23.7 | 23.1 | 23.3 | 25.1 | 30.7 | 26.2 | 26.1 | 26.7 |
| | Chloride | mg/l | 1.1 | 1.4 | 2.9 | 0.98 | 1.1 | 0.91 | 0.93 | 1 | 1.2 |
| | Fluoride | mg/l | 0.08 J | < 0.3 | 0.06 J | 0.1 J | < 0.3 | 0.06 J | 0.09 J | 0.11 J | < 0.3 |
| | Sulfate | mg/l | 9.4 | 13 | 1.8 | 11 | 8.8 | 10 | 12 | 11 | 7.9 |
| | TDS | mg/l | 152 | 148 | 191 | 180 | 156 | 130 | 223 | 166 | 153 |
| Appendix IV | Antimony | mg/l | < 0.003 | < 0.003 | 0.0012 J | < 0.003 | < 0.003 | 0.0015 J | 0.0005 J | < 0.003 | NA |
| | Arsenic | mg/l | < 0.005 | 0.0017 J | 0.0023 J | 0.0018 J | 0.0016 J | 0.002 J | 0.0005 J | 0.0016 J | NA |
| | Barium | mg/l | 0.0037 J | 0.0059 J | 0.0056 J | 0.0049 J | 0.0046 J | 0.0039 J | 0.0034 J | 0.003 J | NA |
| | Beryllium | mg/l | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA |
| | Cadmium | mg/l | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA |
| | Chromium | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0005 J | 0.0004 J | < 0.01 | < 0.01 | NA |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA |
| | Lead | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA |
| | Lithium | mg/l | 0.004 J | < 0.05 | 0.0026 J | 0.0023 J | 0.0013 J | 0.0031 J | 0.0038 J | 0.0026 J | NA |
| | Mercury | mg/l | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | NA |
| | Molybdenum | mg/l | 0.0039 J | 0.0077 J | 0.0066 J | 0.0056 J | 0.0049 J | 0.004 J | 0.0029 J | 0.0036 J | NA |
| | Combined Radium - 226/228 | pCi/l | 0.98 U | 0.277 U | 0.071 U | 0.44 U | 0.448 U | 0.548 U | 0 U | 0.608 U | NA |
| | Selenium | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA |
| Thallium | mg/l | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA | |
| Field | Conductivity | µS/cm | NA | 243.3 | 240.8 | 241.3 | 234.8 | 217.4 | 214 | 217.7 | NA |
| | Dissolved Oxygen | mg/l | NA | 0.51 | 3.01 | 0.4 | 0.61 | 0.35 | 0.25 | 0.45 | NA |
| | Oxidation Reduction Potential | mV | NA | -123.3 | -78.2 | -172.3 | -81.6 | -194.4 | -102.6 | -66.8 | NA |
| | Temperature | C | NA | 21.83 | 12.48 | 20.84 | 16.1 | 21.78 | 17.99 | 24.36 | NA |
| | Turbidity | ntu | NA | 1.66 | 3.64 | 4.15 | 1.51 | 3.06 | 2.5 | 2.42 | NA |

| Analyte | Units | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-2I | YGWA-3I | |
|--------------|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-----------------|
| | | YGWA-2I (032818) | YGWA-2I (060718) | YGWA-2I (100118) | YGWA-2I (022719) | YGWA-2I (032919) | YGWA-2I (092419) | YGWA-2I (021120) | YGWA-2I (031920) | YGWA-3I (060116) | |
| | | 3/28/2018 | 6/7/2018 | 10/1/2018 | 2/27/2019 | 3/29/2019 | 9/24/2019 | 2/11/2020 | 3/19/2020 | 6/1/2016 | |
| Appendix III | pH | SU | 7.3 | 7.29 | 7.07 | 7.27 | 7.06 | 7.01 | 7.38 | 7.22 | 7.72 |
| | Boron | mg/l | NA | < 0.04 | < 0.2 | NA | 0.0065 J | 0.0076 J | NA | 0.0073 J | < 0.05 |
| | Calcium | mg/l | NA | 25 | 25 | NA | 23.5 J | 26.4 | NA | 27.4 | 21 |
| | Chloride | mg/l | NA | 1 | 1.1 | NA | 1.2 | 0.95 J | NA | 0.97 J | 1.3 |
| | Fluoride | mg/l | 0.31 | 0.11 J | < 0.3 | 0.12 J | 0.13 J | 0.081 J | 0.075 J | 0.093 J | 0.15 J |
| | Sulfate | mg/l | NA | 8.8 | 9.1 | NA | 9 | 9.1 | NA | 12.4 | 12 |
| | TDS | mg/l | NA | 146 | 155 | NA | 150 | 146 | NA | 148 | 150 |
| Appendix IV | Antimony | mg/l | < 0.003 | NA | NA | < 0.003 | NA | NA | 0.00036 J | 0.00030 JB | < 0.0025 |
| | Arsenic | mg/l | 0.0013 J | 0.00082 J | 0.0011 J | 0.001 J | 0.00063 J | < 0.005 | 0.0044 JB | 0.00066 J | < 0.0013 |
| | Barium | mg/l | < 0.01 | 0.0037 J | 0.0038 J | 0.0035 J | 0.0039 J | 0.0038 J | 0.0036 J | 0.0036 J | 0.0038 |
| | Beryllium | mg/l | < 0.003 | NA | NA | < 0.003 | < 0.003 | < 0.003 | < 0.000074 | < 0.000074 | < 0.0025 |
| | Cadmium | mg/l | < 0.001 | NA | NA | < 0.001 | < 0.001 | < 0.0025 | < 0.00011 | < 0.00011 | < 0.0025 |
| | Chromium | mg/l | < 0.01 | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.00039 | 0.00048 J | < 0.0025 |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.005 | < 0.00030 | < 0.00030 | < 0.0025 |
| | Lead | mg/l | < 0.005 | NA | NA | < 0.005 | NA | NA | < 0.000046 | < 0.000046 | < 0.0013 |
| | Lithium | mg/l | 0.0025 J | 0.0017 J | < 0.25 o | 0.0011 J | 0.0016 J | 0.0011 J | 0.0012 J | 0.0022 J | 0.01 |
| | Mercury | mg/l | < 0.0005 | NA | NA | < 0.0005 | < 0.0005 | < 0.0005 | < 0.00014 | NA | < 0.0002 |
| | Molybdenum | mg/l | 0.0038 J | 0.004 J | 0.0042 J | 0.0041 J | 0.0041 J | 0.0054 J | 0.0057 J | 0.0046 J | 0.0055 J |
| | Combined Radium - 226/228 | pCi/l | 0.412 U | 0.73 U | 0.756 U | 0.635 U | 0.224 U | 0.429 U | 0.817 | 0.715 | 0.896 |
| | Selenium | mg/l | < 0.01 | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.0013 | < 0.0013 | < 0.0013 |
| Thallium | mg/l | < 0.001 | NA | NA | < 0.001 | NA | NA | < 0.000052 | < 0.000052 | < 0.0005 | |
| Field | Conductivity | µS/cm | 219.56 | NA | NA | 197.2 | 213.6 | 222.08 | NA | NA | 213.8 |
| | Dissolved Oxygen | mg/l | 0.4 | NA | NA | 0.56 | 1.59 | 0.47 | NA | NA | 0.09 |
| | Oxidation Reduction Potential | mV | -38.23 | NA | NA | -111.9 | -84.5 | 56.5 | NA | NA | -120 |
| | Temperature | C | 16.4 | NA | NA | 15.98 | 16.8 | 22.98 | NA | NA | 17.45 |
| | Turbidity | ntu | 0.46 | NA | NA | 0.5 | 3.1 | 1.11 | NA | NA | NA |

| Analyte | Units | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3I | |
|--------------|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| | | YGWA-3I (072516) | YGWA-3I (091416) | YGWA-3I (110116) | YGWA-3I (011117) | YGWA-3I (030117) | YGWA-3I (042617) | YGWA-3I (062817) | YGWA-3I (100417) | YGWA-3I (032818) | |
| | | 7/25/2016 | 9/14/2016 | 11/1/2016 | 1/11/2017 | 3/1/2017 | 4/26/2017 | 6/28/2017 | 10/4/2017 | 3/28/2018 | |
| Appendix III | pH | SU | 7.74 | 7.65 | 7.7 | 7.53 | 7.42 | 7.4 | 7.5 | 7.45 | 7.74 |
| | Boron | mg/l | < 0.1 | < 0.1 | < 0.1 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | NA |
| | Calcium | mg/l | 20.3 | 19.7 | 18.4 | 20.3 | 18.6 | 25.6 | 23.9 | 22.1 | NA |
| | Chloride | mg/l | 1.3 | 1.3 | 1.4 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | NA |
| | Fluoride | mg/l | 0.14 J | 0.18 J | < 0.3 | 0.09 J | < 0.3 | 0.08 J | 0.12 J | < 0.3 | < 0.3 |
| | Sulfate | mg/l | 8.4 | 8.6 | 8.9 | 8.6 | 9.3 | 11 | 12 | 12 | NA |
| | TDS | mg/l | 135 | 127 | 75 | 148 | 182 | 92 | 126 | 147 | NA |
| Appendix IV | Antimony | mg/l | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.0004 J | < 0.005 | 0.0011 J | NA | < 0.005 |
| | Barium | mg/l | 0.0031 J | 0.0027 J | 0.0027 J | 0.0036 J | 0.0036 J | 0.0038 J | 0.004 J | NA | < 0.01 |
| | Beryllium | mg/l | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 |
| | Cadmium | mg/l | < 0.001 | < 0.001 | < 0.001 | 0.00008 J | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 |
| | Chromium | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0004 J | < 0.01 | < 0.01 | NA | < 0.01 |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 |
| | Lead | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA | < 0.005 |
| | Lithium | mg/l | 0.0132 J | 0.012 J | 0.0115 J | 0.0085 J | 0.0114 J | 0.0092 J | 0.0085 J | NA | 0.013 J |
| | Mercury | mg/l | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | NA | < 0.0005 |
| | Molybdenum | mg/l | 0.0037 J | 0.0034 J | 0.0025 J | 0.0033 J | 0.0044 J | 0.0075 J | 0.008 J | NA | 0.0025 J |
| | Combined Radium - 226/228 | pCi/l | 2.28 | 0.821 U | 0.585 U | 1.22 | 0.877 U | 0.672 U | 1.07 U | NA | 0.65 U |
| | Selenium | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 |
| Thallium | mg/l | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | |
| Field | Conductivity | µS/cm | 185 | 190.6 | 191.5 | 217.5 | 212 | 229.2 | 226.9 | NA | 196.33 |
| | Dissolved Oxygen | mg/l | 0.06 | 0.11 | 0.64 | 0.55 | 0.46 | 0.4 | 0.45 | NA | 0.53 |
| | Oxidation Reduction Potential | mV | -116.2 | -116.58 | -121.9 | -33 | -54.6 | -64.5 | -11.8 | NA | -110.09 |
| | Temperature | C | 19.38 | 19.68 | 18.82 | 16.44 | 17.58 | 19.5 | 20.59 | NA | 17.7 |
| | Turbidity | ntu | 0 | 0.73 | 0.18 | 0.32 | 0.68 | 0.45 | 1.89 | NA | 0.32 |

| Analyte | Units | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3I | YGWA-3D | YGWA-3D | |
|--------------|-------------------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|-----------------|
| | | YGWA-3I (060818) | YGWA-3I (100118) | YGWA-3I (022719) | YGWA-3I (040119) | YGWA-3I (092519) | YGWA-3I (021120) | YGWA-3I (031920) | YGWA-3D (060216) | YGWA-3D (072616) | |
| | | 6/8/2018 | 10/1/2018 | 2/27/2019 | 4/1/2019 | 9/25/2019 | 2/11/2020 | 3/19/2020 | 6/2/2016 | 7/26/2016 | |
| Appendix III | pH | SU | 7.64 | 7.47 | 7.54 | 7.74 | 7.47 | 7.09 | 7.31 | 7.84 | 7.88 |
| | Boron | mg/l | < 0.04 | < 0.2 | NA | < 0.04 | < 0.04 | NA | 0.0053 J | < 0.05 | 0.0097 J |
| | Calcium | mg/l | 21.9 J | 19.7 | NA | 20.4 J | 22.4 | NA | 21.9 | 28 | 24.5 |
| | Chloride | mg/l | 1.2 | 1.2 | NA | 1.1 | 1.1 | NA | 1.1 | 1.4 | 1.6 |
| | Fluoride | mg/l | 0.2 J | < 0.3 | 0.13 J | 0.1 J | 0.1 J | 0.094 J | 0.11 J | 0.62 | 0.49 |
| | Sulfate | mg/l | 9.6 | 9.1 | NA | 8.5 | 13.8 | NA | 12.9 | 5.8 | 6.7 |
| | TDS | mg/l | 158 | 138 | NA | 19 J | 159 | NA | 148 D6 | 130 | 141 |
| Appendix IV | Antimony | mg/l | NA | NA | < 0.003 | NA | NA | < 0.00027 | < 0.00027B | < 0.0025 | 0.002 J |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.0041 JB | < 0.00035 | < 0.0013 | < 0.005 |
| | Barium | mg/l | 0.0034 J | 0.0034 J | 0.0034 J | 0.003 J | 0.005 J | 0.0031 J | 0.0029 J | 0.01 | 0.0088 J |
| | Beryllium | mg/l | NA | NA | < 0.003 | < 0.003 | < 0.003 | < 0.000074 | < 0.000074 | < 0.0025 | < 0.003 |
| | Cadmium | mg/l | NA | NA | < 0.001 | < 0.001 | < 0.0025 | < 0.00011 | < 0.00011 | < 0.0025 | < 0.001 |
| | Chromium | mg/l | NA | NA | < 0.01 | < 0.01 | 0.0019 J | < 0.00039 | < 0.00039 | 0.0013 J | < 0.01 |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.005 | < 0.00030 | < 0.00030 | < 0.0025 | < 0.01 |
| | Lead | mg/l | NA | NA | < 0.005 | NA | NA | < 0.000046 | < 0.000046 | 0.00056 J | 0.0001 J |
| | Lithium | mg/l | 0.012 J | 0.011 J | 0.014 J | 0.013 J | 0.01 J | 0.013 J | 0.014 J | 0.018 | 0.0221 J |
| | Mercury | mg/l | NA | NA | 0.000061 J | 0.000084 J | < 0.0005 | < 0.00014 | NA | < 0.0002 | < 0.0005 |
| | Molybdenum | mg/l | 0.0041 J | 0.0037 J | 0.0027 J | 0.0021 J | 0.0087 J | 0.0030 J | 0.0043 J | 0.0093 J | 0.0113 |
| | Combined Radium - 226/228 | pCi/l | 1.89 | 1.58 | 3.67 | 2.28 | 1.6 | 1.85 | 2.20 | 2.51 | 3.82 |
| | Selenium | mg/l | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.01 |
| Thallium | mg/l | NA | NA | < 0.001 | NA | NA | < 0.000052 | < 0.000052 | < 0.0005 | 0.0001 J | |
| Field | Conductivity | µS/cm | NA | NA | 195.6 | 187.5 | 234.27 | NA | NA | 216.1 | 215.7 |
| | Dissolved Oxygen | mg/l | NA | NA | 0.42 | 0.38 | 1.07 | NA | NA | 0.17 | 1.43 |
| | Oxidation Reduction Potential | mV | NA | NA | -83.5 | -87.8 | -26.6 | NA | NA | -137.3 | -101.5 |
| | Temperature | C | NA | NA | 16.46 | 15.6 | 29.09 | NA | NA | 17.43 | 19.25 |
| | Turbidity | ntu | NA | NA | 0.79 | 0.95 | 4.7 | NA | NA | NA | 2.27 |

| Analyte | Units | YGWA-3D | YGWA-3D | YGWA-3D | YGWA-3D | YGWA-3D | YGWA-3D | YGWA-3D | YGWA-3D | YGWA-3D | |
|--------------|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| | | YGWA-3D (091516) | YGWA-3D (110116) | YGWA-3D (011117) | YGWA-3D (030217) | YGWA-3D (042617) | YGWA-3D (062817) | YGWA-3D (100417) | YGWA-3D (032818) | YGWA-3D (060718) | |
| | | 9/15/2016 | 11/1/2016 | 1/11/2017 | 3/2/2017 | 4/26/2017 | 6/28/2017 | 10/4/2017 | 3/28/2018 | 6/7/2018 | |
| Appendix III | pH | SU | 7.74 | 7.75 | 7.66 | 7.68 | 7.45 | 7.65 | 7.49 | 7.91 | 7.69 |
| | Boron | mg/l | 0.0102 J | < 0.1 | < 0.04 | 0.0084 J | < 0.04 | < 0.04 | < 0.04 | NA | 0.004 J |
| | Calcium | mg/l | 27 | 25.6 | 27.5 | 27.5 | 30.4 | 29.8 | 29.7 | NA | 29.1 |
| | Chloride | mg/l | 1.5 | 1.7 | 1.2 | 1.2 | 1.2 | 1.3 | 1.5 | NA | 1.2 |
| | Fluoride | mg/l | 0.54 | 0.68 | 0.49 | 0.48 | 0.48 | 0.47 | < 0.47 | 0.56 | 0.48 |
| | Sulfate | mg/l | 6 | 4.9 | 4.5 | 4.4 | 5.1 | 5.4 | 6.2 | NA | 6.7 |
| | TDS | mg/l | 153 | 92 | 159 | 117 | 181 | 169 | 141 | NA | 95 |
| Appendix IV | Antimony | mg/l | 0.0027 J | < 0.003 | < 0.003 | 0.0008 J | < 0.003 | < 0.003 | NA | < 0.003 | NA |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.0007 J | NA | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.009 J | 0.0079 J | 0.0075 J | 0.009 J | 0.0078 J | 0.0071 J | NA | < 0.01 | 0.0068 J |
| | Beryllium | mg/l | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 | NA |
| | Cadmium | mg/l | < 0.001 | < 0.001 | 0.0001 J | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | NA |
| | Chromium | mg/l | < 0.01 | < 0.01 | < 0.01 | 0.0006 J | < 0.01 | < 0.01 | NA | < 0.01 | NA |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | < 0.01 |
| | Lead | mg/l | 0.0002 J | < 0.005 | < 0.005 | 0.0002 J | < 0.005 | < 0.005 | NA | < 0.005 | NA |
| | Lithium | mg/l | 0.0197 J | 0.0194 J | 0.0177 J | 0.0185 J | 0.0183 J | 0.0173 J | NA | 0.02 J | 0.02 J |
| | Mercury | mg/l | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | NA | < 0.0005 | NA |
| | Molybdenum | mg/l | 0.0112 | 0.0099 J | 0.0093 J | 0.0103 | 0.01 | 0.0102 | NA | 0.011 | 0.011 |
| | Combined Radium - 226/228 | pCi/l | 4.24 | 3.92 | 2.52 | 3.13 | 2.35 | 2.6 | NA | 3 | 2.79 |
| | Selenium | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | NA |
| Thallium | mg/l | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | NA | |
| Field | Conductivity | µS/cm | 222.59 | 226.2 | 231.7 | 231.9 | 226.5 | 225 | NA | 231.13 | NA |
| | Dissolved Oxygen | mg/l | 0.07 | 0.23 | 0.54 | 0.17 | 0.12 | 0.15 | NA | 0.67 | NA |
| | Oxidation Reduction Potential | mV | -77.19 | -58.9 | -54.9 | -66.7 | -97 | -64.5 | NA | -115.93 | NA |
| | Temperature | C | 18.45 | 18.61 | 16.74 | 15.24 | 18.97 | 21.69 | NA | 19.12 | NA |
| | Turbidity | ntu | 2.54 | 1.03 | 0.76 | 4.75 | 0.95 | 1.81 | NA | 0.23 | NA |

| Analyte | Units | YGWA-3D | YGWA-3D | YGWA-3D | YGWA-3D | YGWA-3D | YGWA-3D | YGWA-14S | YGWA-14S | YGWA-14S | |
|--------------|-------------------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|-----------------|
| | | YGWA-3D (100118) | YGWA-3D (022719) | YGWA-3D (040119) | YGWA-3D (092519) | YGWA-3D (021220) | YGWA-3D (031920) | YGWA-14S (060216) | YGWA-14S (072616) | YGWA-14S (091516) | |
| | | 10/1/2018 | 2/27/2019 | 4/1/2019 | 9/25/2019 | 2/12/2020 | 3/19/2020 | 6/2/2016 | 7/26/2016 | 9/15/2016 | |
| Appendix III | pH | SU | 7.39 | 7.55 | 7.87 | 7.64 | 7.83 | 7.65 | 5.46 | 5.45 | 5.45 |
| | Boron | mg/l | < 0.2 | NA | < 0.04 | 0.0054 J | NA | 0.0073 J | < 0.05 | 0.0177 J | 0.0214 J |
| | Calcium | mg/l | 26.9 | NA | 30.1 | 29.5 | NA | 31.5 | 1.3 | 1.24 | 1.17 |
| | Chloride | mg/l | 1.5 | NA | 1.2 | 1.1 | NA | 1.2 | 4.1 | 4 | 4.2 |
| | Fluoride | mg/l | 0.44 | 0.53 | 0.45 | 0.46 | 0.40 | 0.51 | < 0.2 | 0.02 J | < 0.3 |
| | Sulfate | mg/l | 7.1 | NA | 7.2 | 7 | NA | 9.0 | 6.6 | 6.1 | 6.1 |
| | TDS | mg/l | 165 | NA | 149 | 157 | NA | 146 | 46 | 54 | 54 |
| Appendix IV | Antimony | mg/l | NA | < 0.003 | NA | NA | < 0.00027 | 0.00064 JB | < 0.0025 | 0.0005 J | < 0.003 |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.0038 JB | < 0.00035 | < 0.0013 | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.0065 J | 0.0059 J | 0.0064 J | 0.0059 J | 0.0062 J | 0.0072 J | 0.0081 | 0.0082 J | 0.0087 J |
| | Beryllium | mg/l | NA | < 0.003 | < 0.003 | < 0.003 | < 0.000074 | < 0.000074 | < 0.0025 | 0.0002 J | 0.0002 J |
| | Cadmium | mg/l | NA | < 0.001 | < 0.001 | < 0.0025 | < 0.00011 | < 0.00011 | < 0.0025 | < 0.001 | < 0.001 |
| | Chromium | mg/l | NA | < 0.01 | < 0.01 | 0.0014 J | < 0.00039 | < 0.00039 | < 0.0025 | < 0.01 | < 0.01 |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.005 | < 0.00030 | < 0.00030 | < 0.0025 | < 0.01 | < 0.01 |
| | Lead | mg/l | NA | < 0.005 | NA | NA | < 0.000046 | 0.00017 J | < 0.0013 | < 0.005 | < 0.005 |
| | Lithium | mg/l | 0.02 J | 0.021 J | 0.021 J | 0.02 J | 0.019 J | 0.023 J | < 0.005 | < 0.05 | < 0.05 |
| | Mercury | mg/l | NA | 0.000062 J | 0.000096 J | < 0.0005 | < 0.00014 | NA | < 0.0002 | < 0.0005 | < 0.0005 |
| | Molybdenum | mg/l | 0.012 | 0.011 | 0.012 | 0.012 | 0.013 | 0.013 | < 0.015 | < 0.01 | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 3.14 | 3.79 | 4.33 | 4.2 | 3.87 | 3.96 | 0.329 U | 1.51 | 1.04 U |
| | Selenium | mg/l | NA | < 0.01 | < 0.01 | < 0.01 | < 0.0013 | < 0.0013 | 0.0011 J | 0.0016 J | 0.0014 J |
| Thallium | mg/l | NA | < 0.001 | NA | NA | < 0.000052 | < 0.000052 | < 0.0005 | < 0.001 | < 0.001 | |
| Field | Conductivity | µS/cm | NA | 229 | 212.6 | 234.21 | NA | NA | 56.72 | 60.1 | 62.77 |
| | Dissolved Oxygen | mg/l | NA | 0.1 | 0.24 | 0.18 | NA | NA | 5.24 | 5.33 | 4.55 |
| | Oxidation Reduction Potential | mV | NA | -78.7 | -62.7 | -44.6 | NA | NA | 137 | 106.2 | 53.15 |
| | Temperature | C | NA | 16.51 | 16.59 | 25.14 | NA | NA | 20.83 | 23 | 21.76 |
| | Turbidity | ntu | NA | 0.85 | 1.21 | 1.83 | NA | NA | NA | 0.15 | 1.07 |

| Analyte | Units | YGWA-14S | YGWA-14S | YGWA-14S | YGWA-14S | YGWA-14S | YGWA-14S | YGWA-14S | YGWA-14S | YGWA-14S | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|
| | | YGWA-14S (110216) | YGWA-14S (011017) | YGWA-14S (030817) | YGWA-14S (042617) | YGWA-14S (063017) | YGWA-14S (100517) | YGWA-14S (032718) | YGWA-14S (060818) | YGWA-14S (100118) | |
| | | 11/2/2016 | 1/10/2017 | 3/8/2017 | 4/26/2017 | 6/30/2017 | 10/5/2017 | 3/27/2018 | 6/8/2018 | 10/1/2018 | |
| Appendix III | pH | SU | 5.41 | 5.37 | 5.41 | 5.02 o | 5.39 | 5.49 | 5.47 | 5.45 | 5.39 |
| | Boron | mg/l | < 0.1 | 0.0198 J | 0.0189 J | 0.0161 J | 0.0173 J | 0.0173 J | NA | 0.013 J | 0.015 J |
| | Calcium | mg/l | 1.23 | 1.24 | 1.21 | 1.14 | 1.24 | 1.11 | NA | 1.1 | 0.99 |
| | Chloride | mg/l | 4.9 | 4.1 | 4.2 | 4.1 | 3.7 | 3.8 | NA | 3.4 | 3.8 |
| | Fluoride | mg/l | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| | Sulfate | mg/l | 6.3 | 5.9 | 7 | 7 | 6.5 | 7.9 | NA | 6.4 | 6.8 |
| | TDS | mg/l | 71 | 45 | 178 o | 52 | 45 | 40 | NA | 114 | 50 |
| Appendix IV | Antimony | mg/l | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 | NA | NA |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA | < 0.005 | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.0082 J | 0.0086 J | 0.0088 J | 0.0085 J | 0.0081 J | NA | < 0.01 | 0.007 J | 0.007 J |
| | Beryllium | mg/l | 0.0002 J | 0.0002 J | 0.0002 J | 0.0002 J | 0.0002 J | NA | < 0.003 | NA | NA |
| | Cadmium | mg/l | < 0.001 | < 0.001 | 0.00007 J | < 0.001 | < 0.001 | NA | < 0.001 | NA | NA |
| | Chromium | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | NA | NA |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | < 0.01 | < 0.01 |
| | Lead | mg/l | < 0.005 | < 0.005 | 0.0001 J | < 0.005 | < 0.005 | NA | < 0.005 | NA | NA |
| | Lithium | mg/l | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | NA | < 0.05 | < 0.05 | < 0.05 |
| | Mercury | mg/l | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | NA | < 0.0005 | NA | NA |
| | Molybdenum | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | < 0.01 | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 0.496 U | 0.376 U | 0.0745 U | 0.282 U | 0.994 | NA | 0.189 U | 0.218 U | 1.24 |
| | Selenium | mg/l | < 0.01 | 0.0012 J | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | NA | NA |
| Thallium | mg/l | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | NA | NA | |
| Field | Conductivity | µS/cm | 65.7 | 69.4 | 68.6 | 65.2 | 63.8 | NA | 59.93 | NA | NA |
| | Dissolved Oxygen | mg/l | 5.38 | 5.15 | 5.33 | 6.02 | 6.25 | NA | 6.68 | NA | NA |
| | Oxidation Reduction Potential | mV | 210.2 | 146.7 | 144.8 | 180.7 | 177.8 | NA | 83.78 | NA | NA |
| | Temperature | C | 18.48 | 16.56 | 17.13 | 17.47 | 19.24 | NA | 16.16 | NA | NA |
| | Turbidity | ntu | 0.55 | 1.39 | 1.42 | 0.81 | 1.74 | NA | 0.77 | NA | NA |

| Analyte | Units | YGWA-14S | YGWA-14S | YGWA-14S | YGWA-14S | YGWA-14S | YGWA-30I | YGWA-30I | YGWA-30I | YGWA-30I | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|----------------|
| | | YGWA-14S (022619) | YGWA-14S (032919) | YGWA-14S (092519) | YGWA-14S (021220) | YGWA-14S (031820) | YGWA-30I (060216) | YGWA-30I (072516) | YGWA-30I (091916) | YGWA-30I (110116) | |
| | | 2/26/2019 | 3/29/2019 | 9/25/2019 | 2/12/2020 | 3/18/2020 | 6/2/2016 | 7/25/2016 | 9/19/2016 | 11/1/2016 | |
| Appendix III | pH | SU | 5.46 | 5.34 | 5.19 | 5.48 | 5.38 | 5.75 | 5.82 | 5.78 | 5.62 |
| | Boron | mg/l | NA | 0.014 J | 0.018 J | NA | 0.033 J | < 0.05 | < 0.1 | < 0.1 | < 0.1 |
| | Calcium | mg/l | NA | 1.1 | 1.1 | NA | 1.1 | 1.3 | 1.17 | 1.05 | 1.14 |
| | Chloride | mg/l | NA | 4.2 | 4.8 | NA | 5.4 | 1.9 | 1.7 | 1.6 | 1.8 |
| | Fluoride | mg/l | < 0.3 | < 0.3 | < 0.3 | < 0.050 (< 0.050) | < 0.050 | < 0.2 | 0.06 J | < 0.3 | < 0.3 |
| | Sulfate | mg/l | NA | 7.3 | 6.6 | NA | 9.9 | 1.3 | 1.2 | 1.2 | 1.3 |
| | TDS | mg/l | NA | 63 | 64 | NA | 57.0 (42.0) | 36 | 50 | 35 | < 25 |
| Appendix IV | Antimony | mg/l | < 0.003 | NA | NA | 0.00028 J | < 0.00027 | < 0.0025 | < 0.003 | < 0.003 | < 0.003 |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.00035 | < 0.00035 | < 0.0013 | < 0.005 | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.0067 J | 0.0066 J | 0.0071 J | 0.0076 J | 0.0080 J | 0.0064 | 0.0071 J | 0.0069 J | 0.007 J |
| | Beryllium | mg/l | 0.00016 J | 0.00017 J | 0.00018 J | 0.00023 J | 0.00021 J | < 0.0025 | < 0.003 | < 0.003 | < 0.003 |
| | Cadmium | mg/l | < 0.001 | < 0.001 | < 0.0025 | < 0.00011 | < 0.00011 | < 0.0025 | < 0.001 | < 0.001 | < 0.001 |
| | Chromium | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.00065 J | < 0.00039 | < 0.0025 | < 0.01 | < 0.01 | < 0.01 |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.005 | < 0.00030 | < 0.00030 | 0.035 | 0.0312 | 0.0275 | 0.0255 |
| | Lead | mg/l | < 0.005 | NA | NA | < 0.000046 | < 0.000046 | < 0.0013 | < 0.005 | < 0.005 | < 0.005 |
| | Lithium | mg/l | < 0.05 | < 0.05 | < 0.03 | < 0.00078 | < 0.00078 | < 0.005 | < 0.05 | < 0.05 | < 0.05 |
| | Mercury | mg/l | 0.000061 J | < 0.0005 | < 0.0005 | < 0.00014 | -- | < 0.0002 | < 0.0005 | < 0.0005 | < 0.0005 |
| | Molybdenum | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.00095 | < 0.00095 | < 0.015 | < 0.01 | < 0.01 | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 0.202 U | 0 U | 0.707 U | 1.11 U | 0.207 U | 0.0652 U | 3.01 | 0.871 U | 0.307 U |
| | Selenium | mg/l | < 0.01 | 0.0019 J | < 0.01 | < 0.0013 | 0.0015 J | < 0.0013 | < 0.01 | < 0.01 | < 0.01 |
| Thallium | mg/l | < 0.001 | NA | NA | 0.000089 J | < 0.000052 | < 0.0005 | < 0.001 | < 0.001 | < 0.001 | |
| Field | Conductivity | µS/cm | 51.7 | 54.6 | 58.6 | NA | NA | 38.33 | 38.6 | 38.54 | 38.3 |
| | Dissolved Oxygen | mg/l | 6.61 | 6.73 | 6.25 | NA | NA | 5.67 | 5.71 | 6.23 | 6.62 |
| | Oxidation Reduction Potential | mV | 169.8 | 214.8 | 167.4 | NA | NA | 106.4 | 79.5 | 56.8 | 104.6 |
| | Temperature | C | 17.69 | 17.72 | 19.98 | NA | NA | 18.08 | 21.32 | 19.64 | 19.68 |
| | Turbidity | ntu | 0.3 | 0.5 | 0.33 | NA | NA | 0.77 | 1.72 | 2.79 | 1.23 |

| Analyte | Units | YGWA-30I | YGWA-30I | YGWA-30I | YGWA-30I | YGWA-30I | YGWA-30I | YGWA-30I | YGWA-30I | YGWA-30I | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | YGWA-30I (011617) | YGWA-30I (022117) | YGWA-30I (042617) | YGWA-30I (063017) | YGWA-30I (100417) | YGWA-30I (032718) | YGWA-30I (061118) | YGWA-30I (100218) | YGWA-30I (022619) | |
| | | 1/16/2017 | 2/21/2017 | 4/26/2017 | 6/30/2017 | 10/4/2017 | 3/27/2018 | 6/11/2018 | 10/2/2018 | 2/26/2019 | |
| Appendix III | pH | SU | 5.72 | 5.67 | 5.56 | 5.72 | 5.87 | 5.83 | 5.69 | 5.39 | 5.77 |
| | Boron | mg/l | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | NA | 0.014 J | < 0.04 | NA |
| | Calcium | mg/l | 1.23 | 1.25 | 1.03 | 1.13 | 1.09 | NA | 1.1 | 1.1 | NA |
| | Chloride | mg/l | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | NA | 2 | 1.8 | NA |
| | Fluoride | mg/l | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| | Sulfate | mg/l | < 1.4 | 1.4 | 1.4 | < 1.5 | 1.4 | NA | 1.1 | 1 | NA |
| | TDS | mg/l | 47 | < 25 | 55 | 42 | 31 | NA | 59 | 57 | NA |
| Appendix IV | Antimony | mg/l | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 | NA | NA | < 0.003 |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.0071 J | 0.0077 J | 0.0074 J | 0.0076 J | NA | < 0.01 | 0.007 J | 0.0069 J | 0.007 J |
| | Beryllium | mg/l | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 | NA | NA | 0.000072 J |
| | Cadmium | mg/l | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | NA | NA | < 0.001 |
| | Chromium | mg/l | < 0.01 | < 0.01 | 0.0016 J | < 0.01 | NA | < 0.01 | NA | NA | < 0.01 |
| | Cobalt | mg/l | 0.0245 | 0.0272 | 0.0244 | 0.0233 | NA | 0.023 | 0.023 | 0.022 | 0.021 |
| | Lead | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA | < 0.005 | NA | NA | < 0.005 |
| | Lithium | mg/l | < 0.05 | < 0.05 | < 0.05 | < 0.05 | NA | 0.0011 J | 0.0012 J | < 0.05 | 0.0011 J |
| | Mercury | mg/l | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | NA | < 0.0005 | NA | NA | 0.000068 J |
| | Molybdenum | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 0.284 U | 0.503 U | 0.204 U | 0.738 U | NA | 0.31 U | 0.608 U | 0.97 U | 0.524 U |
| | Selenium | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | NA | NA | < 0.01 |
| Thallium | mg/l | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | NA | NA | < 0.001 | |
| Field | Conductivity | µS/cm | 38.3 | 40.8 | 40.1 | 39.1 | NA | 39.43 | NA | NA | 35.6 |
| | Dissolved Oxygen | mg/l | 6.1 | 6.3 | 6.28 | 6 | NA | 6.77 | NA | NA | 6.75 |
| | Oxidation Reduction Potential | mV | 111.6 | 122.9 | 150.3 | 71.1 | NA | 83.88 | NA | NA | 138.2 |
| | Temperature | C | 16.92 | 17.14 | 18.25 | 18.75 | NA | 17.1 | NA | NA | 17.54 |
| | Turbidity | ntu | 0.63 | 3.88 | 0.45 | 0.32 | NA | 2.22 | NA | NA | 0.3 |

| Analyte | Units | YGWA-30I | YGWA-30I | YGWA-30I | YGWA-30I | YGWC-26I | YGWC-26I | YGWC-26I | YGWC-26I | YGWC-26I | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| | | YGWA-30I (040119) | YGWA-30I (092519) | YGWA-30I (021220) | YGWA-30I (031920) | YGWC-26I (060816) | YGWC-26I (080116) | YGWC-26I (092016) | YGWC-26I (110716) | YGWC-26I (011817) | |
| | | 4/1/2019 | 9/25/2019 | 2/12/2020 | 3/19/2020 | 6/8/2016 | 8/1/2016 | 9/20/2016 | 11/7/2016 | 1/18/2017 | |
| Appendix III | pH | SU | 5.62 | 5.69 | 5.80 | 6.00 | 5.85 | 5.83 | 5.89 | 5.91 | 5.84 |
| | Boron | mg/l | < 0.04 | < 0.04 | NA | 0.0052 J | 0.97 | 0.932 | 1.04 | 0.852 | 0.972 |
| | Calcium | mg/l | 1.3 | 1.1 | NA | 1.2 | 15 | 14.5 | 15.3 | 13.8 | 15.1 |
| | Chloride | mg/l | 1.7 | 1.6 | NA | 1.8 | 19 | 17 | 18 | 17 | 19 |
| | Fluoride | mg/l | < 0.3 | < 0.3 | < 0.050 | < 0.050 | 0.094 J | 0.08 J | 0.05 J | < 0.3 | 0.11 J |
| | Sulfate | mg/l | 0.96 J | 0.81 J | NA | 1.6 | 81 | 75 | 78 | 81 | 95 |
| | TDS | mg/l | 54 | 51 | NA | 47.0 | 220 | 211 | 217 | 301 | 265 |
| Appendix IV | Antimony | mg/l | NA | NA | < 0.00027 | < 0.00027 | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 |
| | Arsenic | mg/l | < 0.005 | < 0.005 | 0.0032 JB | < 0.00035 | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.0072 J | 0.0066 J | 0.0073 J | 0.0074 J | 0.068 | 0.0688 | 0.0663 | 0.065 | 0.0625 |
| | Beryllium | mg/l | < 0.003 | < 0.003 | < 0.000074 | < 0.000074 | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 |
| | Cadmium | mg/l | < 0.001 | < 0.0025 | < 0.00011 | < 0.00011 | < 0.0025 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| | Chromium | mg/l | < 0.01 | < 0.01 | < 0.00039 | < 0.00039 | < 0.0025 | 0.0008 J | < 0.01 | < 0.01 | < 0.01 |
| | Cobalt | mg/l | 0.022 | 0.016 | 0.014 | 0.014 | < 0.0025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Lead | mg/l | NA | NA | < 0.000046 | < 0.000046 | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | Lithium | mg/l | 0.001 J | 0.0011 J | 0.0013 J | 0.0012 J | 0.007 | 0.0068 J | 0.0062 J | 0.0057 J | 0.0066 J |
| | Mercury | mg/l | 0.000082 J | < 0.0005 | < 0.00014 | NA | < 0.0002 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 |
| | Molybdenum | mg/l | < 0.01 | < 0.01 | < 0.00095 | < 0.00095 | < 0.015 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 1.02 U | 1.02 U | 0.301 | 1.000 | 6.68 | 0.606 U | 0.565 U | 0.773 U | 0.263 U |
| | Selenium | mg/l | < 0.01 | < 0.01 | < 0.0013 | < 0.0013 | 0.0016 | 0.0023 J | 0.0022 J | 0.0017 J | 0.002 J |
| Thallium | mg/l | NA | NA | < 0.000052 | < 0.000052 | < 0.0005 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | |
| Field | Conductivity | µS/cm | 36.8 | 37.6 | NA | NA | 310.87 | 303.3 | 298.37 | 309.4 | 334.3 |
| | Dissolved Oxygen | mg/l | 7.08 | 6.92 | NA | NA | 0.18 | 0.09 | 0.76 | 0.19 | 0.28 |
| | Oxidation Reduction Potential | mV | 163.3 | 143.8 | NA | NA | 58.9 | 33.8 | 31.53 | 91.2 | 26.8 |
| | Temperature | C | 17.27 | 21.17 | NA | NA | 21.73 | 20.25 | 22.8 | 20.18 | 19.15 |
| | Turbidity | ntu | 1 | 0.42 | NA | NA | 4.29 | 3.79 | 1.65 | 4.69 | 2.35 |

| Analyte | Units | YGWC-26I | YGWC-26I | YGWC-26I | YGWC-26I | YGWC-26I | YGWC-26I | YGWC-26I | YGWC-26I | YGWC-26I | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | YGWC-26I (022117) | YGWC-26I (050817) | YGWC-26I (071017) | YGWC-26I (101017) | YGWC-26I (033018) | YGWC-26I (061318) | YGWC-26I (100218) | YGWC-26I (022719) | YGWC-26I (040219) | |
| | | 2/21/2017 | 5/8/2017 | 7/10/2017 | 10/10/2017 | 3/30/2018 | 6/13/2018 | 10/2/2018 | 2/27/2019 | 4/2/2019 | |
| Appendix III | pH | SU | 5.79 | 5.84 | 5.92 | 5.84 | 6.19 | 5.82 | 5.81 | 5.79 | 5.87 |
| | Boron | mg/l | 0.972 | 1.05 | 0.855 | 0.887 | NA | 0.86 | 0.93 | NA | 0.9 |
| | Calcium | mg/l | 14.6 | 15.2 | 17.4 | 15.5 | NA | 15.5 | 14.7 | NA | 16.1 J |
| | Chloride | mg/l | 18 | 18 | 19 | 19 | NA | 18.1 | 18.3 | NA | 17.9 |
| | Fluoride | mg/l | < 0.3 | 0.08 J | < 0.3 | < 0.3 | < 0.3 | 0.088 J | < 0.3 | < 0.3 | 0.071 J |
| | Sulfate | mg/l | 80 | 84 | 84 | 82 | NA | 76.5 | 83.9 | NA | 77.6 |
| | TDS | mg/l | 158 | 207 | 219 | 194 | NA | 228 | 227 | NA | 223 |
| Appendix IV | Antimony | mg/l | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 | NA | NA | < 0.003 | NA |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | NA | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.0655 | 0.0699 | 0.0691 | NA | 0.063 | 0.064 | 0.066 | 0.065 | 0.065 |
| | Beryllium | mg/l | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 | NA | NA | < 0.003 | < 0.003 |
| | Cadmium | mg/l | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | NA | NA | < 0.001 | < 0.001 |
| | Chromium | mg/l | < 0.01 | 0.0006 J | < 0.01 | NA | < 0.01 | NA | NA | 0.0049 J | < 0.01 |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Lead | mg/l | < 0.005 | < 0.005 | < 0.005 | NA | < 0.005 | NA | NA | < 0.005 | NA |
| | Lithium | mg/l | 0.0067 J | 0.007 J | 0.0064 J | NA | 0.0068 J | 0.0071 J | 0.0064 J | 0.0069 J | 0.0064 J |
| | Mercury | mg/l | < 0.0005 | < 0.0005 | < 0.0005 | NA | < 0.0005 | NA | NA | 0.000051 J | 0.000051 J |
| | Molybdenum | mg/l | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 1.06 U | 0.291 U | 0.912 | NA | 0.23 U | 0.427 U | 1.41 U | 0.614 U | 0.84 U |
| | Selenium | mg/l | 0.0018 J | < 0.01 | 0.002 J | NA | < 0.01 | NA | NA | 0.002 J | 0.0017 J |
| Thallium | mg/l | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | NA | NA | < 0.001 | NA | |
| Field | Conductivity | µS/cm | 299.7 | 308.6 | 304.8 | NA | 316.7 | NA | NA | 285.4 | 305.5 |
| | Dissolved Oxygen | mg/l | 0.28 | 0.18 | 0.3 | NA | 0.14 | NA | NA | 0.14 | 0.23 |
| | Oxidation Reduction Potential | mV | 124.6 | 118 | 33 | NA | 22.25 | NA | NA | 104.4 | 96.1 |
| | Temperature | C | 19.15 | 20.07 | 22.45 | NA | 19.75 | NA | NA | 18.77 | 19.19 |
| | Turbidity | ntu | 3.68 | 1.54 | 2.99 | NA | 4.34 | NA | NA | 1.2 | 4.8 |

| Analyte | Units | YGWC-26I | YGWC-26I | YGWC-26I | YGWC-26S | YGWC-26S | YGWC-26S | YGWC-26S | YGWC-26S | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| | | YGWC-26I (092519) | YGWC-26I (021320) | YGWC-26I (032020) | YGWC-26S (060816) | YGWC-26S (080116) | YGWC-26S (092016) | YGWC-26S (110716) | YGWC-26S (011817) | |
| | | 9/25/2019 | 2/13/2020 | 3/20/2020 | 6/8/2016 | 8/1/2016 | 9/20/2016 | 11/7/2016 | 1/18/2017 | |
| Appendix III | pH | SU | 5.79 | 5.93 | 5.94 | 5.24 | 5.17 | 5.35 | 5.35 | 5.2 |
| | Boron | mg/l | 0.86 | NA | 0.94 | 0.62 | 0.643 | 0.644 | 0.621 | 0.607 |
| | Calcium | mg/l | 15.6 | NA | 17.2 | 13 | 12.2 | 12.2 | 12.1 | 11.5 |
| | Chloride | mg/l | 17.1 | NA | 17.7 | 18 | 16 | 18 | 16 | 17 |
| | Fluoride | mg/l | 0.064 J | < 0.050 | 0.071 J | < 0.2 | 0.24 J | 0.03 J | 0.44 | < 0.3 |
| | Sulfate | mg/l | 80.1 | NA | 84.7 | 110 | 96 | 100 | 100 | 100 |
| | TDS | mg/l | 225 | NA | 211 (178) | 200 | 191 | 213 | 284 | 158 |
| Appendix IV | Antimony | mg/l | NA | 0.00052 J | 0.00059 JB | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 |
| | Arsenic | mg/l | < 0.005 | < 0.00035 | < 0.00035 | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.063 | 0.060 | 0.063 | 0.029 | 0.0316 | 0.0298 | 0.0289 | 0.0278 |
| | Beryllium | mg/l | < 0.003 | 0.00014 J | < 0.000074 | < 0.0025 | 0.0002 J | 0.0001 J | 0.0001 J | 0.0002 J |
| | Cadmium | mg/l | < 0.0025 | < 0.00011 | < 0.00011 | < 0.0025 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| | Chromium | mg/l | 0.00048 J | 0.00044 J | 0.00093 J | < 0.0025 | 0.0026 J | 0.001 J | 0.0013 J | 0.002 J |
| | Cobalt | mg/l | < 0.005 | < 0.00030 | < 0.00030 | 0.0032 | 0.003 J | 0.003 J | 0.0025 J | 0.0022 J |
| | Lead | mg/l | NA | < 0.000046 | 0.000071 J | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | Lithium | mg/l | 0.0073 J | 0.0073 J | 0.0072 J | < 0.005 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| | Mercury | mg/l | < 0.0005 | < 0.00014 | -- | < 0.0002 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 |
| | Molybdenum | mg/l | < 0.01 | < 0.00095 | < 0.00095 | < 0.015 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 1.01 U | 1.86 | 2.03 | 0.677 | 0.457 U | 0.555 U | 0.647 U | 0.6 U |
| | Selenium | mg/l | 0.0019 J | 0.0019 J | 0.0022 J | 0.0003 J | 0.0014 J | < 0.01 | < 0.01 | 0.0012 J |
| | Thallium | mg/l | NA | < 0.000052 | < 0.000052 | < 0.0005 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Field | Conductivity | µS/cm | 302.5 | NA | NA | 312.6 | 299.6 | 307.38 | 298 | 320.6 |
| | Dissolved Oxygen | mg/l | 0.35 | NA | NA | 0.5 | 1.02 | 1.12 | 1.35 | 1.09 |
| | Oxidation Reduction Potential | mV | 129.1 | NA | NA | 105.13 | 32.2 | 72.2 | 125.6 | 81 |
| | Temperature | C | 23.52 | NA | NA | 20.12 | 24.47 | 20.84 | 21.33 | 19.68 |
| | Turbidity | ntu | 1.71 | NA | NA | 4.18 | 2.25 | 1.92 | 2.05 | 2.48 |

| Analyte | Units | YGWC-26S | YGWC-26S | YGWC-26S | YGWC-26S | YGWC-26S | YGWC-26S | YGWC-26S | YGWC-26S | YGWC-26S | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | YGWC-26S (022117) | YGWC-26S (050317) | YGWC-26S (071017) | YGWC-26S (101017) | YGWC-26S (033018) | YGWC-26S (061318) | YGWC-26S (100218) | YGWC-26S (022719) | YGWC-26S (040219) | |
| | | 2/21/2017 | 5/3/2017 | 7/10/2017 | 10/10/2017 | 3/30/2018 | 6/13/2018 | 10/2/2018 | 2/27/2019 | 4/2/2019 | |
| Appendix III | pH | SU | 5.14 | 5.28 | 5.25 | 5.17 | 5.19 | 5.12 | 4.95 | 5 | 5.13 |
| | Boron | mg/l | 0.624 | 0.676 | 0.58 | 0.612 | NA | 0.67 | 0.62 | NA | 0.63 |
| | Calcium | mg/l | 11.7 | 11.9 | 12.7 | 11.4 | NA | 12.5 | 12.4 J | NA | 11.9 J |
| | Chloride | mg/l | 16 | 17 | 15 | 15 | NA | 14.2 | 14 | NA | 13.5 |
| | Fluoride | mg/l | < 0.3 | 0.16 J | < 0.3 | < 0.3 | 0.35 | 0.044 J | < 0.3 | < 0.3 | < 0.3 |
| | Sulfate | mg/l | 96 | 100 | 100 | 97 | NA | 93.3 | 99 | NA | 94.5 |
| | TDS | mg/l | 137 | 269 | 183 | 179 | NA | 196 | 191 | NA | 224 |
| Appendix IV | Antimony | mg/l | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 | NA | NA | < 0.003 | NA |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | NA | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.0282 | 0.0282 | 0.0274 | NA | 0.026 | 0.026 | 0.026 | 0.027 | 0.027 |
| | Beryllium | mg/l | 0.0002 J | 0.0002 J | 0.0002 J | NA | < 0.003 | NA | NA | 0.00018 J | 0.00015 J |
| | Cadmium | mg/l | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | NA | NA | < 0.001 | < 0.001 |
| | Chromium | mg/l | 0.0019 J | 0.0037 J | < 0.01 | NA | < 0.01 | NA | NA | 0.0055 J | 0.003 J |
| | Cobalt | mg/l | 0.0022 J | 0.002 J | 0.002 J | NA | < 0.01 | 0.0017 J | 0.002 J | 0.0017 J | 0.0022 J |
| | Lead | mg/l | < 0.005 | < 0.005 | 0.00008 J | NA | < 0.005 | NA | NA | < 0.005 | NA |
| | Lithium | mg/l | < 0.05 | < 0.05 | < 0.05 | NA | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| | Mercury | mg/l | < 0.0005 | < 0.0005 | < 0.0005 | NA | < 0.0005 | NA | NA | 0.000049 J | 0.000066 J |
| | Molybdenum | mg/l | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 1.11 U | 0.654 U | 0.649 U | NA | 0.501 U | 1.09 U | 0.747 U | 1.27 | 0.708 U |
| | Selenium | mg/l | 0.0014 J | < 0.01 | < 0.01 | NA | < 0.01 | NA | NA | < 0.01 | < 0.01 |
| Thallium | mg/l | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | NA | NA | < 0.001 | NA | |
| Field | Conductivity | µS/cm | 284.1 | 289.1 | 275 | NA | 289.96 | NA | NA | 251.5 | 276.1 |
| | Dissolved Oxygen | mg/l | 0.6 | 1.26 | 1.92 | NA | 1.62 | NA | NA | 1.48 | 1.02 |
| | Oxidation Reduction Potential | mV | 117.4 | 188.5 | 72.6 | NA | 94.83 | NA | NA | 190.9 | 153.8 |
| | Temperature | C | 20.93 | 21.53 | 23.61 | NA | 18.87 | NA | NA | 18.66 | 19.18 |
| | Turbidity | ntu | 4.81 | 2.31 | 4.4 | NA | 4.5 | NA | NA | 2.4 | 4.6 |

| Analyte | Units | YGWC-26S | YGWC-26S | YGWC-26S | YGWC-27S | YGWC-27S | YGWC-27S | YGWC-27S | YGWC-27S | YGWC-27S | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| | | YGWC-26S (092519) | YGWC-26S (021320) | YGWC-26S (031920) | YGWC-27S (060816) | YGWC-27S (080116) | YGWC-27S (092016) | YGWC-27S (110716) | YGWC-27S (011917) | YGWC-27S (022217) | |
| | | 9/25/2019 | 2/13/2020 | 3/19/2020 | 6/8/2016 | 8/1/2016 | 9/20/2016 | 11/7/2016 | 1/19/2017 | 2/22/2017 | |
| Appendix III | pH | SU | 5.24 | 5.29 | 5.46 | 6.24 | 6.12 | 6.3 | 6.25 | 6.2 | 6.14 |
| | Boron | mg/l | 0.63 | NA | 0.73 | 1.3 | 1.36 | 1.69 | 1.35 | 1.15 | 1.3 |
| | Calcium | mg/l | 11.6 | NA | 13.0 | 44 | 36.3 | 39.5 | 34.9 | 37 | 37.6 |
| | Chloride | mg/l | 14.4 | NA | 15.4 | 22 | 21 | 22 | 24 | 22 | 21 |
| | Fluoride | mg/l | < 0.3 | < 0.050 | < 0.050 | 0.12 J | 0.22 J | 0.32 | < 0.3 | 0.25 J | 0.21 J |
| | Sulfate | mg/l | 97 | NA | 99.4 | 26 | 27 | 21 | 24 | 25 | 24 |
| | TDS | mg/l | 190 | NA | 194 | 210 | 209 | 224 | 291 | 215 | 262 |
| Appendix IV | Antimony | mg/l | NA | 0.0016 J | 0.0017 JB | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 |
| | Arsenic | mg/l | < 0.005 | < 0.00035 | < 0.00035 | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.026 | 0.025 | 0.027 | 0.12 | 0.115 | 0.108 | 0.102 | 0.102 | 0.106 |
| | Beryllium | mg/l | 0.00011 J | 0.00015 J | 0.00012 J | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 |
| | Cadmium | mg/l | < 0.0025 | < 0.00011 | < 0.00011 | < 0.0025 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| | Chromium | mg/l | 0.0012 J | 0.0012 J | 0.0018 J | < 0.0025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Cobalt | mg/l | 0.0033 J | 0.0019 J | 0.0021 J | 0.0024 J | 0.0026 J | 0.0026 J | 0.0025 J | 0.0024 J | 0.0023 J |
| | Lead | mg/l | NA | < 0.000046 | 0.00010 J | < 0.0013 | < 0.005 | 0.0002 J | < 0.005 | < 0.005 | < 0.005 |
| | Lithium | mg/l | < 0.03 | < 0.00078 | < 0.00078 | < 0.005 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| | Mercury | mg/l | < 0.0005 | < 0.00014 | NA | < 0.0002 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 |
| | Molybdenum | mg/l | < 0.01 | < 0.00095 | < 0.00095 | < 0.015 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 1.18 U | 0.178 | 0.796 | 0.257 U | 0.453 U | 1.27 | 0.877 U | 0.764 U | 1.26 U |
| | Selenium | mg/l | < 0.01 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Thallium | mg/l | NA | 0.000057 J | 0.000055 J | 0.00012 J | 0.0001 J | < 0.001 | < 0.001 | < 0.001 | < 0.001 | |
| Field | Conductivity | µS/cm | 288.8 | NA | NA | 434 | 436.2 | 447.87 | 434.4 | 471.7 | 417.6 |
| | Dissolved Oxygen | mg/l | 0.69 | NA | NA | 0.11 | 0.11 | 0.07 | 0.15 | 0.15 | 0.16 |
| | Oxidation Reduction Potential | mV | 169 | NA | NA | 77.5 | 40.9 | -9.87 | 74 | 2.9 | 114.1 |
| | Temperature | C | 22.16 | NA | NA | 21.33 | 22.45 | 20.19 | 19.41 | 18.88 | 19.42 |
| | Turbidity | ntu | 2.37 | NA | NA | NA | 1.05 | 4.78 | 4.5 | 3.55 | 2.18 |

| Analyte | Units | YGWC-27S | YGWC-27S | YGWC-27S | YGWC-27S | YGWC-27S | YGWC-27S | YGWC-27S | YGWC-27S | YGWC-27S | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| | | YGWC-27S (050817) | YGWC-27S (063017) | YGWC-27S (100617) | YGWC-27S (032918) | YGWC-27S (061218) | YGWC-27S (100218) | YGWC-27S (022719) | YGWC-27S (040119) | YGWC-27S (092619) | |
| | | 5/8/2017 | 6/30/2017 | 10/6/2017 | 3/29/2018 | 6/12/2018 | 10/2/2018 | 2/27/2019 | 4/1/2019 | 9/26/2019 | |
| Appendix III | pH | SU | 6.11 | 6.17 | 6.13 | 6.25 | 6.22 | 5.99 | 6.26 | 6.4 | 6.22 |
| | Boron | mg/l | 1.51 | 1.47 | 1.31 | NA | 1.6 | 1.4 | NA | 1.4 | 1.5 |
| | Calcium | mg/l | 35.7 | 36.2 | 39.8 | NA | 36.2 | 39.1 | NA | 38 | 37.5 |
| | Chloride | mg/l | 22 | 21 | 21 | NA | 19.8 | 19.9 | NA | 19.7 | 19.6 |
| | Fluoride | mg/l | 0.19 J | 0.2 J | < 0.3 | 0.49 | 0.037 J | < 0.3 | 0.14 J | 0.088 J | 0.22 J |
| | Sulfate | mg/l | 23 | 23 | 23 | NA | 18.1 | 20.2 | NA | 18.3 | 18.2 |
| | TDS | mg/l | 187 | 209 | 183 | NA | 208 | 206 | NA | 221 | 225 |
| Appendix IV | Antimony | mg/l | < 0.003 | < 0.003 | NA | < 0.003 | NA | NA | < 0.003 | NA | NA |
| | Arsenic | mg/l | < 0.005 | < 0.005 | NA | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | Barium | mg/l | 0.102 | 0.0963 | NA | 0.097 | 0.095 | 0.1 | 0.096 | 0.099 | 0.099 |
| | Beryllium | mg/l | < 0.003 | < 0.003 | NA | < 0.003 | NA | NA | < 0.003 | < 0.003 | < 0.003 |
| | Cadmium | mg/l | < 0.001 | < 0.001 | NA | < 0.001 | NA | NA | < 0.001 | < 0.001 | < 0.0025 |
| | Chromium | mg/l | < 0.01 | < 0.01 | NA | < 0.01 | NA | NA | 0.015 | < 0.01 | < 0.01 |
| | Cobalt | mg/l | 0.0023 J | 0.0022 J | NA | < 0.01 | 0.0025 J | 0.0023 J | 0.0024 J | 0.0023 J | 0.0021 J |
| | Lead | mg/l | < 0.005 | < 0.005 | NA | < 0.005 | NA | NA | < 0.005 | NA | NA |
| | Lithium | mg/l | < 0.05 | < 0.05 | NA | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.03 |
| | Mercury | mg/l | < 0.0005 | < 0.0005 | NA | < 0.0005 | NA | NA | 0.000049 J | 0.000041 J | < 0.0005 |
| | Molybdenum | mg/l | < 0.01 | < 0.01 | NA | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 0.789 U | 0.592 U | NA | 0.916 U | 0.666 U | 0.774 U | 1.19 | 0.777 U | 1.01 U |
| | Selenium | mg/l | < 0.01 | < 0.01 | NA | < 0.01 | NA | NA | < 0.01 | < 0.01 | < 0.01 |
| Thallium | mg/l | 0.0001 J | 0.0001 J | NA | < 0.001 | NA | NA | < 0.001 | NA | NA | |
| Field | Conductivity | µS/cm | 429.2 | 415.2 | NA | 412.32 | NA | NA | 402.4 | 396 | 421.79 |
| | Dissolved Oxygen | mg/l | 0.19 | 0.2 | NA | 1.19 | NA | NA | 0.17 | 0.27 | 0.32 |
| | Oxidation Reduction Potential | mV | 14.4 | 90 | NA | 57.78 | NA | NA | 224.4 | 134.4 | 90.6 |
| | Temperature | C | 19.05 | 19.85 | NA | 19.74 | NA | NA | 18.43 | 19.02 | 24.55 |
| | Turbidity | ntu | 1.46 | 3.95 | NA | 3.03 | NA | NA | 3.44 | 4.67 | 1.59 |

| Analyte | Units | YGWC-27S | YGWC-27S | YGWC-27I | YGWC-27I | YGWC-27I | YGWC-27I | YGWC-27I | YGWC-27I | YGWC-27I | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| | | YGWC-27S (021320) | YGWC-27S (032020) | YGWC-27I (060816) | YGWC-27I (080116) | YGWC-27I (092016) | YGWC-27I (110716) | YGWC-27I (011817) | YGWC-27I (022317) | YGWC-27I (050817) | |
| | | 2/13/2020 | 3/20/2020 | 6/8/2016 | 8/1/2016 | 9/20/2016 | 11/7/2016 | 1/18/2017 | 2/23/2017 | 5/8/2017 | |
| Appendix III | pH | SU | 6.31 | 6.18 | 6.32 | 6.34 | 6.36 | 6.3 | 6.31 | 6.18 | 6.24 |
| | Boron | mg/l | NA | 1.4 | 2.2 | 2 | 2.02 | 1.91 | 1.69 | 1.76 | 2 |
| | Calcium | mg/l | NA | 42.1 | 25 | 21.4 | 26.3 | 26.1 | 25.6 | 28.2 | 27.2 |
| | Chloride | mg/l | NA | 17.7 | 14 | 13 | 13 | 14 | 14 | 14 | 14 |
| | Fluoride | mg/l | 0.11 J | 0.097 J | 0.086 J | 0.14 J | < 0.3 | < 0.3 | < 0.3 | < 0.3 | 0.07 J |
| | Sulfate | mg/l | NA | 21.1 | 3.2 | 3.6 | 5.6 | 5.4 | 3.5 | 4.9 | 3.9 |
| | TDS | mg/l | NA | 182 | 190 | 191 | 205 | 264 | 167 | 253 | 174 |
| Appendix IV | Antimony | mg/l | < 0.00027 | 0.00030 JB | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 |
| | Arsenic | mg/l | < 0.00035 | < 0.00035 | 0.0011 J | 0.0009 J | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.0006 J |
| | Barium | mg/l | 0.097 | 0.095 | 0.081 | 0.0838 | 0.0687 | 0.0639 | 0.0645 | 0.0728 | 0.0721 |
| | Beryllium | mg/l | < 0.000074 | < 0.000074 | < 0.0025 | < 0.003 | 0.00009 J | 0.0001 J | 0.0002 J | 0.0002 J | 0.0002 J |
| | Cadmium | mg/l | < 0.00011 | < 0.00011 | < 0.0025 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| | Chromium | mg/l | < 0.00039 | 0.00050 J | < 0.0025 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Cobalt | mg/l | 0.0026 J | 0.0022 J | 0.0016 J | 0.0014 J | 0.002 J | 0.0016 J | 0.0017 J | 0.002 J | 0.0029 J |
| | Lead | mg/l | 0.000062 J | 0.000085 J | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | Lithium | mg/l | < 0.00078 | < 0.00078 | 0.0067 | 0.008 J | 0.0111 J | 0.0097 J | 0.01 J | 0.0099 J | 0.0086 J |
| | Mercury | mg/l | < 0.00014 | NA | < 0.0002 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 |
| | Molybdenum | mg/l | < 0.00095 | < 0.00095 | 0.0011 J | 0.0018 J | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0011 J |
| | Combined Radium - 226/228 | pCi/l | 0.961 | 1.50 | 1.81 | 3.79 | 3.12 | 2.66 | 3.44 | 4.73 | 3.87 |
| | Selenium | mg/l | < 0.0013 | < 0.0013 | < 0.0013 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Thallium | mg/l | 0.00010 J | 0.00011 J | < 0.0005 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | |
| Field | Conductivity | µS/cm | NA | NA | 336.68 | 330 | 336.3 | 336.8 | 365.6 | 330 | 344.8 |
| | Dissolved Oxygen | mg/l | NA | NA | 0.21 | 0.19 | 0.29 | 0.29 | 0.2 | 0.45 | 0.15 |
| | Oxidation Reduction Potential | mV | NA | NA | -103.6 | -62.2 | -28.61 | 5.1 | -76.9 | 45 | -79.9 |
| | Temperature | C | NA | NA | 20.93 | 21.33 | 21.24 | 18.87 | 18.79 | 17.9 | 19.8 |
| | Turbidity | ntu | NA | NA | 3.87 | 0.78 | 2.22 | 1.71 | 1.59 | 2.21 | 0.81 |

| Analyte | Units | YGWC-271 | YGWC-271 | YGWC-271 | YGWC-271 | YGWC-271 | YGWC-271 | YGWC-271 | YGWC-271 | YGWC-271 | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| | | YGWC-271 (063017) | YGWC-271 (100917) | YGWC-271 (032918) | YGWC-271 (061318) | YGWC-271 (100218) | YGWC-271 (022719) | YGWC-271 (040119) | YGWC-271 (092619) | YGWC-271 (021320) | |
| | | 6/30/2017 | 10/9/2017 | 3/29/2018 | 6/13/2018 | 10/2/2018 | 2/27/2019 | 4/1/2019 | 9/26/2019 | 2/13/2020 | |
| Appendix III | pH | SU | 6.21 | 6.26 | 6.36 | 6.28 | 5.9 | 6.31 | 6.43 | 6.3 | 6.40 |
| | Boron | mg/l | 2.28 | 1.82 | NA | 2.2 | 1.9 | NA | 2.4 | 1.9 | NA |
| | Calcium | mg/l | 27.2 | 27.3 | NA | 29.4 | 29.2 | NA | 27.4 | 24.2 | NA |
| | Chloride | mg/l | 14 | 14 | NA | 13.1 | 13.8 | NA | 14.2 | 14.3 | NA |
| | Fluoride | mg/l | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | 0.034 J | 0.14 J | < 0.050 |
| | Sulfate | mg/l | 5 | 5.1 | NA | 6.1 | 6.1 | NA | 4.1 | 4.2 | NA |
| | TDS | mg/l | 193 | 185 | NA | 219 | 227 | NA | 198 | 198 | NA |
| Appendix IV | Antimony | mg/l | < 0.003 | NA | < 0.003 | NA | NA | < 0.003 | NA | NA | < 0.00027 |
| | Arsenic | mg/l | < 0.005 | NA | 0.0006 J | < 0.005 | < 0.005 | 0.00069 J | < 0.005 | 0.00058 J | 0.00055 J |
| | Barium | mg/l | 0.0666 | NA | 0.062 | 0.063 | 0.062 | 0.066 | 0.066 | 0.065 | 0.063 |
| | Beryllium | mg/l | 0.0002 J | NA | < 0.003 | NA | NA | 0.00022 J | 0.00022 J | 0.0002 J | 0.00021 J |
| | Cadmium | mg/l | < 0.001 | NA | < 0.001 | NA | NA | < 0.001 | < 0.001 | < 0.0025 | < 0.00011 |
| | Chromium | mg/l | < 0.01 | NA | < 0.01 | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.00039 |
| | Cobalt | mg/l | 0.0044 J | NA | 0.051 | 0.092 | 0.078 | 0.035 | 0.025 | 0.014 | 0.012 |
| | Lead | mg/l | < 0.005 | NA | < 0.005 | NA | NA | < 0.005 | NA | NA | < 0.000046 |
| | Lithium | mg/l | 0.0108 J | NA | 0.011 J | 0.014 J | 0.012 J | 0.0096 J | 0.0082 J | 0.0075 J | 0.0079 J |
| | Mercury | mg/l | < 0.0005 | NA | < 0.0005 | NA | NA | 0.000054 J | 0.000045 J | < 0.0005 | < 0.00014 |
| | Molybdenum | mg/l | < 0.01 | NA | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0013 J | 0.0014 J |
| | Combined Radium - 226/228 | pCi/l | 2.85 | NA | 1.41 | 3.69 | 4.5 | 4.69 | 5 | 3.37 | 4.48 |
| | Selenium | mg/l | < 0.01 | NA | < 0.01 | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.0013 |
| Thallium | mg/l | < 0.001 | NA | < 0.001 | NA | NA | < 0.001 | NA | NA | < 0.000052 | |
| Field | Conductivity | µS/cm | 334.7 | NA | 342.23 | NA | NA | 340.1 | 322.5 | 335.94 | NA |
| | Dissolved Oxygen | mg/l | 0.19 | NA | 0.21 | NA | NA | 0.21 | 0.3 | 0.13 | NA |
| | Oxidation Reduction Potential | mV | 7.8 | NA | -8.62 | NA | NA | 38.6 | 6.8 | 51.3 | NA |
| | Temperature | C | 20.24 | NA | 19.46 | NA | NA | 19.31 | 18.95 | 21.57 | NA |
| | Turbidity | ntu | 0.92 | NA | 1.49 | NA | NA | 0.95 | 1.87 | 0.72 | NA |

| Analyte | Units | YGWC-271 | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------|
| | | YGWC-271 (032020) | YGWC-28S (060916) | YGWC-28S (080216) | YGWC-28S (092116) | YGWC-28S (110716) | YGWC-28S (011817) | YGWC-28S (022117) | YGWC-28S (050517) | YGWC-28S (070717) | |
| | | 3/20/2020 | 6/9/2016 | 8/2/2016 | 9/21/2016 | 11/7/2016 | 1/18/2017 | 2/21/2017 | 5/5/2017 | 7/7/2017 | |
| Appendix III | pH | SU | 6.32 | 6.39 | 6.35 | 6.39 | 6.36 | 6.23 | 6.42 | 6.4 | 6.46 |
| | Boron | mg/l | 2.1 | 2.3 | 2.21 | 2.54 | 2.49 | 2.04 | 2.29 | 3.41 | 3.01 |
| | Calcium | mg/l | 30.3 | 26 | 25.8 | 24.9 | 25.1 | 26.1 | 29 | 28.1 | 28.6 |
| | Chloride | mg/l | 13.0 | 19 | 18 | 19 | 20 | 20 | 19 | 21 | 20 |
| | Fluoride | mg/l | < 0.050 | 0.16 J | 0.5 | 0.25 J | 0.27 J | 0.34 | 0.27 J | 0.2 J | 0.18 J |
| | Sulfate | mg/l | 5.2 | 5.2 | 4.5 | < 4.1 | 4.3 | 2.7 | 3 | < 4.7 | 2.7 |
| | TDS | mg/l | 195 | 210 | 202 | 216 | 399 | 215 | 198 | 347 | 236 |
| Appendix IV | Antimony | mg/l | 0.00033 JB | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 |
| | Arsenic | mg/l | 0.00042 J | 0.00094 J | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.0007 J |
| | Barium | mg/l | 0.062 | 0.22 | 0.212 | 0.228 | 0.214 | 0.213 | 0.222 | 0.219 | 0.205 |
| | Beryllium | mg/l | 0.00023 J | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 |
| | Cadmium | mg/l | < 0.00011 | < 0.0025 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| | Chromium | mg/l | < 0.00039 | < 0.0025 | 0.0005 J | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| | Cobalt | mg/l | 0.014 | 0.00085 J | 0.0008 J | 0.0008 J | 0.001 J | 0.001 J | 0.0011 J | 0.0012 J | 0.0012 J |
| | Lead | mg/l | < 0.000046 | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00007 J |
| | Lithium | mg/l | 0.0091 J | < 0.005 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| | Mercury | mg/l | NA | < 0.0002 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 |
| | Molybdenum | mg/l | 0.0014 J | < 0.015 | 0.0006 J | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0007 J | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 4.13 | 0.715 | 0.526 U | 0.176 U | 0.609 U | 0.0752 U | 0.404 U | 0.868 U | 1.29 |
| | Selenium | mg/l | < 0.0013 | < 0.0013 | < 0.01 | 0.001 J | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Thallium | mg/l | < 0.000052 | < 0.0005 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | |
| Field | Conductivity | µS/cm | NA | 409 | 403.5 | 422.16 | 436 | 449.5 | 450.2 | 457.8 | 461.5 |
| | Dissolved Oxygen | mg/l | NA | 0.07 | 0.09 | 0.34 | 0.25 | 0.15 | 0.22 | 0.13 | 0.11 |
| | Oxidation Reduction Potential | mV | NA | -54 | -55.1 | -46.4 | -26.2 | -22.6 | -47.7 | -138 | -60.2 |
| | Temperature | C | NA | 20.26 | 20.51 | 20.08 | 19.85 | 18.79 | 18.18 | 16.96 | 22.1 |
| | Turbidity | ntu | NA | NA | 2.43 | 3.71 | 6.52 | 3.49 | NA | 4.83 | 4.84 |

| Analyte | Units | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | YGWC-28S | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | YGWC-28S (100917) | YGWC-28S (033018) | YGWC-28S (061218) | YGWC-28S (100318) | YGWC-28S (022719) | YGWC-28S (040219) | YGWC-28S (092619) | YGWC-28S (021320) | YGWC-28S (031920) | |
| | | 10/9/2017 | 3/30/2018 | 6/12/2018 | 10/3/2018 | 2/27/2019 | 4/2/2019 | 9/26/2019 | 2/13/2020 | 3/19/2020 | |
| Appendix III | pH | SU | 6.37 | 6.35 | 6.47 | 6.01 | 6.38 | 6.7 | 6.47 | 6.53 | 6.98 |
| | Boron | mg/l | 2.76 | NA | 2.9 | 2.4 | NA | 2.9 | 2.5 | NA | 2.5 |
| | Calcium | mg/l | 27.3 | NA | 26.4 | 25.8 | NA | 25.7 | 26.1 | NA | 30.4 |
| | Chloride | mg/l | 20 | NA | 19.3 | 20.2 | NA | 19.5 | 19.5 | NA | 18.1 |
| | Fluoride | mg/l | < 0.3 | < 0.3 | 0.13 J | 0.31 | 0.22 J | 0.14 J | 0.28 J | 0.18 J | 0.16 J |
| | Sulfate | mg/l | 2.9 | NA | 2.9 | 2.1 | NA | 2.4 | 1.6 | NA | 1.7 |
| | TDS | mg/l | 204 | NA | 243 | 237 | NA | < 25 | 239 | NA | 202 |
| Appendix IV | Antimony | mg/l | NA | < 0.003 | NA | NA | < 0.003 | NA | NA | < 0.00027 | < 0.00027 |
| | Arsenic | mg/l | NA | 0.00069 J | 0.00075 J | 0.0007 J | < 0.005 | < 0.005 | 0.00057 J | 0.00065 J | 0.00051 J |
| | Barium | mg/l | NA | 0.2 | 0.21 | 0.22 | 0.21 | 0.2 | 0.18 | 0.21 | 0.20 |
| | Beryllium | mg/l | NA | < 0.003 | NA | NA | < 0.003 | < 0.003 | < 0.003 | < 0.000074 | < 0.000074 |
| | Cadmium | mg/l | NA | < 0.001 | NA | NA | < 0.001 | < 0.001 | < 0.0025 | < 0.00011 | < 0.00011 |
| | Chromium | mg/l | NA | < 0.01 | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.00039 | 0.00049 J |
| | Cobalt | mg/l | NA | < 0.01 | 0.0011 J | 0.0013 J | 0.00093 J | 0.0011 J | 0.00098 J | 0.00092 J | 0.00093 J |
| | Lead | mg/l | NA | < 0.005 | NA | NA | < 0.005 | NA | NA | 0.000054 J | 0.000075 J |
| | Lithium | mg/l | NA | < 0.05 | < 0.05 | < 0.25 o | < 0.05 | < 0.05 | < 0.03 | < 0.00078 | < 0.00078 |
| | Mercury | mg/l | NA | < 0.0005 | NA | NA | 0.000052 J | < 0.0005 | < 0.0005 | < 0.00014 | NA |
| | Molybdenum | mg/l | NA | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.00095 | < 0.00095 |
| | Combined Radium - 226/228 | pCi/l | NA | 0.195 U | 1.02 U | 0.713 U | 0.543 U | 0.521 U | 1.16 | 1.04 | 1.01 |
| | Selenium | mg/l | NA | < 0.01 | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.0013 | < 0.0013 |
| Thallium | mg/l | NA | < 0.001 | NA | NA | < 0.001 | NA | NA | < 0.000052 | < 0.000052 | |
| Field | Conductivity | µS/cm | NA | 453.22 | NA | NA | 388.1 | 448.1 | 464.3 | NA | NA |
| | Dissolved Oxygen | mg/l | NA | 0.07 | NA | NA | 0.1 | 0.1 | 0.09 | NA | NA |
| | Oxidation Reduction Potential | mV | NA | -56.85 | NA | NA | -100.7 | -62.1 | -38.7 | NA | NA |
| | Temperature | C | NA | 18.96 | NA | NA | 19.23 | 18.88 | 20.97 | NA | NA |
| | Turbidity | ntu | NA | 9.68 | NA | NA | 4.92 | 4.73 | 3.58 | NA | NA |

| Analyte | Units | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|
| | | YGWC-28I (060916) | YGWC-28I (080216) | YGWC-28I (092116) | YGWC-28I (110816) | YGWC-28I (011817) | YGWC-28I (022217) | YGWC-28I (050517) | YGWC-28I (070517) | YGWC-28I (100517) | |
| | | 6/9/2016 | 8/2/2016 | 9/21/2016 | 11/8/2016 | 1/18/2017 | 2/22/2017 | 5/5/2017 | 7/5/2017 | 10/5/2017 | |
| Appendix III | pH | SU | 6.42 | 6.43 | 6.45 | 6.37 | 6.27 | 6.35 | 6.36 | 6.4 | 6.43 |
| | Boron | mg/l | 2.2 | 2.22 | 2.65 | 2.44 | 1.88 | 2.05 | 3.01 | 2.7 | 2.53 |
| | Calcium | mg/l | 36 | 35.5 | 33.2 | 33.8 | 33.4 | 33.8 | 33.5 | 33.4 | 36.4 |
| | Chloride | mg/l | 18 | 18 | 18 | 18 | 18 | 18 | 19 o | 18 | 19 |
| | Fluoride | mg/l | 0.098 J | 0.38 | 0.08 J | 0.24 J | 0.12 J | < 0.3 | 0.08 J | 0.11 J | < 0.3 |
| | Sulfate | mg/l | 8.7 | 7.5 | 8 | 8.3 | 8 | 8.2 | < 8.4 | 8.1 | 8.6 |
| | TDS | mg/l | 240 | 226 | 214 | 229 | 243 | 310 | 289 | 217 | 221 |
| Appendix IV | Antimony | mg/l | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA |
| | Arsenic | mg/l | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA |
| | Barium | mg/l | 0.1 | 0.0836 | 0.0889 | 0.0886 | 0.0862 | 0.0915 | 0.0891 | 0.0862 | NA |
| | Beryllium | mg/l | < 0.0025 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA |
| | Cadmium | mg/l | 0.00055 J | 0.0001 J | 0.0001 J | 0.00009 J | 0.00009 J | 0.0001 J | 0.00009 J | 0.0002 J | NA |
| | Chromium | mg/l | < 0.0025 | 0.0005 J | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA |
| | Cobalt | mg/l | 0.00042 J | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA |
| | Lead | mg/l | < 0.0013 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA |
| | Lithium | mg/l | 0.0073 | 0.0073 J | 0.0067 J | 0.0072 J | 0.0067 J | 0.0064 J | 0.007 J | 0.0072 J | NA |
| | Mercury | mg/l | < 0.0002 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | NA |
| | Molybdenum | mg/l | 0.0011 J | 0.0014 J | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0014 J | 0.0014 J | NA |
| | Combined Radium - 226/228 | pCi/l | 0.194 U | 0.331 U | 0.335 U | 0.245 U | 0.261 U | 0.516 U | 0.713 U | 0.292 U | NA |
| | Selenium | mg/l | < 0.0013 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0012 J | < 0.01 | < 0.01 | NA |
| Thallium | mg/l | < 0.0005 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA | |
| Field | Conductivity | µS/cm | 402 | 412.3 | 402.64 | 416.4 | 412.6 | 394.8 | 417.5 | 400.3 | NA |
| | Dissolved Oxygen | mg/l | 0.45 | 0.44 | 0.75 | 0.19 | 0.25 | 0.26 | 0.22 | 0.2 | NA |
| | Oxidation Reduction Potential | mV | -32.4 | 7 | 25.26 | 75.7 | 64.2 | 90 | -14.7 | 87.8 | NA |
| | Temperature | C | 19.33 | 21.68 | 22 | 19.59 | 19.46 | 18.61 | 16.52 | 22.71 | NA |
| | Turbidity | ntu | 2.9 | 0.86 | 1.33 | 0.26 | 0.13 | 0.56 | 0.8 | 0.5 | NA |

| Analyte | Units | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-28I | YGWC-29I | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| | | YGWC-28I (033018) | YGWC-28I (061218) | YGWC-28I (100318) | YGWC-28I (022719) | YGWC-28I (040119) | YGWC-28I (092619) | YGWC-28I (021320) | YGWC-28I (031920) | YGWC-29I (060916) | |
| | | 3/30/2018 | 6/12/2018 | 10/3/2018 | 2/27/2019 | 4/1/2019 | 9/26/2019 | 2/13/2020 | 3/19/2020 | 6/9/2016 | |
| Appendix III | pH | SU | 6.39 | 6.42 | 6.21 | 6.32 | 6.3 | 6.43 | 6.49 | 7.01 | 6.19 |
| | Boron | mg/l | NA | 2.8 | 2.3 | NA | 2.7 | 2.8 | NA | 2.4 | 0.88 |
| | Calcium | mg/l | NA | 33.4 | 32.6 | NA | 33.8 | 32 | NA | 37.3 | 12 |
| | Chloride | mg/l | NA | 17.6 | 17.7 | NA | 17.2 | 17.3 | NA | 16.0 | 15 |
| | Fluoride | mg/l | < 0.3 | < 0.3 | < 0.3 | 0.14 J | 0.078 J | 0.29 J | 0.14 J | 0.070 J | 0.085 J |
| | Sulfate | mg/l | NA | 8.2 | 8 | NA | 8.2 | 7.9 | NA | 9.1 | 33 |
| | TDS | mg/l | NA | 234 | 232 | NA | 238 | 241 | NA | 212 | 150 |
| Appendix IV | Antimony | mg/l | < 0.003 | NA | NA | < 0.003 | NA | NA | < 0.00027 | < 0.00027 | < 0.0025 |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.00035 | < 0.00035 | < 0.0013 |
| | Barium | mg/l | 0.087 | 0.088 | 0.092 | 0.086 | 0.088 | 0.087 | 0.089 | 0.089 | 0.082 |
| | Beryllium | mg/l | < 0.003 | NA | NA | < 0.003 | < 0.003 | < 0.003 | < 0.000074 | < 0.000074 | < 0.0025 |
| | Cadmium | mg/l | < 0.001 | NA | NA | 0.00014 J | 0.00043 J | < 0.0025 | 0.00013 J | 0.00016 J | < 0.0025 |
| | Chromium | mg/l | < 0.01 | NA | NA | < 0.01 | < 0.01 | 0.00044 J | 0.00047 J | < 0.00039 | < 0.0025 |
| | Cobalt | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.005 | < 0.00030 | < 0.00030 | 0.00052 J |
| | Lead | mg/l | < 0.005 | NA | NA | < 0.005 | NA | NA | < 0.000046 | < 0.000046 | < 0.0013 |
| | Lithium | mg/l | 0.007 J | 0.0073 J | 0.0069 J | 0.0063 J | 0.0065 J | 0.0064 J | 0.0069 J | 0.0070 J | 0.0075 |
| | Mercury | mg/l | < 0.0005 | NA | NA | 0.000048 J | < 0.0005 | < 0.0005 | < 0.00014 | NA | < 0.0002 |
| | Molybdenum | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0013 J | 0.0013 J | 0.0014 J | < 0.015 |
| | Combined Radium - 226/228 | pCi/l | 0.948 U | 0.869 U | 0.864 U | 0.947 U | 0.162 U | 1.06 U | 1.12 | 0.913 | 0.523 |
| | Selenium | mg/l | < 0.01 | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.0013 | < 0.0013 | < 0.0013 |
| Thallium | mg/l | < 0.001 | NA | NA | < 0.001 | NA | NA | < 0.000052 | < 0.000052 | < 0.0005 | |
| Field | Conductivity | µS/cm | 412.71 | NA | NA | 352.4 | 365.3 | 398.84 | NA | NA | 259.6 |
| | Dissolved Oxygen | mg/l | 0.96 | NA | NA | 0.92 | 0.43 | 0.41 | NA | NA | 0.21 |
| | Oxidation Reduction Potential | mV | 108.93 | NA | NA | 89.7 | 158.4 | 53.4 | NA | NA | 28.6 |
| | Temperature | C | 17.01 | NA | NA | 19.33 | 19.04 | 24.47 | NA | NA | 19.7 |
| | Turbidity | ntu | 1.09 | NA | NA | 0.2 | 1.1 | 0.49 | NA | NA | 1.41 |

| Analyte | Units | YGWC-29I | YGWC-29I | YGWC-29I | YGWC-29I | YGWC-29I | YGWC-29I | YGWC-29I | YGWC-29I | YGWC-29I | |
|--------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| | | YGWC-29I (080216) | YGWC-29I (092116) | YGWC-29I (110716) | YGWC-29I (011917) | YGWC-29I (022217) | YGWC-29I (050817) | YGWC-29I (070517) | YGWC-29I (100517) | YGWC-29I (032918) | |
| | | 8/2/2016 | 9/21/2016 | 11/7/2016 | 1/19/2017 | 2/22/2017 | 5/8/2017 | 7/5/2017 | 10/5/2017 | 3/29/2018 | |
| Appendix III | pH | SU | 6.17 | 6.2 | 6.1 | 6.22 | 6.12 | 6.11 | 6.17 | 6.17 | 6.09 |
| | Boron | mg/l | 0.872 | 0.853 | 0.815 | 0.803 | 0.855 | 0.884 | 0.811 | 0.851 | NA |
| | Calcium | mg/l | 11.7 | 11.1 | 11.4 | 12 | 11.2 | 11.2 | 11.9 | 12 | NA |
| | Chloride | mg/l | 14 | 14 | 14 | 14 | 13 | 15 | 14 | 15 | NA |
| | Fluoride | mg/l | 0.09 J | 0.09 J | < 0.3 | < 0.3 | < 0.3 | 0.06 J | 0.08 J | < 0.3 | < 0.3 |
| | Sulfate | mg/l | 32 | 32 | 33 | 32 | 31 | 32 | 31 | 31 | NA |
| | TDS | mg/l | 155 | 138 | 291 | 145 | 185 | 114 | 136 | 139 | NA |
| Appendix IV | Antimony | mg/l | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 |
| | Arsenic | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA | < 0.005 |
| | Barium | mg/l | 0.0781 | 0.0782 | 0.0712 | 0.0689 | 0.0741 | 0.0725 | 0.0677 | NA | 0.055 |
| | Beryllium | mg/l | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | < 0.003 | NA | < 0.003 |
| | Cadmium | mg/l | 0.0001 J | 0.0002 J | 0.0002 J | 0.0001 J | 0.0001 J | 0.0002 J | 0.0002 J | NA | < 0.001 |
| | Chromium | mg/l | 0.0005 J | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 |
| | Cobalt | mg/l | 0.0006 J | 0.0007 J | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.0003 J | NA | < 0.01 |
| | Lead | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | NA | < 0.005 |
| | Lithium | mg/l | 0.0078 J | 0.0074 J | 0.0057 J | 0.0055 J | 0.0063 J | 0.0066 J | 0.0058 J | NA | 0.0049 J |
| | Mercury | mg/l | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | NA | < 0.0005 |
| | Molybdenum | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 |
| | Combined Radium - 226/228 | pCi/l | 1.25 | 1.21 U | 1.16 | 0.933 U | 1.45 U | 0.21 U | 0.62 U | NA | 1.37 |
| | Selenium | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | NA | < 0.01 |
| Thallium | mg/l | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | NA | < 0.001 | |
| Field | Conductivity | µS/cm | 260.3 | 252.4 | 259.5 | 285 | 252.2 | 268.8 | 257.8 | NA | 263.67 |
| | Dissolved Oxygen | mg/l | 0.24 | 0.11 | 0.47 | 0.35 | 0.41 | 0.28 | 0.26 | NA | 0.46 |
| | Oxidation Reduction Potential | mV | 49.6 | 48.16 | 103.9 | -10.8 | 98.9 | 13.1 | 79.5 | NA | 86.94 |
| | Temperature | C | 22.01 | 20.92 | 20.98 | 19.41 | 17.72 | 19.5 | 21.77 | NA | 20.66 |
| | Turbidity | ntu | 0.01 | 1.75 | 0.25 | 0.59 | 0.39 | 0.48 | 0.42 | NA | 0.72 |

| Analyte | Units | YGWC-29I | YGWC-29I | YGWC-29I | YGWC-29I | YGWC-29I | YGWC-29I | YGWC-29I | |
|---------------------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| | | YGWC-29I (061118) | YGWC-29I (100218) | YGWC-29I (022719) | YGWC-29I (040119) | YGWC-29I (092519) | YGWC-29I (021320) | YGWC-29I (032020) | |
| | | 6/11/2018 | 10/2/2018 | 2/27/2019 | 4/1/2019 | 9/25/2019 | 2/13/2020 | 3/20/2020 | |
| Appendix III | pH | SU | 6.17 | 6.17 | 6.19 | 6.03 | 6.21 | 6.32 | 6.17 |
| | Boron | mg/l | 0.9 | 0.81 | NA | 0.85 | 0.73 | NA | 0.80 |
| | Calcium | mg/l | 12.1 | 11.7 J | NA | 11.9 J | 10.7 | NA | 12.7 |
| | Chloride | mg/l | 13.6 | 13.4 | NA | 13.1 | 11.3 | NA | 11.3 |
| | Fluoride | mg/l | < 0.3 | < 0.3 | 0.15 J | 0.059 J | 0.054 J | 0.053 J | 0.057 J |
| | Sulfate | mg/l | 30.6 | 30.8 | NA | 30.4 | 30 | NA | 33.0 |
| | TDS | mg/l | 156 | 154 | NA | 147 | 162 | NA | 137 |
| | Appendix IV | Antimony | mg/l | NA | NA | < 0.003 | NA | NA | < 0.00027 |
| Arsenic | | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.00035 | < 0.00035 |
| Barium | | mg/l | 0.068 | 0.067 | 0.067 | 0.063 | 0.061 | 0.053 | 0.057 |
| Beryllium | | mg/l | NA | NA | < 0.003 | < 0.003 | < 0.003 | < 0.000074 | < 0.000074 |
| Cadmium | | mg/l | NA | NA | 0.00026 J | 0.00022 J | 0.00024 J | 0.00018 J | 0.00022 J |
| Chromium | | mg/l | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.00039 | < 0.00039 |
| Cobalt | | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.005 | < 0.00030 | < 0.00030 |
| Lead | | mg/l | NA | NA | < 0.005 | NA | NA | < 0.000046 | < 0.000046 |
| Lithium | | mg/l | 0.0064 J | 0.006 J | 0.0053 J | 0.0052 J | 0.0057 J | 0.0057 J | 0.0051 J |
| Mercury | | mg/l | NA | NA | 0.000047 J | 0.000039 J | < 0.0005 | < 0.00014 | NA |
| Molybdenum | | mg/l | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.00095 | < 0.00095 |
| Combined Radium - 226/228 | | pCi/l | 1.27 U | 0.442 U | 0.902 U | 0.584 U | 1.03 U | 0.806 | 1.42 |
| Selenium | | mg/l | NA | NA | < 0.01 | < 0.01 | < 0.01 | < 0.0013 | < 0.0013 |
| Thallium | | mg/l | NA | NA | < 0.001 | NA | NA | < 0.000052 | < 0.000052 |
| Field | Conductivity | µS/cm | NA | NA | 243 | 248.9 | 252.13 | NA | NA |
| | Dissolved Oxygen | mg/l | NA | NA | 0.2 | 0.41 | 0.61 | NA | NA |
| | Oxidation Reduction Potential | mV | NA | NA | 51 | 136.6 | 68.7 | NA | NA |
| | Temperature | C | NA | NA | 18.03 | 18.72 | 27.94 | NA | NA |
| | Turbidity | ntu | NA | NA | 1.02 | 0.4 | 0.52 | NA | NA |

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.
2. Appendix III = Indicator parameters evaluated during Detection Monitoring.
3. Appendix IV = Parameters evaluated during Assessment Monitoring.
4. NA = Not analyzed for this constituent.
5. < Analyte was not detected above the laboratory method detection limit (MDL).
6. Detections are in **bold**

Acronyms and Abbreviations:

TDS = Total Dissolved Solids

ntu = nephelometric turbidity units

pCi/L = picoCuries per liter

mg/L = milligrams per liter

mV = millivolts

C = Celsius

S.U. = standard units

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

APPENDIX D

Statistical Analysis



Appendix III Statistically Significant Increase Summary (March 2020)

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

GROUNDWATER STATS CONSULTING

August 26, 2020

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, GA 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2)
Statistical Analysis March 2020

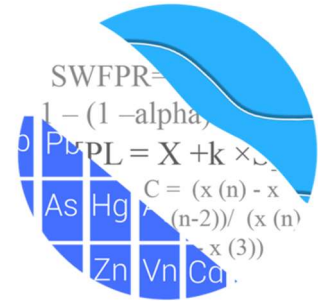
Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide March 2020 Semi-Annual Groundwater Monitoring and Corrective Action Statistical summary of the analysis of groundwater data 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 Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the 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 well:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S, and YGWA-30I
- **Downgradient wells:** YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29I



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 following constituents:

- **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. Statistical analysis of mercury at all wells will be provided in an addendum to this report when the results are received from the laboratory. A summary of well/constituent pairs with 100% nondetects follows this letter.

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).

A substitution of the most recent reporting limit is used for nondetect data. In the case of cobalt and lithium, due to varying detection limits, the most recent reporting limits of 0.005 mg/L and 0.03 mg/L were substituted, respectively, across all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits 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 nondetects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect 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% nondetects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in October 2017

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 this analysis, data were screened for the purpose of updating the statistical limits as described below.

Time series plots are 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 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 nondetects. 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 Regional Screening Levels discussed below, nondetects were substituted with one half the reporting limit. An updated summary of outliers and Tukey's test 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 trend 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 trends (Figure D). In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses 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 + 288, 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.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) is typically used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. While data were further tested for

intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – March 2020

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2020 (Figure E). 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).

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. Several prediction limit exceedances were noted for Appendix III parameters. A summary table of the interwell prediction limits follows this letter.

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 F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. Statistically significant increasing trends were noted for calcium and sulfate in upgradient well YGWA-1D, and sulfate in upgradient well YGWA-3D. Statistically significant decreasing trends were noted for calcium in upgradient well YGWA-14S, chloride in downgradient wells YGWC-26S, YGWC-27S, and YGWC-29I, and sulfate in downgradient wells YGWC-27S and YGWC-29I. A summary of the trend test results follows this letter.

Statistical Analysis of Appendix IV Parameters – March 2020

Interwell tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data for Appendix IV constituents (Figure G). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for

barium and radium. When data contained greater than 50% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. 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 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 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 Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the March 2020 sample event for the federal and state rules (Figures H and I, respectively). To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the federal and state requirements in each downgradient well (Figures J and K, respectively). 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. For both federal and state confidence intervals, no exceedances were noted. Summaries of the confidence intervals follow this letter.

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
Groundwater Analyst



Kristina L. Rayner
Groundwater Statistician

100% Nondetect Well-Constituent Pairs

Date: 5/13/2020 10:39 AM

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

Antimony (mg/L)

YGWA-30I, YGWA-3I, YGWC-28I, YGWC-28S, YGWC-29I

Arsenic (mg/L)

YGWA-14S, YGWC-26I, YGWC-26S, YGWC-27S, YGWC-28I, YGWC-29I

Beryllium (mg/L)

YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWC-26I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Cadmium (mg/L)

YGWA-1I, YGWA-2I, YGWA-30I, YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28S

Chromium (mg/L)

YGWA-14S, YGWC-27I

Cobalt (mg/L)

YGWA-14S, YGWA-1D, YGWA-2I, YGWA-3D, YGWA-3I, YGWC-26I

Lead (mg/L)

YGWA-1I, YGWA-2I, YGWA-30I, YGWA-3I, YGWC-27I, YGWC-28I, YGWC-29I

Lithium (mg/L)

YGWA-14S, YGWC-26S, YGWC-27S, YGWC-28S

Mercury (mg/L)

YGWA-2I

Molybdenum (mg/L)

YGWA-14S, YGWA-30I, YGWC-26I, YGWC-26S, YGWC-27S, YGWC-29I

Selenium (mg/L)

YGWA-1D, YGWA-1I, YGWA-2I, YGWA-30I, YGWA-3D, YGWA-3I, YGWC-27I, YGWC-27S, YGWC-29I

Thallium (mg/L)

YGWA-1D, YGWA-2I, YGWA-30I, YGWA-3I, YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S, YGWC-29I

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:53 PM

YGWC-261 Combined Radium 226 + 228 (pCi/L)

6/8/2016

6.68 (o)

Appendix III Tukey's Outlier Analysis - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/11/2020, 4:19 PM

| <u>Constituent</u> | <u>Well</u> | <u>Outlier</u> | <u>Value(s)</u> | <u>Method</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>Distribution</u> | <u>Normality Test</u> |
|--------------------|------------------------|----------------|--|---------------|----------|-------------|------------------|---------------------|-----------------------|
| Chloride (mg/L) | YGWA-14S, YGWA-1D, ... | Yes | 4.1, 4.1, 4.1, 4.1, 4.2, 4.2, 4.2, 4.2, 4.9, 3.7, 3.8, 3.8, 4.8, 5.2 | NP | 98 | 1.748 | 1.054 | normal | ShapiroFrancia |

Appendix III Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/11/2020, 4:19 PM

| <u>Constituent</u> | <u>Well</u> | <u>Outlier</u> | <u>Value(s)</u> | <u>Method</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>Distribution</u> | <u>Normality Test</u> |
|-------------------------------|-------------------------------|----------------|---|---------------|-----------|--------------|------------------|---------------------|-----------------------|
| Boron (mg/L) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 98 | 0.02735 | 0.01509 | normal | ShapiroFrancia |
| Calcium (mg/L) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 98 | 13.21 | 11.18 | normal | ShapiroFrancia |
| Chloride (mg/L) | YGWA-14S, YGWA-1D, ... | Yes | 4.1, 4.1, 4.1, 4.1, 4.2, 4.2, 4.2, 4.2, 4.9, 3.7, 3.8, 3.8, 4.8, 5.2 | NP | 98 | 1.748 | 1.054 | normal | ShapiroFrancia |
| Fluoride (mg/L) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 119 | 0.2586 | 0.1406 | normal | ChiSquared |
| pH (S.U.) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 119 | 6.687 | 0.8682 | normal | ChiSquared |
| Sulfate (mg/L) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 98 | 6.415 | 3.211 | normal | ShapiroFrancia |
| Total Dissolved Solids (mg/L) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 98 | 100.5 | 50.19 | normal | ShapiroFrancia |

Appendix IV Tukey's Outlier Analysis - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | N | Mean | Std. Dev. | Distribution | Normality Test |
|-----------------------------------|---------------|---------|----------------------|--|--------|----|-----------|-----------|--------------|----------------|
| Arsenic (mg/L) | YGWA-1D (bg) | Yes | 0.005,0.005 | 9/13/2016,11/1/2016 | NP | 16 | 0.002011 | 0.001242 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-30I (bg) | Yes | 0.005 | 3/27/2018 | NP | 16 | 0.006975 | 0.0006245 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-28I | Yes | 0.1 | 6/9/2016 | NP | 16 | 0.08876 | 0.003645 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWA-14S (bg) | Yes | 0.003,0.003 | 6/2/2016,3/27/2018 | NP | 14 | 0.0005936 | 0.00102 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWC-26S | Yes | 0.003,0.003 | 6/8/2016,3/30/2018 | NP | 14 | 0.000565 | 0.001032 | normal | ShapiroWilk |
| Cadmium (mg/L) | YGWC-28I | Yes | 0.0025,0.0025 | 3/30/2018,9/26/2019 | NP | 14 | 0.0005129 | 0.0008531 | normal | ShapiroWilk |
| Cadmium (mg/L) | YGWC-29I | Yes | 0.001,0.001 | 6/9/2016,3/29/2018 | NP | 14 | 0.0003014 | 0.0003003 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-27S | Yes | 0.005 | 3/29/2018 | NP | 16 | 0.002544 | 0.0006723 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-28S | Yes | 0.005 | 3/30/2018 | NP | 16 | 0.001263 | 0.001007 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | Yes | 6.68 | 6/8/2016 | NP | 16 | 1.223 | 1.549 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-26S | Yes | 0.03,0.44,0.16,0.044 | 9/20/2016,11/7/2016,5/3/2017,6/13/2018 | NP | 17 | 0.2685 | 0.1021 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-1I (bg) | Yes | 0.03,0.03,0.03 | 6/1/2016,9/13/2016,11/4/2016 | NP | 16 | 0.007525 | 0.01115 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-2I (bg) | Yes | 0.03,0.03 | 11/4/2016,10/1/2018 | NP | 16 | 0.005694 | 0.00953 | normal | ShapiroWilk |
| Selenium (mg/L) | YGWC-26I | Yes | 0.01,0.01 | 5/8/2017,3/30/2018 | NP | 14 | 0.003071 | 0.002941 | normal | ShapiroWilk |

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

| Constituent | Well | Outlier Value(s) | Date(s) | Method | N | Mean | Std. Dev. | Distribution | Normality Test |
|-------------------------|----------------------|------------------------|----------------------------|-----------|-----------|------------------|------------------|---------------|--------------------|
| Antimony (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 12 | 0.002792 | 0.0007217 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 12 | 0.001932 | 0.001151 | normal | ShapiroWilk |
| Antimony (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 12 | 0.002675 | 0.0008081 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 12 | 0.002072 | 0.001193 | normal | ShapiroWilk |
| Antimony (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 12 | 0.003 | 0 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 12 | 0.002512 | 0.0008862 | normal | ShapiroWilk |
| Antimony (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 12 | 0.003 | 0 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 12 | 0.002593 | 0.0009518 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 12 | 0.002775 | 0.0005259 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 12 | 0.002778 | 0.0007708 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 12 | 0.002775 | 0.0007794 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 12 | 0.003 | 0 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 12 | 0.003 | 0 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 12 | 0.003 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWA-1D (bg) | Yes 0.005,0.005 | 9/13/2016,11/1/2016 | NP | 16 | 0.002011 | 0.001242 | normal | ShapiroWilk |
| Arsenic (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 16 | 0.004719 | 0.001125 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 16 | 0.001963 | 0.001503 | normal | ShapiroWilk |
| Arsenic (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 16 | 0.004887 | 0.00045 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 16 | 0.004656 | 0.001097 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 16 | 0.004412 | 0.001453 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWC-27I | No n/a | n/a | NP | 16 | 0.00284 | 0.002236 | normal | ShapiroWilk |
| Arsenic (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWC-28S | No n/a | n/a | NP | 16 | 0.002844 | 0.002228 | normal | ShapiroWilk |
| Arsenic (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Barium (mg/L) | YGWA-14S (bg) | No n/a | n/a | NP | 16 | 0.007575 | 0.001019 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 16 | 0.006844 | 0.0009647 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-1I (bg) | No n/a | n/a | NP | 16 | 0.008769 | 0.001662 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 16 | 0.004119 | 0.0008296 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-30I (bg) | Yes 0.005 | 3/27/2018 | NP | 16 | 0.006975 | 0.0006245 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 16 | 0.007312 | 0.00137 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-3I (bg) | No n/a | n/a | NP | 16 | 0.003531 | 0.0006916 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-26I | No n/a | n/a | NP | 16 | 0.06526 | 0.002713 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-26S | No n/a | n/a | NP | 16 | 0.02756 | 0.0017 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-27I | No n/a | n/a | NP | 16 | 0.06765 | 0.006649 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-27S | No n/a | n/a | NP | 16 | 0.1018 | 0.007225 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-28I | Yes 0.1 | 6/9/2016 | NP | 16 | 0.08876 | 0.003645 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-28S | No n/a | n/a | NP | 16 | 0.2102 | 0.01155 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-29I | No n/a | n/a | NP | 16 | 0.06773 | 0.008408 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWA-14S (bg) | Yes 0.003,0.003 | 6/2/2016,3/27/2018 | NP | 14 | 0.0005936 | 0.00102 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 14 | 0.002791 | 0.0007825 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWC-26S | Yes 0.003,0.003 | 6/8/2016,3/30/2018 | NP | 14 | 0.0005565 | 0.001032 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWC-27I | No n/a | n/a | NP | 14 | 0.0007907 | 0.001198 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

| Constituent | Well | Outlier Value(s) | Date(s) | Method | N | Mean | Std. Dev. | Distribution | Normality Test |
|--|-----------------|--------------------------|----------------------------|-----------|-----------|------------------|------------------|---------------|--------------------|
| Beryllium (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 14 | 0.002326 | 0.0006494 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 14 | 0.002336 | 0.0006147 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 14 | 0.002329 | 0.0006414 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 14 | 0.002327 | 0.0006468 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-28I | Yes 0.0025,0.0025 | 3/30/2018,9/26/2019 | NP | 14 | 0.0005129 | 0.0008531 | normal | ShapiroWilk |
| Cadmium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-29I | Yes 0.001,0.001 | 6/9/2016,3/29/2018 | NP | 14 | 0.0003014 | 0.0003003 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 14 | 0.006884 | 0.004394 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWA-1I (bg) | No n/a | n/a | NP | 14 | 0.007553 | 0.004057 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 14 | 0.007956 | 0.004062 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 14 | 0.0094 | 0.002245 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 14 | 0.008093 | 0.003794 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 14 | 0.008736 | 0.003227 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWC-26I | No n/a | n/a | NP | 14 | 0.006294 | 0.004571 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWC-26S | No n/a | n/a | NP | 14 | 0.003943 | 0.003491 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 14 | 0.009679 | 0.002959 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWC-28I | No n/a | n/a | NP | 14 | 0.007958 | 0.004058 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 14 | 0.008642 | 0.003452 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 14 | 0.009321 | 0.002539 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWA-1I (bg) | No n/a | n/a | NP | 16 | 0.001871 | 0.001406 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWA-30I (bg) | No n/a | n/a | NP | 16 | 0.02335 | 0.005626 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWC-26S | No n/a | n/a | NP | 16 | 0.0025 | 0.0008446 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-27I | No n/a | n/a | NP | 16 | 0.02107 | 0.02867 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-27S | Yes 0.005 | 3/29/2018 | NP | 16 | 0.002544 | 0.0006723 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 16 | 0.004714 | 0.001145 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWC-28S | Yes 0.005 | 3/30/2018 | NP | 16 | 0.001263 | 0.001007 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-29I | No n/a | n/a | NP | 16 | 0.003882 | 0.002 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-14S (bg) | No n/a | n/a | NP | 16 | 0.5584 | 0.4684 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-1D (bg) | No n/a | n/a | NP | 16 | 0.8898 | 0.3394 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-1I (bg) | No n/a | n/a | NP | 16 | 0.7925 | 0.7051 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-2I (bg) | No n/a | n/a | NP | 16 | 0.5056 | 0.2716 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-30I (bg) | No n/a | n/a | NP | 16 | 0.7335 | 0.6871 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-3D (bg) | No n/a | n/a | NP | 16 | 3.386 | 0.6987 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-3I (bg) | No n/a | n/a | NP | 16 | 1.509 | 0.8338 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | Yes 6.68 | 6/8/2016 | NP | 16 | 1.223 | 1.549 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26S | No n/a | n/a | NP | 16 | 0.7387 | 0.2913 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27I | No n/a | n/a | NP | 16 | 3.596 | 1.038 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27S | No n/a | n/a | NP | 16 | 0.8785 | 0.3209 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | No n/a | n/a | NP | 16 | 0.6106 | 0.348 | normal | ShapiroWilk |

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

| Constituent | Well | Outlier Value(s) | Date(s) | Method | N | Mean | Std. Dev. | Distribution | Normality Test |
|-----------------------------------|---------------------|---------------------------------|---|-----------|-----------|-----------------|----------------|---------------|--------------------|
| Combined Radium 226 + 228 (pCi/L) | YGWC-28S | No n/a | n/a | NP | 16 | 0.6791 | 0.365 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-29I | No n/a | n/a | NP | 16 | 0.9488 | 0.384 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 17 | 0.2835 | 0.06791 | unknown | ShapiroWilk |
| Fluoride (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 17 | 0.1489 | 0.117 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 17 | 0.2688 | 0.08845 | unknown | ShapiroWilk |
| Fluoride (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 17 | 0.1541 | 0.1002 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 17 | 0.2859 | 0.05821 | unknown | ShapiroWilk |
| Fluoride (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 17 | 0.5029 | 0.06789 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWA-3I (bg) | No n/a | n/a | NP | 17 | 0.1761 | 0.08801 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-26I | No n/a | n/a | NP | 17 | 0.1822 | 0.1152 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-26S | Yes 0.03,0.44,0.16,0.044 | 9/20/2016,11/7/2016,5/3/2017,6/13/2018 | NP | 17 | 0.2685 | 0.1021 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-27I | No n/a | n/a | NP | 17 | 0.2394 | 0.09945 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-27S | No n/a | n/a | NP | 17 | 0.2113 | 0.1111 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-28I | No n/a | n/a | NP | 17 | 0.1956 | 0.1074 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-28S | No n/a | n/a | NP | 17 | 0.2465 | 0.09239 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-29I | No n/a | n/a | NP | 17 | 0.1693 | 0.1149 | normal | ShapiroWilk |
| Lead (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 12 | 0.004592 | 0.001415 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 12 | 0.002994 | 0.002482 | normal | ShapiroWilk |
| Lead (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 12 | 0.003019 | 0.00245 | normal | ShapiroWilk |
| Lead (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 12 | 0.004588 | 0.001426 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 12 | 0.004182 | 0.001911 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWC-27S | No n/a | n/a | NP | 12 | 0.003779 | 0.002209 | normal | ShapiroWilk |
| Lead (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWC-28S | No n/a | n/a | NP | 12 | 0.003767 | 0.002231 | normal | ShapiroWilk |
| Lead (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lithium (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 16 | 0.03 | 0 | unknown | ShapiroWilk |
| Lithium (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 16 | 0.01147 | 0.003797 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-1I (bg) | Yes 0.03,0.03,0.03 | 6/1/2016,9/13/2016,11/4/2016 | NP | 16 | 0.007525 | 0.01115 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-2I (bg) | Yes 0.03,0.03 | 11/4/2016,10/1/2018 | NP | 16 | 0.005694 | 0.00953 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-30I (bg) | No n/a | n/a | NP | 16 | 0.01737 | 0.01479 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 16 | 0.01969 | 0.001571 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-3I (bg) | No n/a | n/a | NP | 16 | 0.01152 | 0.001838 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWC-26I | No n/a | n/a | NP | 16 | 0.006738 | 0.000438 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 16 | 0.03 | 0 | unknown | ShapiroWilk |
| Lithium (mg/L) | YGWC-27I | No n/a | n/a | NP | 16 | 0.009631 | 0.001871 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 16 | 0.03 | 0 | unknown | ShapiroWilk |
| Lithium (mg/L) | YGWC-28I | No n/a | n/a | NP | 16 | 0.006881 | 0.0003449 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 16 | 0.03 | 0 | unknown | ShapiroWilk |
| Lithium (mg/L) | YGWC-29I | No n/a | n/a | NP | 16 | 0.006056 | 0.0008839 | normal | ShapiroWilk |
| Mercury (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 13 | 0.0004662 | 0.0001218 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 13 | 0.0004301 | 0.0001707 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 13 | 0.0004657 | 0.0001237 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 13 | 0.0005 | 0 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 13 | 0.0004346 | 0.0001596 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 13 | 0.0004352 | 0.0001583 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 13 | 0.0004342 | 0.0001606 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 13 | 0.0004309 | 0.0001686 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 13 | 0.0004319 | 0.0001662 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 13 | 0.0004307 | 0.0001692 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 13 | 0.00043 | 0.0001709 | unknown | ShapiroWilk |

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

| Constituent | Well | Outlier Value(s) | Date(s) | Method | N | Mean | Std. Dev. | Distribution | Normality Test |
|------------------------|-----------------|----------------------|---------------------------|-----------|-----------|-----------------|-----------------|---------------|--------------------|
| Mercury (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 13 | 0.0004652 | 0.0001254 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 13 | 0.0004655 | 0.0001243 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 13 | 0.0004297 | 0.0001716 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 16 | 0.009763 | 0.00193 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-1I (bg) | No n/a | n/a | NP | 16 | 0.008581 | 0.001688 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 16 | 0.004694 | 0.001233 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 16 | 0.011103 | 0.001161 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-3I (bg) | No n/a | n/a | NP | 16 | 0.004338 | 0.002047 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-27I | No n/a | n/a | NP | 16 | 0.006756 | 0.004328 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-28I | No n/a | n/a | NP | 16 | 0.006206 | 0.004443 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 16 | 0.008831 | 0.003194 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-14S (bg) | No n/a | n/a | NP | 14 | 0.006943 | 0.00426 | normal | ShapiroWilk |
| Selenium (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWC-26I | Yes 0.01,0.01 | 5/8/2017,3/30/2018 | NP | 14 | 0.003071 | 0.002941 | normal | ShapiroWilk |
| Selenium (mg/L) | YGWC-26S | No n/a | n/a | NP | 14 | 0.00745 | 0.004192 | normal | ShapiroWilk |
| Selenium (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 14 | 0.009371 | 0.002352 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 14 | 0.009357 | 0.002405 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 12 | 0.0009241 | 0.000263 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 12 | 0.0009213 | 0.0002728 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 12 | 0.000925 | 0.0002598 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 12 | 0.0008427 | 0.0003675 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-27S | No n/a | n/a | NP | 12 | 0.0005525 | 0.0004674 | normal | ShapiroWilk |
| Thallium (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |

Upgradient Wells Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:38 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|---------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Calcium (mg/L) | YGWA-14S (bg) | -0.05271 | -60 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1D (bg) | 1.11 | 48 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3D (bg) | -0.02531 | -61 | -58 | Yes | 17 | 5.882 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-1D (bg) | -0.1114 | -61 | -58 | Yes | 17 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1D (bg) | 1.261 | 51 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3D (bg) | 0.7245 | 46 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |

Upgradient Wells Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:38 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|----------------------|-----------------|------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Boron (mg/L) | YGWA-14S (bg) | -0.002489 | -37 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-1D (bg) | -0.001025 | -26 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-1I (bg) | 0 | -33 | -44 | No | 14 | 64.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-2I (bg) | 0 | -26 | -44 | No | 14 | 71.43 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-30I (bg) | 0 | -19 | -44 | No | 14 | 85.71 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-3D (bg) | 0 | -13 | -44 | No | 14 | 57.14 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-3I (bg) | 0 | -13 | -44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-14S (bg) | -0.05271 | -60 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1D (bg) | 1.11 | 48 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1I (bg) | -0.1025 | -37 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-2I (bg) | 0.9579 | 31 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-30I (bg) | -0.0134 | -7 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-3D (bg) | 1.219 | 40 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-3I (bg) | 0.4381 | 18 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-14S (bg) | 0 | 6 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-1D (bg) | 0 | -11 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-1I (bg) | 0 | -5 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-2I (bg) | -0.03701 | -16 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-30I (bg) | 0 | 4 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-3D (bg) | -0.07067 | -33 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-3I (bg) | -0.04953 | -37 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-14S (bg) | 0 | 14 | 58 | No | 17 | 94.12 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-1D (bg) | -0.004818 | -21 | -58 | No | 17 | 35.29 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-1I (bg) | 0 | 17 | 58 | No | 17 | 88.24 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-2I (bg) | 0 | 6 | 58 | No | 17 | 23.53 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-30I (bg) | 0 | 14 | 58 | No | 17 | 94.12 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3D (bg) | -0.02531 | -61 | -58 | Yes | 17 | 5.882 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3I (bg) | -0.01022 | -25 | -58 | No | 17 | 29.41 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-14S (bg) | -0.01066 | -20 | -58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-1D (bg) | -0.1114 | -61 | -58 | Yes | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-1I (bg) | -0.04218 | -52 | -58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-2I (bg) | -0.03531 | -21 | -58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-30I (bg) | 0.005933 | 5 | 58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-3D (bg) | -0.0353 | -29 | -58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-3I (bg) | -0.07822 | -46 | -58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-14S (bg) | 0.3425 | 40 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1D (bg) | 1.261 | 51 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1I (bg) | -0.1237 | -7 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-2I (bg) | 0 | 0 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-30I (bg) | -0.05321 | -7 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3D (bg) | 0.7245 | 46 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3I (bg) | 0.6413 | 31 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-14S (bg) | 1.727 | 9 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-1D (bg) | 5.856 | 18 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-1I (bg) | -0.6315 | -3 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-2I (bg) | -3.471 | -25 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-30I (bg) | 4.021 | 23 | 44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-3D (bg) | 4.214 | 14 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-3I (bg) | 1.372 | 6 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|---------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Barium (mg/L) | YGWA-3D (bg) | -0.0008036 | -74 | -53 | Yes | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-26S | -0.00108 | -80 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-27I | -0.003166 | -59 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-27S | -0.003589 | -78 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-28S | -0.005296 | -59 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-29I | -0.00565 | -93 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-30I (bg) | -0.003763 | -111 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-27I | 0.003813 | 63 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | 0.206 | 64 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3D (bg) | -0.02531 | -61 | -58 | Yes | 17 | 5.882 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-30I (bg) | -0.007672 | -54 | -53 | Yes | 16 | 56.25 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-29I | -0.0005137 | -61 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-1D (bg) | -0.0008772 | -70 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-1I (bg) | -0.001096 | -76 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-3D (bg) | 0.0008155 | 70 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|----------------------|---------------------|-------------------|------------|------------|------------|-----------|-------------|------------|------------|-------------|-----------|
| Antimony (mg/L) | YGWA-14S (bg) | 0 | 9 | 35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-1D (bg) | 0 | 7 | 35 | No | 12 | 50 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-1I (bg) | 0 | -13 | -35 | No | 12 | 83.33 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-2I (bg) | -0.00002578 | -21 | -35 | No | 12 | 58.33 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-30I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-3D (bg) | 0 | 2 | 35 | No | 12 | 66.67 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-3I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-26I | 0 | -19 | -35 | No | 12 | 83.33 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-26S | 0 | -19 | -35 | No | 12 | 83.33 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-27I | 0 | -11 | -35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-27S | 0 | -11 | -35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-28I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-28S | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-29I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-14S (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-1D (bg) | -0.0002127 | -51 | -53 | No | 16 | 12.5 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-1I (bg) | 0 | -13 | -53 | No | 16 | 93.75 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-2I (bg) | -0.0003521 | -40 | -53 | No | 16 | 12.5 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-30I (bg) | 0 | -13 | -53 | No | 16 | 93.75 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-3D (bg) | 0 | -11 | -53 | No | 16 | 87.5 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-3I (bg) | 0 | -4 | -53 | No | 16 | 81.25 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-26I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-26S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-27I | -0.00007048 | -39 | -53 | No | 16 | 50 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-27S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-28I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-28S | -0.00009908 | -51 | -53 | No | 16 | 50 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-29I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-14S (bg) | -0.0004179 | -47 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-1D (bg) | 0.0001166 | 12 | 53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-1I (bg) | -0.0003284 | -20 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-2I (bg) | -0.0003414 | -44 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-30I (bg) | 0.0000627 | 18 | 53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-3D (bg) | -0.0008036 | -74 | -53 | Yes | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-3I (bg) | 0 | -4 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-26I | -0.001377 | -50 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-26S | -0.00108 | -80 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-27I | -0.003166 | -59 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-27S | -0.003589 | -78 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-28I | 0 | 0 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-28S | -0.005296 | -59 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-29I | -0.00565 | -93 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-14S (bg) | 0 | -21 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-1D (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-1I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-2I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-30I (bg) | 0 | -5 | -44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-3D (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-3I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-26I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-26S | -0.00001414 | -24 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-27I | 0.000003256 | 15 | 44 | No | 14 | 21.43 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-27S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-28I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-28S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|--|----------------------|------------------|-------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Beryllium (mg/L) | YGWC-29I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-14S (bg) | 0 | 3 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-1D (bg) | 0 | 5 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-1I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-2I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-30I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-3D (bg) | 0 | 5 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-3I (bg) | 0 | 5 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-26I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-26S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-27I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-27S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-28I | 0.00001653 | 24 | 44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-28S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-29I | 0.000006972 | 16 | 44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-14S (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-1D (bg) | 0 | -23 | -44 | No | 14 | 64.29 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-1I (bg) | 0 | -24 | -44 | No | 14 | 71.43 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-2I (bg) | 0 | -6 | -44 | No | 14 | 78.57 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-30I (bg) | 0 | 1 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-3D (bg) | 0 | 8 | 44 | No | 14 | 78.57 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-3I (bg) | 0 | -5 | -44 | No | 14 | 85.71 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-26I | -0.00005034 | -29 | -44 | No | 14 | 57.14 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-26S | -0.0000347 | -9 | -44 | No | 14 | 21.43 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-27I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-27S | 0 | -7 | -44 | No | 14 | 85.71 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-28I | 0 | -10 | -44 | No | 14 | 78.57 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-28S | 0 | -3 | -44 | No | 14 | 85.71 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-29I | 0 | 11 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-14S (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-1D (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-1I (bg) | -0.000004271 | -1 | -53 | No | 16 | 12.5 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-2I (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-30I (bg) | -0.003763 | -111 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-3D (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-3I (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-26I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-26S | -0.0002527 | -44 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-27I | 0.003813 | 63 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-27S | -0.00006569 | -38 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-28I | 0 | 15 | 53 | No | 16 | 93.75 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-28S | 0.00003557 | 17 | 53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-29I | 0 | 40 | 53 | No | 16 | 75 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-14S (bg) | -0.05778 | -22 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-1D (bg) | 0.1682 | 51 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-1I (bg) | 0.08289 | 14 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-2I (bg) | 0.08716 | 28 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-30I (bg) | 0.09857 | 31 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-3D (bg) | 0.2698 | 38 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-3I (bg) | 0.3365 | 43 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | 0.3153 | 45 | 48 | No | 15 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26S | 0.06116 | 34 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27I | 0.4428 | 40 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27S | 0.1318 | 40 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | 0.206 | 64 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------------------------|----------------------|-------------------|------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Combined Radium 226 + 228 (pCi/L) | YGWC-28S | 0.1341 | 34 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-29I | -0.01224 | -2 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-14S (bg) | 0 | 14 | 58 | No | 17 | 94.12 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-1D (bg) | -0.004818 | -21 | -58 | No | 17 | 35.29 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-1I (bg) | 0 | 17 | 58 | No | 17 | 88.24 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-2I (bg) | 0 | 6 | 58 | No | 17 | 23.53 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-30I (bg) | 0 | 14 | 58 | No | 17 | 94.12 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3D (bg) | -0.02531 | -61 | -58 | Yes | 17 | 5.882 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3I (bg) | -0.01022 | -25 | -58 | No | 17 | 29.41 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-26I | 0 | -3 | -58 | No | 17 | 47.06 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-26S | 0 | 13 | 58 | No | 17 | 64.71 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-27I | 0 | 11 | 58 | No | 17 | 70.59 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-27S | -0.03338 | -38 | -58 | No | 17 | 17.65 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-28I | -0.0009203 | -14 | -58 | No | 17 | 29.41 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-28S | -0.02391 | -30 | -58 | No | 17 | 11.76 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-29I | -0.005777 | -36 | -58 | No | 17 | 41.18 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-14S (bg) | 0 | 1 | 35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-1D (bg) | 0 | -4 | -35 | No | 12 | 58.33 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-1I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-2I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-30I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-3D (bg) | 0 | 14 | 35 | No | 12 | 58.33 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-3I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-26I | 0 | -11 | -35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-26S | 0 | -13 | -35 | No | 12 | 83.33 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-27I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-27S | 0 | -14 | -35 | No | 12 | 75 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-28I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-28S | 0 | -22 | -35 | No | 12 | 75 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-29I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-14S (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-1D (bg) | -0.001625 | -47 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-1I (bg) | -0.00007918 | -41 | -53 | No | 16 | 18.75 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-2I (bg) | -0.0005677 | -53 | -53 | No | 16 | 12.5 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-30I (bg) | -0.007672 | -54 | -53 | Yes | 16 | 56.25 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-3D (bg) | 0.0005207 | 37 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-3I (bg) | 0.0005239 | 27 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-26I | 0.0001336 | 40 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-26S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-27I | -0.00005456 | -4 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-27S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-28I | -0.00009645 | -34 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-28S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-29I | -0.0005137 | -61 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-14S (bg) | 0 | -6 | -39 | No | 13 | 92.31 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-1D (bg) | 0 | -15 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-1I (bg) | 0 | -6 | -39 | No | 13 | 92.31 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-2I (bg) | 0 | 0 | 39 | No | 13 | 100 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-30I (bg) | 0 | -13 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-3D (bg) | 0 | -13 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-3I (bg) | 0 | -13 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-26I | 0 | -14 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-26S | 0 | -13 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-27I | 0 | -15 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-27S | 0 | -15 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------------|---------------------|-------------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Mercury (mg/L) | YGWC-28I | 0 | -6 | -39 | No | 13 | 92.31 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-28S | 0 | -6 | -39 | No | 13 | 92.31 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-29I | 0 | -15 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-14S (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-1D (bg) | -0.0008772 | -70 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-1I (bg) | -0.001096 | -76 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-2I (bg) | 0.00004235 | 4 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-30I (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-3D (bg) | 0.0008155 | 70 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-3I (bg) | -0.0001073 | -6 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-26I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-26S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-27I | 0 | -3 | -53 | No | 16 | 62.5 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-27S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-28I | 0 | -5 | -53 | No | 16 | 56.25 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-28S | 0 | 17 | 53 | No | 16 | 87.5 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-29I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-14S (bg) | 0 | 35 | 44 | No | 14 | 64.29 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-1D (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-1I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-2I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-30I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-3D (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-3I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-26I | 0 | -5 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-26S | 0 | 35 | 44 | No | 14 | 71.43 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-27I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-27S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-28I | 0 | 3 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-28S | 0 | 9 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-29I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-14S (bg) | 0 | -9 | -35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-1D (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-1I (bg) | 0 | -9 | -35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-2I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-30I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-3D (bg) | 0 | 9 | 35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-3I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-26I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-26S | 0 | -21 | -35 | No | 12 | 83.33 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-27I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-27S | 0 | -5 | -35 | No | 12 | 50 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-28I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-28S | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-29I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |

Appendix III Interwell Prediction Limits Summary Table - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:55 PM

| Constituent | Well | Upper Lim. | Lower Lim | Date | Observ. | Sig. | Bq | NBq | Mean | Std. Dev. | %NDs | ND Adj. | Alpha | Method |
|-----------------|----------|------------|-----------|-----------|---------|------|----|-------|-------|-----------|-------|----------|--------------------|-----------------------------|
| Boron (mg/L) | YGWC-26I | 0.04 | n/a | 3/20/2020 | 0.94 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-26S | 0.04 | n/a | 3/19/2020 | 0.73 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27I | 0.04 | n/a | 3/20/2020 | 2.1 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27S | 0.04 | n/a | 3/20/2020 | 1.4 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28I | 0.04 | n/a | 3/19/2020 | 2.4 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28S | 0.04 | n/a | 3/19/2020 | 2.5 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-29I | 0.04 | n/a | 3/20/2020 | 0.8 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | YGWC-27S | 31.5 | n/a | 3/20/2020 | 42.1 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-28I | 31.5 | n/a | 3/19/2020 | 37.3 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-26I | 5.2 | n/a | 3/20/2020 | 17.7 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-26S | 5.2 | n/a | 3/19/2020 | 15.4 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27I | 5.2 | n/a | 3/20/2020 | 13 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27S | 5.2 | n/a | 3/20/2020 | 17.7 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-28I | 5.2 | n/a | 3/19/2020 | 16 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-28S | 5.2 | n/a | 3/19/2020 | 18.1 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-29I | 5.2 | n/a | 3/20/2020 | 11.3 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-26I | 12.46 | n/a | 3/20/2020 | 84.7 | Yes | 98 | 6.415 | 3.211 | 2.041 | None | 0.001075 | Param Inter 1 of 2 | |
| Sulfate (mg/L) | YGWC-26S | 12.46 | n/a | 3/19/2020 | 99.4 | Yes | 98 | 6.415 | 3.211 | 2.041 | None | 0.001075 | Param Inter 1 of 2 | |
| Sulfate (mg/L) | YGWC-27S | 12.46 | n/a | 3/20/2020 | 21.1 | Yes | 98 | 6.415 | 3.211 | 2.041 | None | 0.001075 | Param Inter 1 of 2 | |
| Sulfate (mg/L) | YGWC-29I | 12.46 | n/a | 3/20/2020 | 33 | Yes | 98 | 6.415 | 3.211 | 2.041 | None | 0.001075 | Param Inter 1 of 2 | |

Appendix III Interwell Prediction Limits Summary Table - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:55 PM

| Constituent | Well | Upper Lim. | Lower Lim | Date | Observ. | Sig. | Bq | N | Bq Mean | Std. Dev. | %NDs | ND Adj. | Alpha | Method |
|-------------------------------|-----------------|--------------|-----------|------------------|-------------|------------|-----------|--------------|--------------|--------------|--------------|-------------|------------------|------------------------------------|
| Boron (mg/L) | YGWC-26I | 0.04 | n/a | 3/20/2020 | 0.94 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-26S | 0.04 | n/a | 3/19/2020 | 0.73 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27I | 0.04 | n/a | 3/20/2020 | 2.1 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27S | 0.04 | n/a | 3/20/2020 | 1.4 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28I | 0.04 | n/a | 3/19/2020 | 2.4 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28S | 0.04 | n/a | 3/19/2020 | 2.5 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-29I | 0.04 | n/a | 3/20/2020 | 0.8 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | YGWC-26I | 31.5 | n/a | 3/20/2020 | 17.1 | No | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-26S | 31.5 | n/a | 3/19/2020 | 13 | No | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-27I | 31.5 | n/a | 3/20/2020 | 30.3 | No | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-27S | 31.5 | n/a | 3/20/2020 | 42.1 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-28I | 31.5 | n/a | 3/19/2020 | 37.3 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-28S | 31.5 | n/a | 3/19/2020 | 30.4 | No | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-29I | 31.5 | n/a | 3/20/2020 | 12.7 | No | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-26I | 5.2 | n/a | 3/20/2020 | 17.7 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-26S | 5.2 | n/a | 3/19/2020 | 15.4 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27I | 5.2 | n/a | 3/20/2020 | 13 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27S | 5.2 | n/a | 3/20/2020 | 17.7 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-28I | 5.2 | n/a | 3/19/2020 | 16 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-28S | 5.2 | n/a | 3/19/2020 | 18.1 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-29I | 5.2 | n/a | 3/20/2020 | 11.3 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | YGWC-26I | 0.68 | n/a | 3/20/2020 | 0.06 | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-26S | 0.68 | n/a | 3/19/2020 | 0.3ND | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-27I | 0.68 | n/a | 3/20/2020 | 0.3ND | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-27S | 0.68 | n/a | 3/20/2020 | 0.097 | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-28I | 0.68 | n/a | 3/19/2020 | 0.07 | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-28S | 0.68 | n/a | 3/19/2020 | 0.16 | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-29I | 0.68 | n/a | 3/20/2020 | 0.057 | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| pH (S.U.) | YGWC-26I | 7.91 | 5.02 | 3/20/2020 | 5.94 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-26S | 7.91 | 5.02 | 3/19/2020 | 5.46 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-27I | 7.91 | 5.02 | 3/20/2020 | 6.32 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-27S | 7.91 | 5.02 | 3/20/2020 | 6.18 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-28I | 7.91 | 5.02 | 3/19/2020 | 7.01 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-28S | 7.91 | 5.02 | 3/19/2020 | 6.98 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-29I | 7.91 | 5.02 | 3/20/2020 | 6.17 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-26I | 12.46 | n/a | 3/20/2020 | 84.7 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-26S | 12.46 | n/a | 3/19/2020 | 99.4 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-27I | 12.46 | n/a | 3/20/2020 | 5.2 | No | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-27S | 12.46 | n/a | 3/20/2020 | 21.1 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-28I | 12.46 | n/a | 3/19/2020 | 9.1 | No | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-28S | 12.46 | n/a | 3/19/2020 | 1.7 | No | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-29I | 12.46 | n/a | 3/20/2020 | 33 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-26I | 223 | n/a | 3/20/2020 | 211 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-26S | 223 | n/a | 3/19/2020 | 194 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-27I | 223 | n/a | 3/20/2020 | 195 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-27S | 223 | n/a | 3/20/2020 | 182 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-28I | 223 | n/a | 3/19/2020 | 212 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-28S | 223 | n/a | 3/19/2020 | 202 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-29I | 223 | n/a | 3/20/2020 | 137 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |

Appendix III Trend Tests - PL Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:59 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|---------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Calcium (mg/L) | YGWA-14S (bg) | -0.05271 | -60 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1D (bg) | 1.11 | 48 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-26S | -1.022 | -55 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-27S | -0.9221 | -63 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-29I | -0.605 | -47 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1D (bg) | 1.261 | 51 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3D (bg) | 0.7245 | 46 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-27S | -2.238 | -55 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-29I | -0.6353 | -49 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |

Appendix III Trend Tests - PL Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:59 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|------------------------|----------------------|-----------------|------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron (mg/L) | YGWA-14S (bg) | -0.002489 | -37 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-1D (bg) | -0.001025 | -26 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-1I (bg) | 0 | -33 | -44 | No | 14 | 64.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-2I (bg) | 0 | -26 | -44 | No | 14 | 71.43 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-30I (bg) | 0 | -19 | -44 | No | 14 | 85.71 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-3D (bg) | 0 | -13 | -44 | No | 14 | 57.14 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-3I (bg) | 0 | -13 | -44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-26I | -0.01726 | -15 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-26S | 0.005659 | 17 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-27I | 0.02751 | 6 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-27S | 0.02086 | 19 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-28I | 0.1086 | 27 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-28S | 0.08094 | 21 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-29I | -0.01791 | -35 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-14S (bg) | -0.05271 | -60 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1D (bg) | 1.11 | 48 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1I (bg) | -0.1025 | -37 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-2I (bg) | 0.9579 | 31 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-30I (bg) | -0.0134 | -7 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-3D (bg) | 1.219 | 40 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-3I (bg) | 0.4381 | 18 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWC-27S | 0.4551 | 10 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWC-28I | -0.3982 | -15 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-14S (bg) | 0 | 6 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-1D (bg) | 0 | -11 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-1I (bg) | 0 | -5 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-2I (bg) | -0.03701 | -16 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-30I (bg) | 0 | 4 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-3D (bg) | -0.07067 | -33 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-3I (bg) | -0.04953 | -37 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-26I | 0 | -9 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-26S | -1.022 | -55 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-27I | 0 | 13 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-27S | -0.9221 | -63 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-28I | -0.215 | -39 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-28S | 0.02755 | 11 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-29I | -0.605 | -47 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-14S (bg) | 0.3425 | 40 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1D (bg) | 1.261 | 51 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1I (bg) | -0.1237 | -7 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-2I (bg) | 0 | 0 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-30I (bg) | -0.05321 | -7 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3D (bg) | 0.7245 | 46 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3I (bg) | 0.6413 | 31 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-26I | 0.7464 | 13 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-26S | -0.5868 | -29 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-27S | -2.238 | -55 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-29I | -0.6353 | -49 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |

Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:01 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|------|------------|------------|------|---------|------|------|---------|-----------|-------|---------|-----------|----------|---------------------|
| Antimony (mg/L) | n/a | 0.0030 | n/a | n/a | n/a | n/a | 84 | n/a | n/a | 78.57 | n/a | n/a | 0.01345 | NP Inter(NDs) |
| Arsenic (mg/L) | n/a | 0.0050 | n/a | n/a | n/a | n/a | 112 | n/a | n/a | 68.75 | n/a | n/a | 0.003199 | NP Inter(NDs) |
| Barium (mg/L) | n/a | 0.012 | n/a | n/a | n/a | n/a | 112 | n/a | n/a | 6.25 | n/a | n/a | 0.003199 | NP Inter(normality) |
| Beryllium (mg/L) | n/a | 0.0030 | n/a | n/a | n/a | n/a | 98 | n/a | n/a | 86.73 | n/a | n/a | 0.00656 | NP Inter(NDs) |
| Cadmium (mg/L) | n/a | 0.0025 | n/a | n/a | n/a | n/a | 98 | n/a | n/a | 95.92 | n/a | n/a | 0.00656 | NP Inter(NDs) |
| Chromium (mg/L) | n/a | 0.010 | n/a | n/a | n/a | n/a | 98 | n/a | n/a | 81.63 | n/a | n/a | 0.00656 | NP Inter(NDs) |
| Cobalt (mg/L) | n/a | 0.035 | n/a | n/a | n/a | n/a | 112 | n/a | n/a | 73.21 | n/a | n/a | 0.003199 | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 4.1 | n/a | n/a | n/a | n/a | 112 | 0.9571 | 0.3376 | 0 | None | x^(1/3) | 0.05 | Inter |
| Fluoride (mg/L) | n/a | 0.68 | n/a | n/a | n/a | n/a | 119 | n/a | n/a | 52.94 | n/a | n/a | 0.002234 | NP Inter(NDs) |
| Lead (mg/L) | n/a | 0.0050 | n/a | n/a | n/a | n/a | 84 | n/a | n/a | 86.9 | n/a | n/a | 0.01345 | NP Inter(NDs) |
| Lithium (mg/L) | n/a | 0.030 | n/a | n/a | n/a | n/a | 112 | n/a | n/a | 26.79 | n/a | n/a | 0.003199 | NP Inter(normality) |
| Mercury (mg/L) | n/a | 0.00050 | n/a | n/a | n/a | n/a | 91 | n/a | n/a | 89.01 | n/a | n/a | 0.009394 | NP Inter(NDs) |
| Molybdenum (mg/L) | n/a | 0.014 | n/a | n/a | n/a | n/a | 112 | n/a | n/a | 28.57 | n/a | n/a | 0.003199 | NP Inter(normality) |
| Selenium (mg/L) | n/a | 0.010 | n/a | n/a | n/a | n/a | 98 | n/a | n/a | 94.9 | n/a | n/a | 0.00656 | NP Inter(NDs) |
| Thallium (mg/L) | n/a | 0.0010 | n/a | n/a | n/a | n/a | 84 | n/a | n/a | 96.43 | n/a | n/a | 0.01345 | NP Inter(NDs) |

| YATES ASH POND 2 GWPS - FEDERAL | | | | |
|--|------------|---------------------------|-------------------------|-------------|
| Constituent Name | MCL | CCR Rule-Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.003 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.012 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.003 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.0025 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.01 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.035 | 0.035 |
| Combined Radium, Total (pCi/L) | 5 | | 4.1 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.68 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.005 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.03 | 0.04 |
| Mercury, Total (mg/L) | 0.002 | | 0.0005 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.014 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.01 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

*Grey cell indicates ACL is higher than MCL or CCR Rule-specified level

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residual

*GWPS = Groundwater Protection Standard

| YATES ASH POND 2 GWPS - STATE | | | | |
|--------------------------------------|------------|---------------------------|-------------------------|-------------|
| Constituent Name | MCL | CCR Rule-Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.003 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.012 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.003 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.0025 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.01 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.035 | 0.035 |
| Combined Radium, Total (pCi/L) | 5 | | 4.1 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.68 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.005 | 0.005 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.03 | 0.03 |
| Mercury, Total (mg/L) | 0.002 | | 0.0005 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.014 | 0.014 |
| Selenium, Total (mg/L) | 0.05 | | 0.01 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

*Grey cell indicates ACL 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

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:10 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 | 12 | 0.002593 | 0.0009518 | 83.33 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-26S | 0.003 | 0.0017 | 0.006 | No | 12 | 0.002775 | 0.0005259 | 83.33 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27I | 0.003 | 0.00033 | 0.006 | No | 12 | 0.002778 | 0.0007708 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27S | 0.003 | 0.0003 | 0.006 | No | 12 | 0.002775 | 0.0007794 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-27I | 0.005 | 0.00058 | 0.01 | No | 16 | 0.00284 | 0.002236 | 50 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | YGWC-28S | 0.005 | 0.00065 | 0.01 | No | 16 | 0.002844 | 0.002228 | 50 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-26I | 0.06702 | 0.06349 | 2 | No | 16 | 0.06526 | 0.002713 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-26S | 0.02866 | 0.02645 | 2 | No | 16 | 0.02756 | 0.0017 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-27I | 0.0728 | 0.063 | 2 | No | 16 | 0.06765 | 0.006649 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-27S | 0.108 | 0.096 | 2 | No | 16 | 0.1018 | 0.007225 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-28I | 0.0915 | 0.0862 | 2 | No | 16 | 0.08876 | 0.003645 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-28S | 0.2177 | 0.2027 | 2 | No | 16 | 0.2102 | 0.01155 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-29I | 0.0732 | 0.06226 | 2 | No | 16 | 0.06773 | 0.008408 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | YGWC-26S | 0.003 | 0.00011 | 0.004 | No | 14 | 0.000565 | 0.001032 | 14.29 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | YGWC-27I | 0.003 | 0.0001 | 0.004 | No | 14 | 0.0007907 | 0.001198 | 21.43 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | YGWC-28I | 0.00055 | 0.00009 | 0.005 | No | 14 | 0.0003343 | 0.0004118 | 14.29 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | YGWC-29I | 0.00026 | 0.0001 | 0.005 | No | 14 | 0.0003371 | 0.0003901 | 14.29 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | YGWC-26I | 0.01 | 0.0006 | 0.1 | No | 14 | 0.006294 | 0.004571 | 57.14 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-26S | 0.002761 | 0.001323 | 0.1 | No | 14 | 0.003943 | 0.003491 | 21.43 | Kaplan-Meier | In(x) | 0.01 | Param. |
| Chromium (mg/L) | YGWC-27S | 0.015 | 0.0005 | 0.1 | No | 14 | 0.009679 | 0.002959 | 85.71 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28I | 0.01 | 0.0005 | 0.1 | No | 14 | 0.007958 | 0.004058 | 78.57 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28S | 0.01 | 0.0005 | 0.1 | No | 14 | 0.008642 | 0.003452 | 85.71 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-29I | 0.01 | 0.0005 | 0.1 | No | 14 | 0.009321 | 0.002539 | 92.86 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-26S | 0.002891 | 0.001983 | 0.035 | No | 16 | 0.0025 | 0.0008446 | 6.25 | None | In(x) | 0.01 | Param. |
| Cobalt (mg/L) | YGWC-27I | 0.0495 | 0.0017 | 0.035 | No | 16 | 0.02107 | 0.02867 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-27S | 0.0026 | 0.0022 | 0.035 | No | 16 | 0.002544 | 0.0006723 | 6.25 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-28I | 0.005 | 0.00042 | 0.035 | No | 16 | 0.004714 | 0.001145 | 93.75 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-28S | 0.0012 | 0.00085 | 0.035 | No | 16 | 0.001263 | 0.001007 | 6.25 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-29I | 0.005 | 0.0006 | 0.035 | No | 16 | 0.003882 | 0.002 | 75 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | 1.231 | 0.4873 | 5 | No | 15 | 0.8594 | 0.5491 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26S | 0.9282 | 0.5491 | 5 | No | 16 | 0.7387 | 0.2913 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27I | 4.272 | 2.921 | 5 | No | 16 | 3.596 | 1.038 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27S | 1.087 | 0.6697 | 5 | No | 16 | 0.8785 | 0.3209 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | 0.948 | 0.245 | 5 | No | 16 | 0.6106 | 0.348 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28S | 0.9165 | 0.4416 | 5 | No | 16 | 0.6791 | 0.365 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-29I | 1.199 | 0.6989 | 5 | No | 16 | 0.9488 | 0.384 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-26I | 0.3 | 0.071 | 4 | No | 17 | 0.1822 | 0.1152 | 47.06 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-26S | 0.35 | 0.24 | 4 | No | 17 | 0.2685 | 0.1021 | 64.71 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | YGWC-27I | 0.3 | 0.086 | 4 | No | 17 | 0.2394 | 0.09945 | 70.59 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | YGWC-27S | 0.2457 | 0.1134 | 4 | No | 17 | 0.2113 | 0.1111 | 17.65 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-28I | 0.3 | 0.08 | 4 | No | 17 | 0.1956 | 0.1074 | 29.41 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-28S | 0.3044 | 0.1886 | 4 | No | 17 | 0.2465 | 0.09239 | 11.76 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-29I | 0.3 | 0.059 | 4 | No | 17 | 0.1693 | 0.1149 | 41.18 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | YGWC-26I | 0.005 | 0.000059 | 0.015 | No | 12 | 0.004588 | 0.001426 | 91.67 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-26S | 0.005 | 0.0001 | 0.015 | No | 12 | 0.004182 | 0.001911 | 83.33 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-27S | 0.005 | 0.000085 | 0.015 | No | 12 | 0.003779 | 0.002209 | 75 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-28S | 0.005 | 0.00007 | 0.015 | No | 12 | 0.003767 | 0.002231 | 75 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | YGWC-26I | 0.007022 | 0.006453 | 0.04 | No | 16 | 0.006738 | 0.000438 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-27I | 0.01085 | 0.008414 | 0.04 | No | 16 | 0.009631 | 0.001871 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-28I | 0.007106 | 0.006657 | 0.04 | No | 16 | 0.006881 | 0.0003449 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-29I | 0.006631 | 0.005481 | 0.04 | No | 16 | 0.006056 | 0.0008839 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | YGWC-27I | 0.01 | 0.0013 | 0.1 | No | 16 | 0.006756 | 0.004328 | 62.5 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-28I | 0.01 | 0.0013 | 0.1 | No | 16 | 0.006206 | 0.004443 | 56.25 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-28S | 0.01 | 0.0007 | 0.1 | No | 16 | 0.008831 | 0.003194 | 87.5 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-26I | 0.0023 | 0.0017 | 0.05 | No | 14 | 0.003071 | 0.002941 | 14.29 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | YGWC-26S | 0.01 | 0.0012 | 0.05 | No | 14 | 0.00745 | 0.004192 | 71.43 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28I | 0.01 | 0.0012 | 0.05 | No | 14 | 0.009371 | 0.002352 | 92.86 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28S | 0.01 | 0.001 | 0.05 | No | 14 | 0.009357 | 0.002405 | 92.86 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-26S | 0.001 | 0.000057 | 0.002 | No | 12 | 0.0008427 | 0.0003675 | 83.33 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-27S | 0.001 | 0.0001 | 0.002 | No | 12 | 0.0005525 | 0.0004674 | 50 | None | No | 0.01 | NP (normality) |

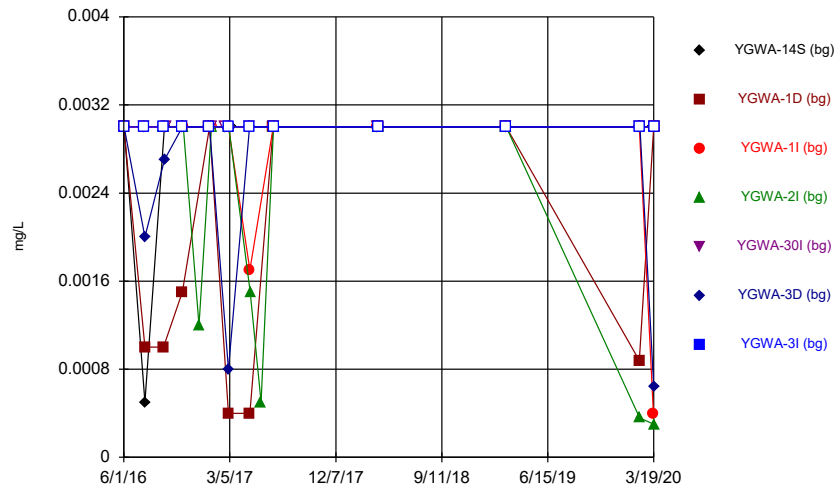
State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:07 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 | 12 | 0.002593 | 0.0009518 | 83.33 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-26S | 0.003 | 0.0017 | 0.006 | No | 12 | 0.002775 | 0.0005259 | 83.33 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27I | 0.003 | 0.00033 | 0.006 | No | 12 | 0.002778 | 0.0007708 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27S | 0.003 | 0.0003 | 0.006 | No | 12 | 0.002775 | 0.0007794 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-27I | 0.005 | 0.00058 | 0.01 | No | 16 | 0.00284 | 0.002236 | 50 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | YGWC-28S | 0.005 | 0.00065 | 0.01 | No | 16 | 0.002844 | 0.002228 | 50 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-26I | 0.06702 | 0.06349 | 2 | No | 16 | 0.06526 | 0.002713 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-26S | 0.02866 | 0.02645 | 2 | No | 16 | 0.02756 | 0.0017 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-27I | 0.0728 | 0.063 | 2 | No | 16 | 0.06765 | 0.006649 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-27S | 0.108 | 0.096 | 2 | No | 16 | 0.1018 | 0.007225 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-28I | 0.0915 | 0.0862 | 2 | No | 16 | 0.08876 | 0.003645 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-28S | 0.2177 | 0.2027 | 2 | No | 16 | 0.2102 | 0.01155 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-29I | 0.0732 | 0.06226 | 2 | No | 16 | 0.06773 | 0.008408 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | YGWC-26S | 0.003 | 0.00011 | 0.004 | No | 14 | 0.000565 | 0.001032 | 14.29 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | YGWC-27I | 0.003 | 0.0001 | 0.004 | No | 14 | 0.0007907 | 0.001198 | 21.43 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | YGWC-28I | 0.00055 | 0.00009 | 0.005 | No | 14 | 0.0003343 | 0.0004118 | 14.29 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | YGWC-29I | 0.00026 | 0.0001 | 0.005 | No | 14 | 0.0003371 | 0.0003901 | 14.29 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | YGWC-26I | 0.01 | 0.0006 | 0.1 | No | 14 | 0.006294 | 0.004571 | 57.14 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-26S | 0.002761 | 0.001323 | 0.1 | No | 14 | 0.003943 | 0.003491 | 21.43 | Kaplan-Meier | In(x) | 0.01 | Param. |
| Chromium (mg/L) | YGWC-27S | 0.015 | 0.0005 | 0.1 | No | 14 | 0.009679 | 0.002959 | 85.71 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28I | 0.01 | 0.0005 | 0.1 | No | 14 | 0.007958 | 0.004058 | 78.57 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28S | 0.01 | 0.0005 | 0.1 | No | 14 | 0.008642 | 0.003452 | 85.71 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-29I | 0.01 | 0.0005 | 0.1 | No | 14 | 0.009321 | 0.002539 | 92.86 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-26S | 0.002891 | 0.001983 | 0.035 | No | 16 | 0.0025 | 0.0008446 | 6.25 | None | In(x) | 0.01 | Param. |
| Cobalt (mg/L) | YGWC-27I | 0.0495 | 0.0017 | 0.035 | No | 16 | 0.02107 | 0.02867 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-27S | 0.0026 | 0.0022 | 0.035 | No | 16 | 0.002544 | 0.0006723 | 6.25 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-28I | 0.005 | 0.00042 | 0.035 | No | 16 | 0.004714 | 0.001145 | 93.75 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-28S | 0.0012 | 0.00085 | 0.035 | No | 16 | 0.001263 | 0.001007 | 6.25 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-29I | 0.005 | 0.0006 | 0.035 | No | 16 | 0.003882 | 0.002 | 75 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | 1.231 | 0.4873 | 5 | No | 15 | 0.8594 | 0.5491 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26S | 0.9282 | 0.5491 | 5 | No | 16 | 0.7387 | 0.2913 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27I | 4.272 | 2.921 | 5 | No | 16 | 3.596 | 1.038 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27S | 1.087 | 0.6697 | 5 | No | 16 | 0.8785 | 0.3209 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | 0.948 | 0.245 | 5 | No | 16 | 0.6106 | 0.348 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28S | 0.9165 | 0.4416 | 5 | No | 16 | 0.6791 | 0.365 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-29I | 1.199 | 0.6989 | 5 | No | 16 | 0.9488 | 0.384 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-26I | 0.3 | 0.071 | 4 | No | 17 | 0.1822 | 0.1152 | 47.06 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-26S | 0.35 | 0.24 | 4 | No | 17 | 0.2685 | 0.1021 | 64.71 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | YGWC-27I | 0.3 | 0.086 | 4 | No | 17 | 0.2394 | 0.09945 | 70.59 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | YGWC-27S | 0.2457 | 0.1134 | 4 | No | 17 | 0.2113 | 0.1111 | 17.65 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-28I | 0.3 | 0.08 | 4 | No | 17 | 0.1956 | 0.1074 | 29.41 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-28S | 0.3044 | 0.1886 | 4 | No | 17 | 0.2465 | 0.09239 | 11.76 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-29I | 0.3 | 0.059 | 4 | No | 17 | 0.1693 | 0.1149 | 41.18 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | YGWC-26I | 0.005 | 0.000059 | 0.005 | No | 12 | 0.004588 | 0.001426 | 91.67 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-26S | 0.005 | 0.0001 | 0.005 | No | 12 | 0.004182 | 0.001911 | 83.33 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-27S | 0.005 | 0.000085 | 0.005 | No | 12 | 0.003779 | 0.002209 | 75 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-28S | 0.005 | 0.00007 | 0.005 | No | 12 | 0.003767 | 0.002231 | 75 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | YGWC-26I | 0.007022 | 0.006453 | 0.03 | No | 16 | 0.006738 | 0.000438 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-27I | 0.01085 | 0.008414 | 0.03 | No | 16 | 0.009631 | 0.001871 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-28I | 0.007106 | 0.006657 | 0.03 | No | 16 | 0.006881 | 0.0003449 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-29I | 0.006631 | 0.005481 | 0.03 | No | 16 | 0.006056 | 0.0008839 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | YGWC-27I | 0.01 | 0.0013 | 0.014 | No | 16 | 0.006756 | 0.004328 | 62.5 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-28I | 0.01 | 0.0013 | 0.014 | No | 16 | 0.006206 | 0.004443 | 56.25 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-28S | 0.01 | 0.0007 | 0.014 | No | 16 | 0.008831 | 0.003194 | 87.5 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-26I | 0.0023 | 0.0017 | 0.05 | No | 14 | 0.003071 | 0.002941 | 14.29 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | YGWC-26S | 0.01 | 0.0012 | 0.05 | No | 14 | 0.00745 | 0.004192 | 71.43 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28I | 0.01 | 0.0012 | 0.05 | No | 14 | 0.009371 | 0.002352 | 92.86 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28S | 0.01 | 0.001 | 0.05 | No | 14 | 0.009357 | 0.002405 | 92.86 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-26S | 0.001 | 0.000057 | 0.002 | No | 12 | 0.0008427 | 0.0003675 | 83.33 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-27S | 0.001 | 0.0001 | 0.002 | No | 12 | 0.0005525 | 0.0004674 | 50 | None | No | 0.01 | NP (normality) |

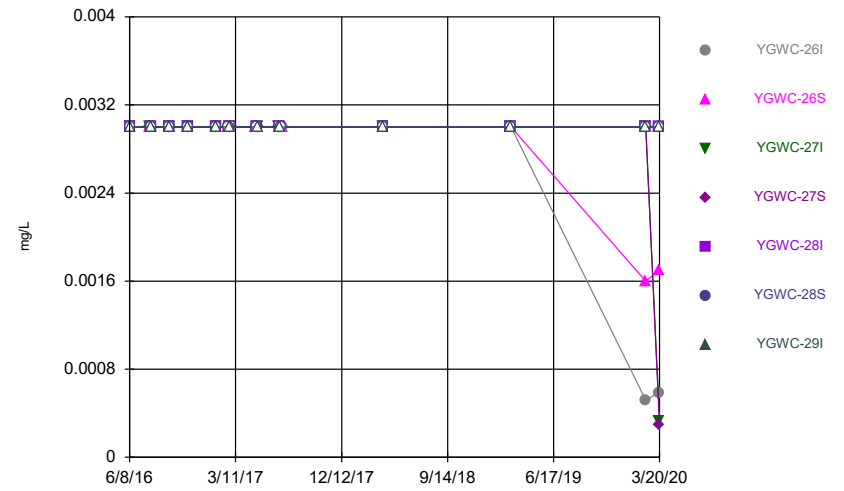
FIGURE A.

Time Series



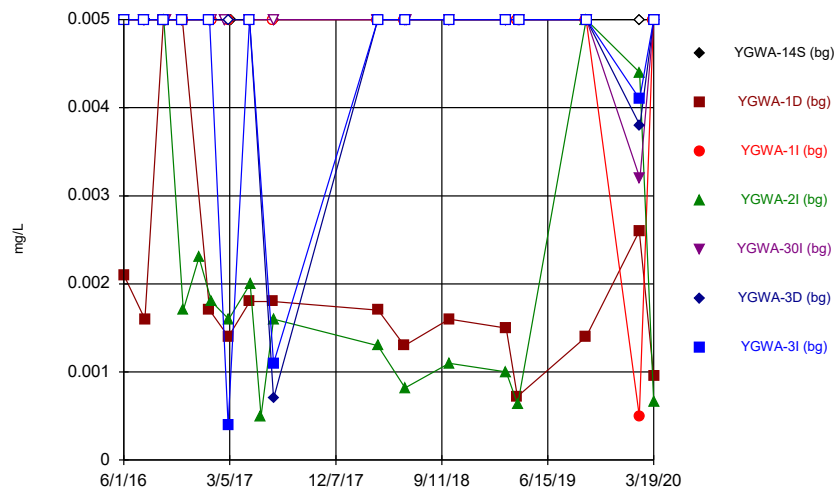
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



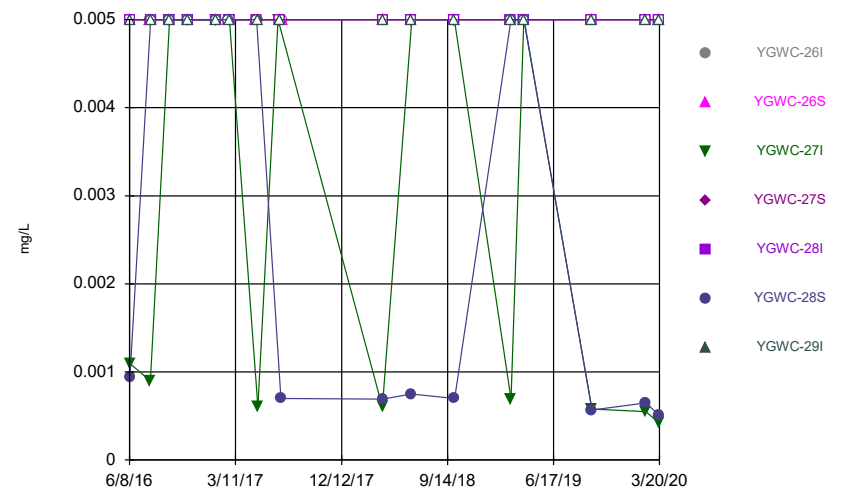
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Time Series



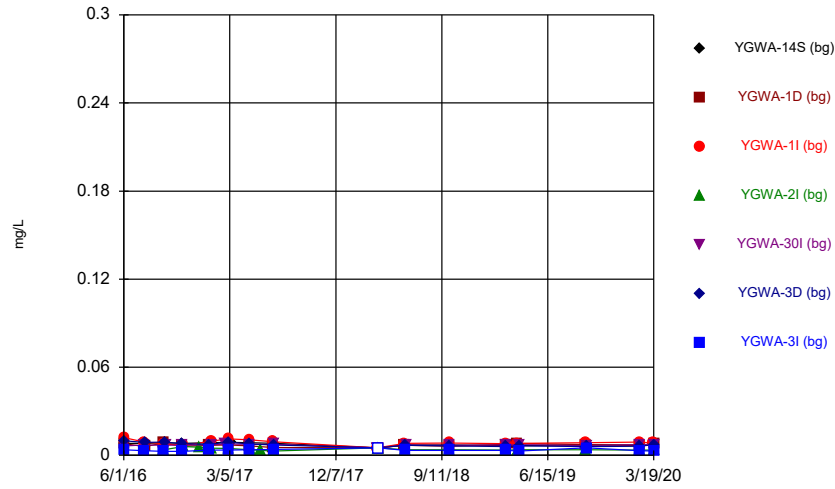
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Time Series



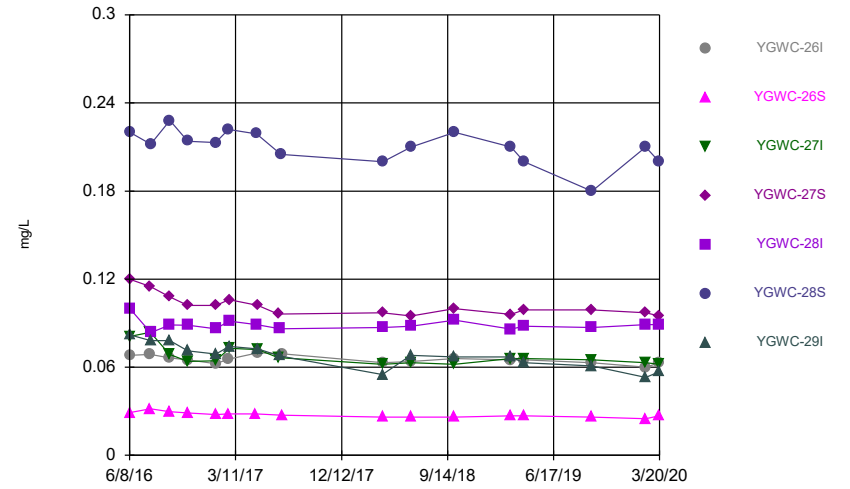
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Time Series



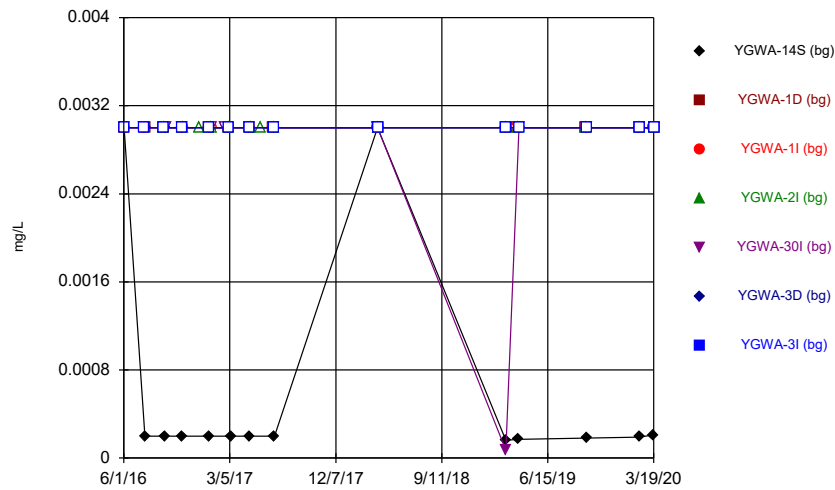
Constituent: Barium Analysis Run 5/12/2020 3:50 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



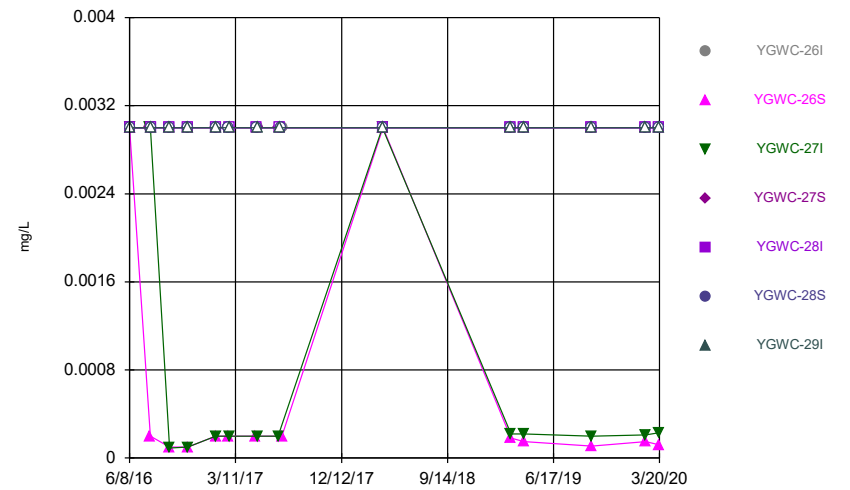
Constituent: Barium Analysis Run 5/12/2020 3:50 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



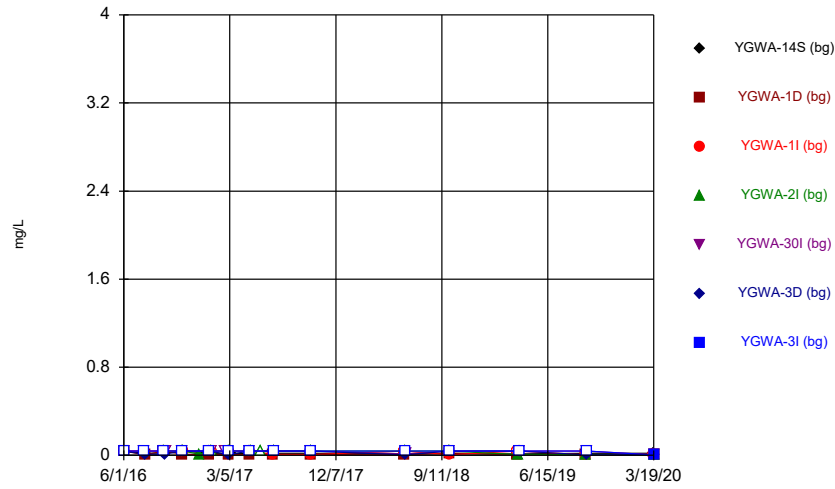
Constituent: Beryllium Analysis Run 5/12/2020 3:50 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



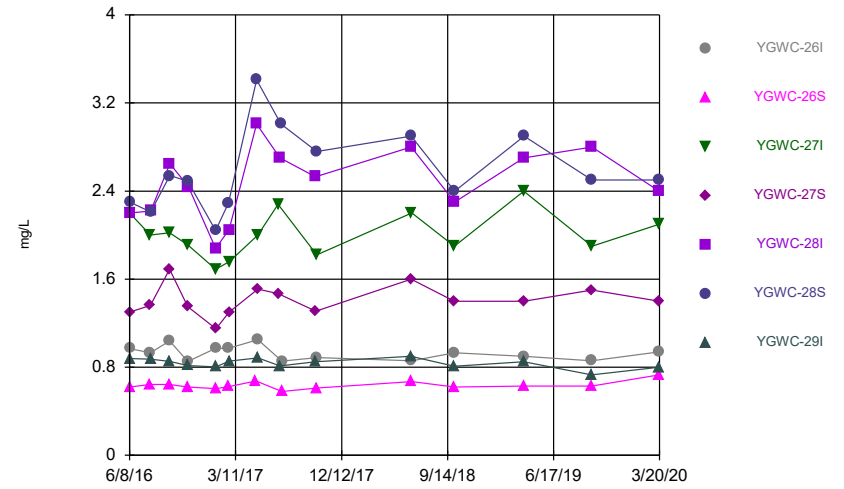
Constituent: Beryllium Analysis Run 5/12/2020 3:50 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



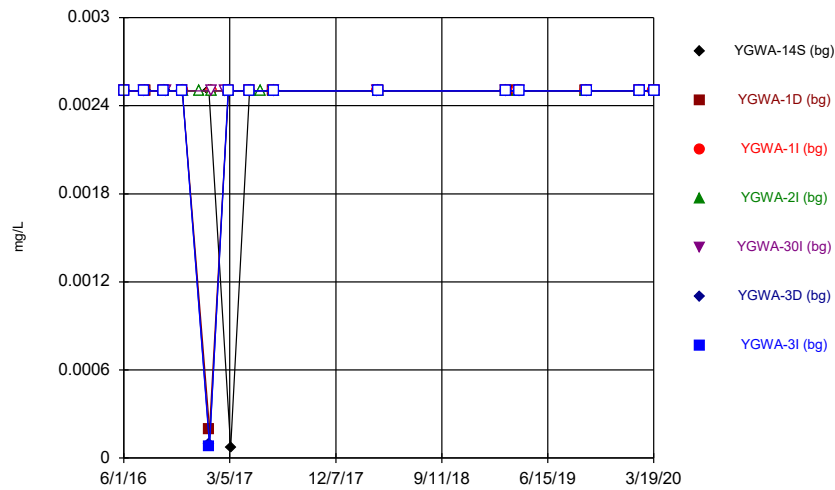
Constituent: Boron Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



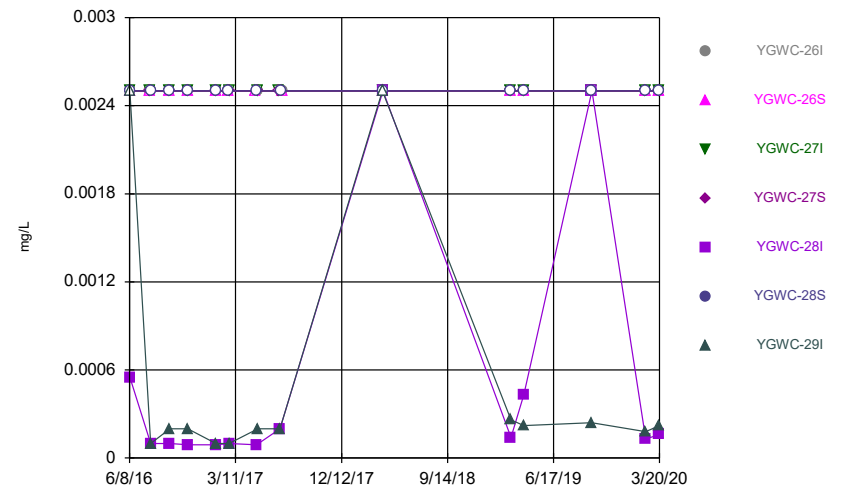
Constituent: Boron Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



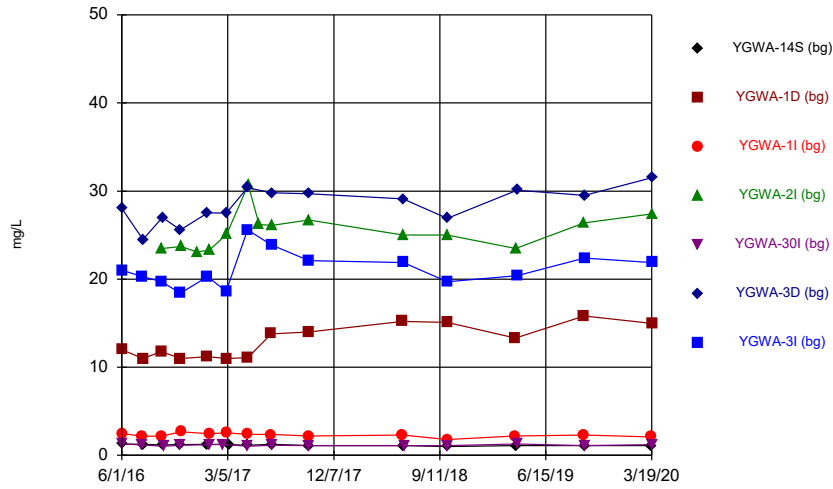
Constituent: Cadmium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



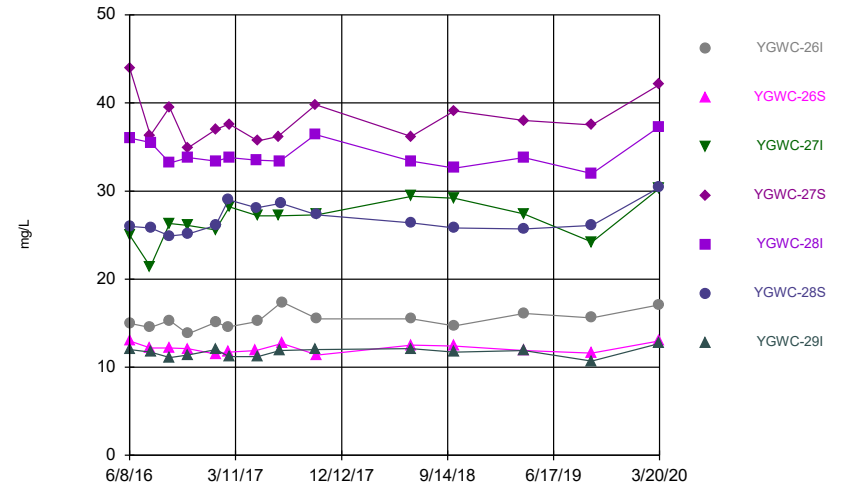
Constituent: Cadmium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



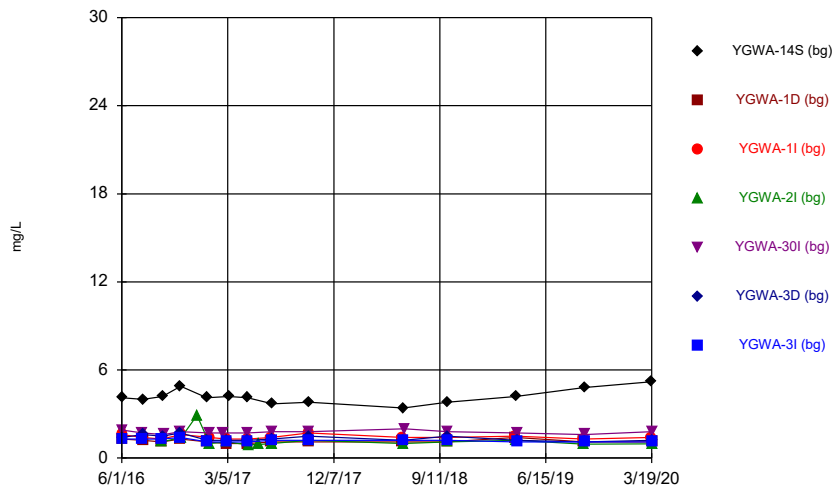
Constituent: Calcium Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



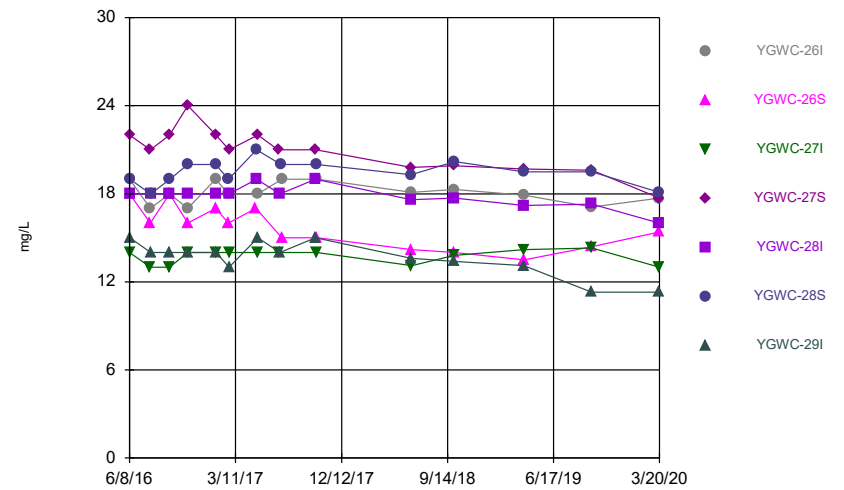
Constituent: Calcium Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



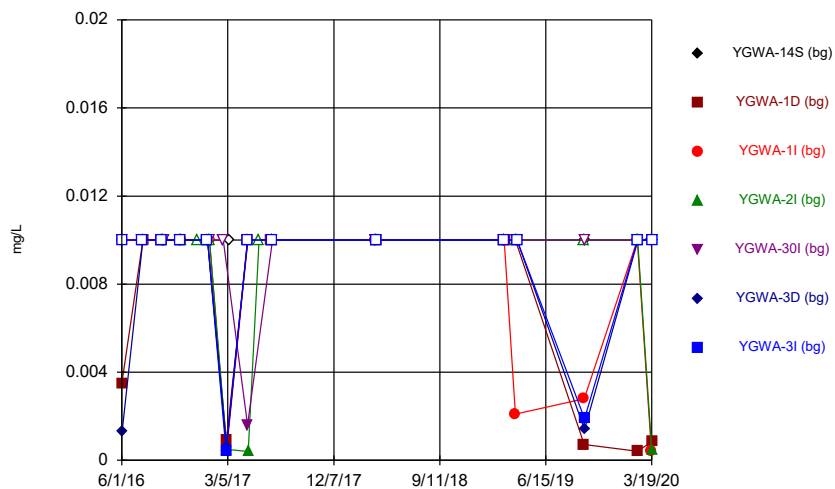
Constituent: Chloride Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



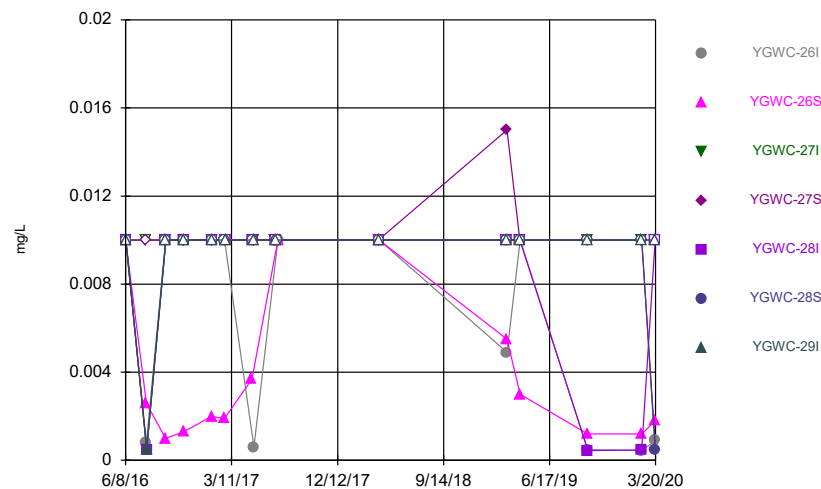
Constituent: Chloride Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



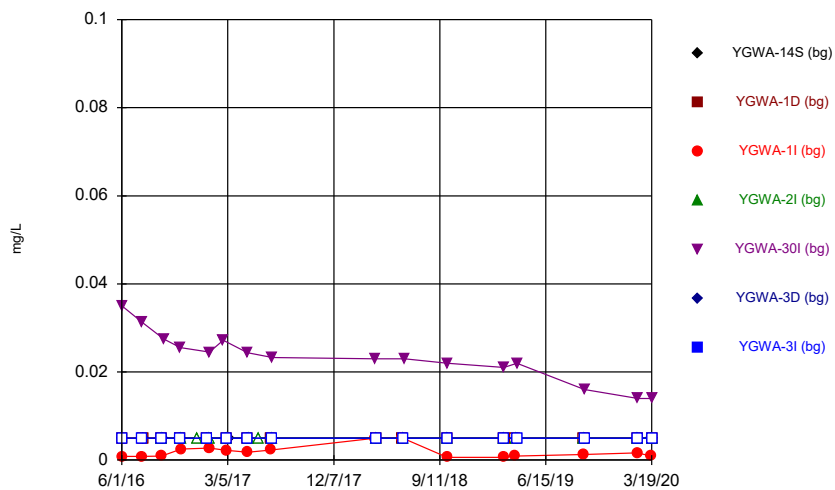
Constituent: Chromium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



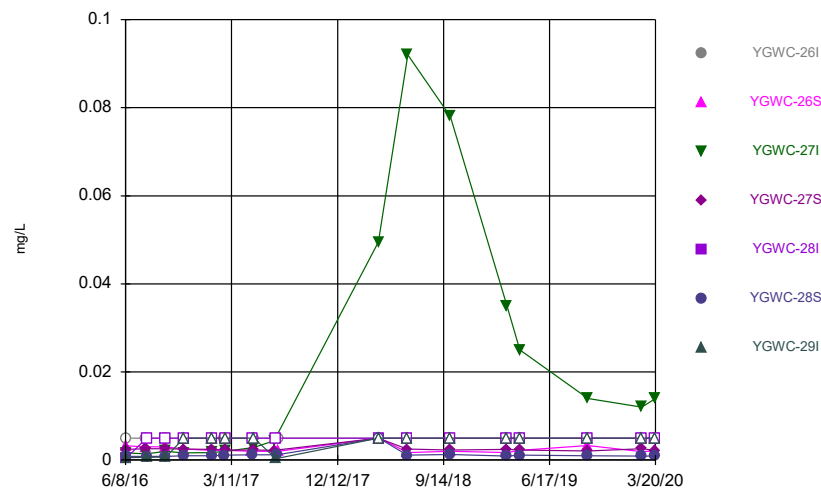
Constituent: Chromium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



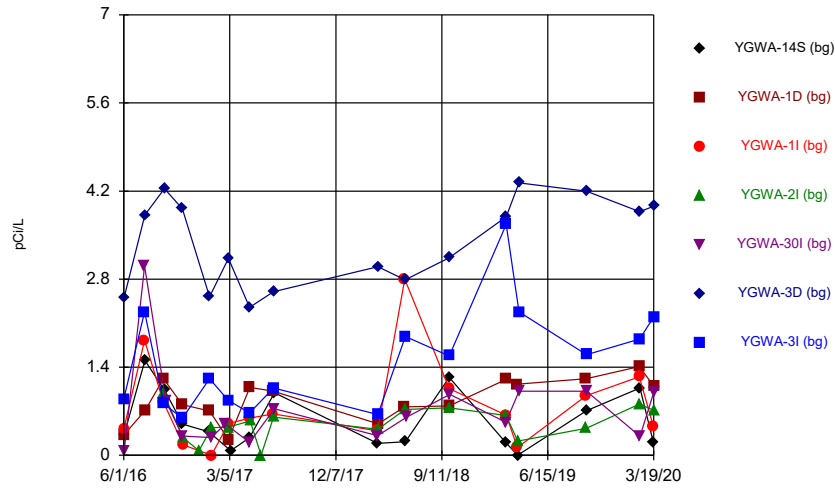
Constituent: Cobalt Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



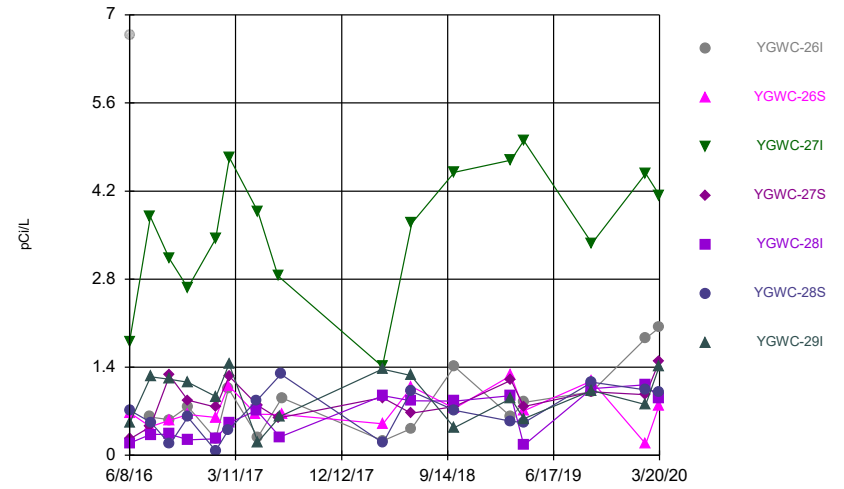
Constituent: Cobalt Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



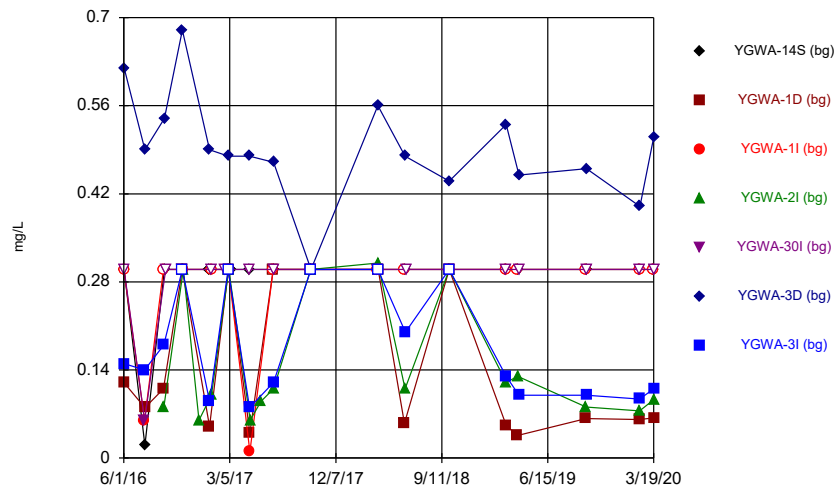
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



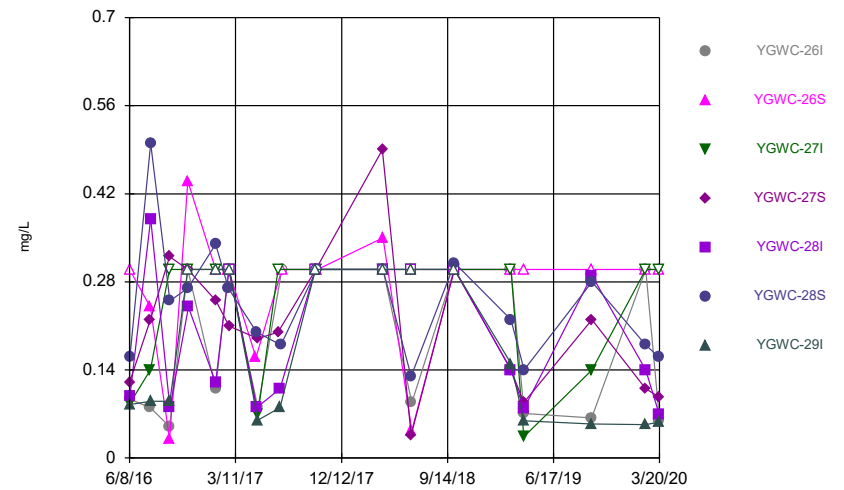
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



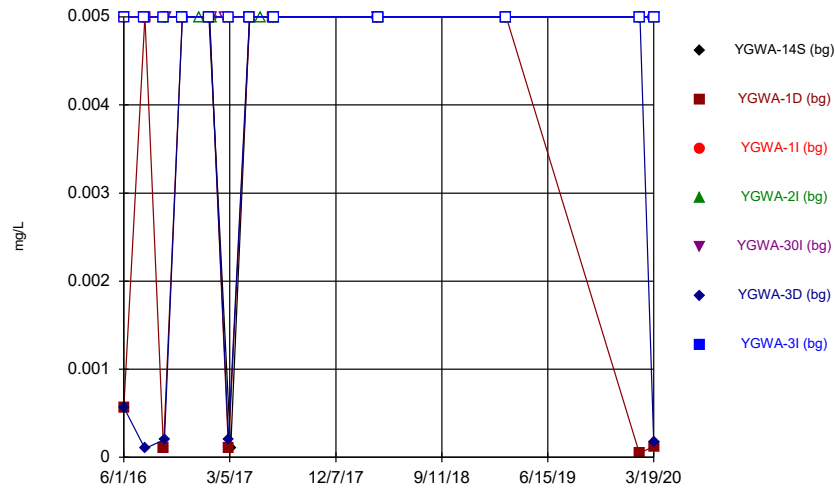
Constituent: Fluoride Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



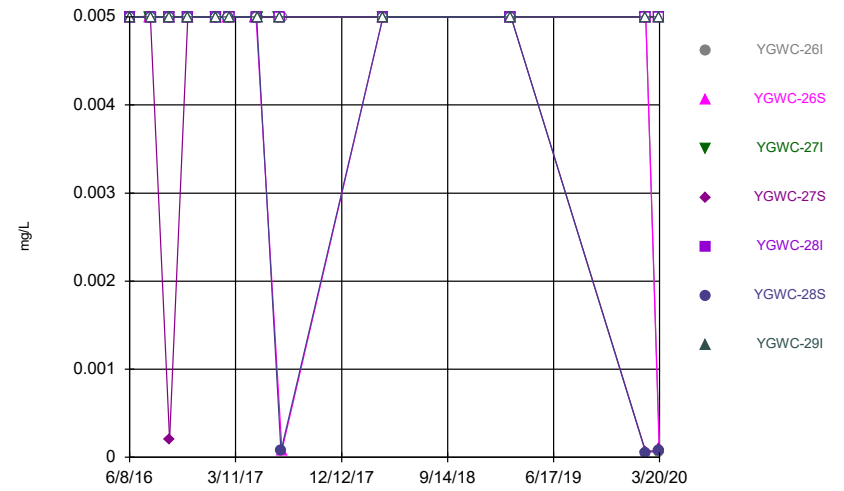
Constituent: Fluoride Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



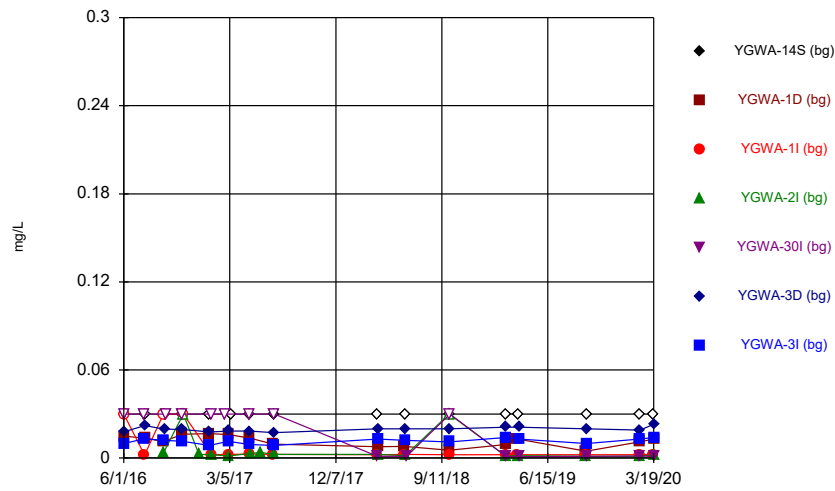
Constituent: Lead Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



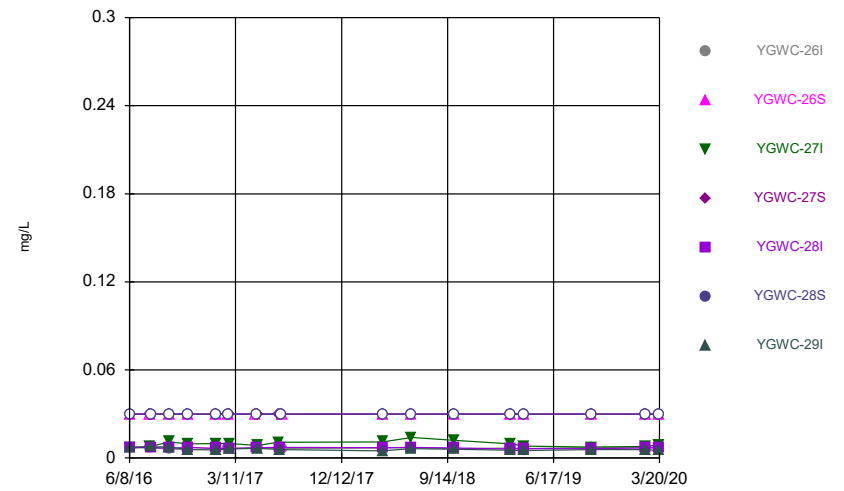
Constituent: Lead Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



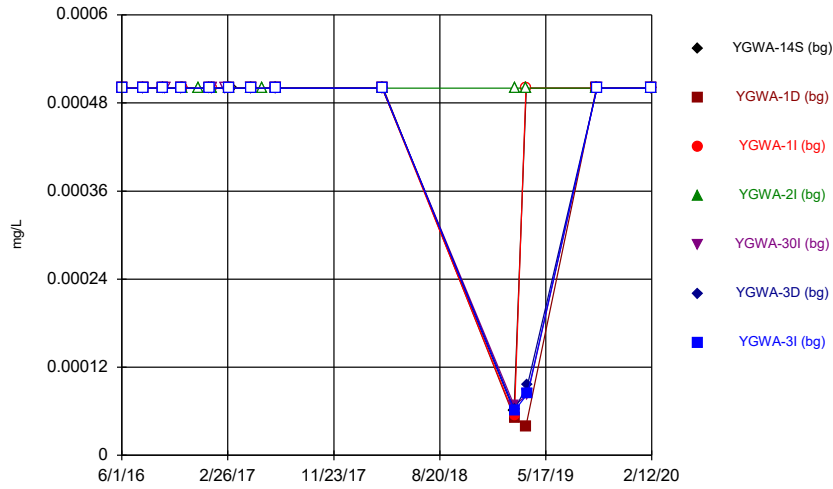
Constituent: Lithium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



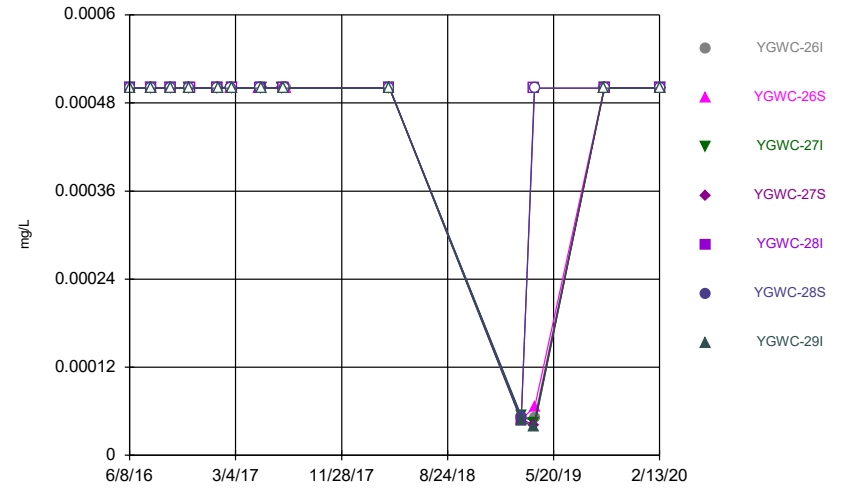
Constituent: Lithium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



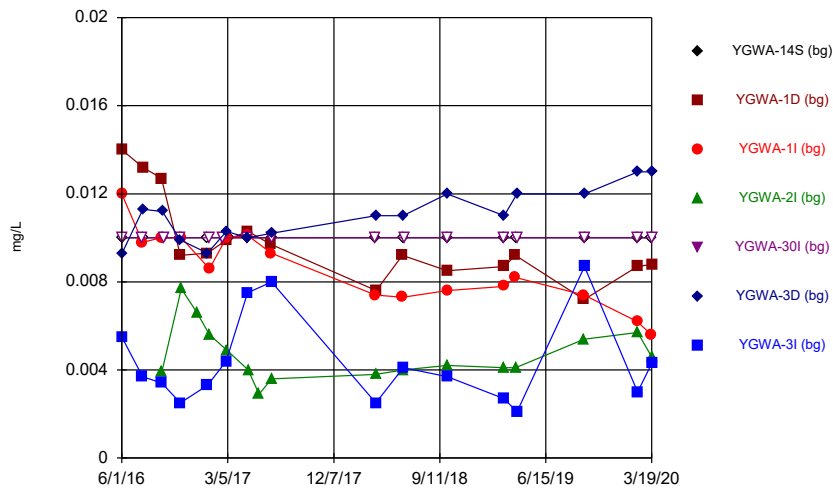
Constituent: Mercury Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



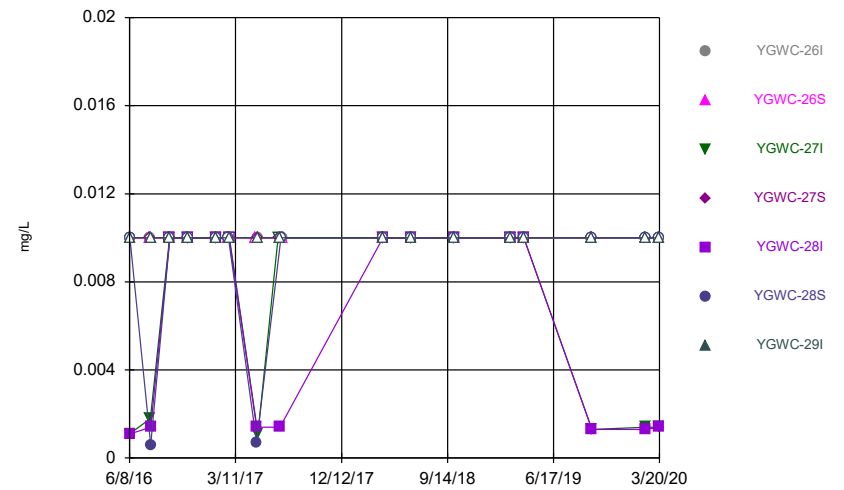
Constituent: Mercury Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



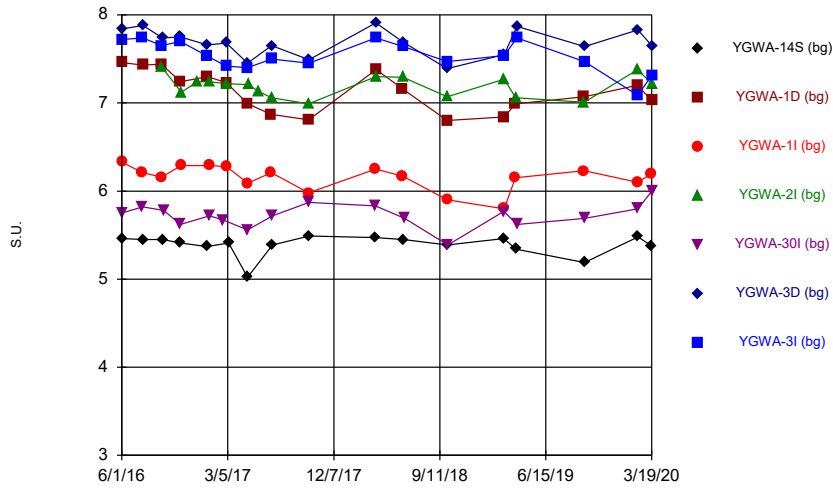
Constituent: Molybdenum Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



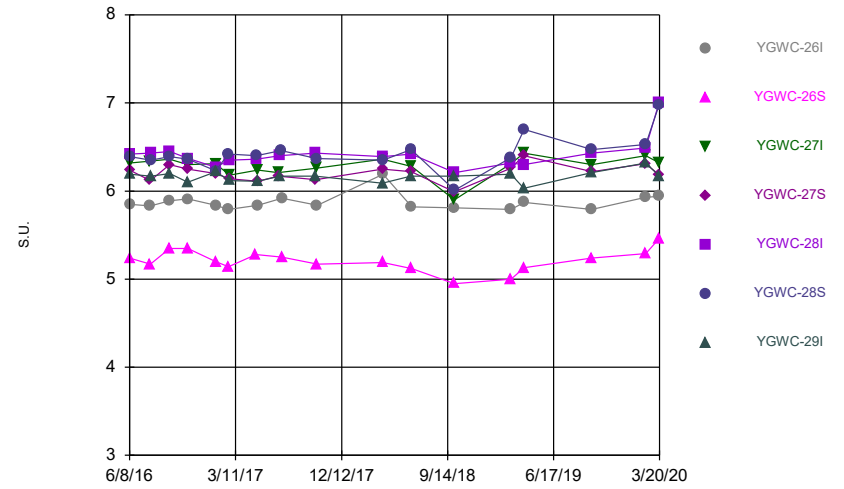
Constituent: Molybdenum Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



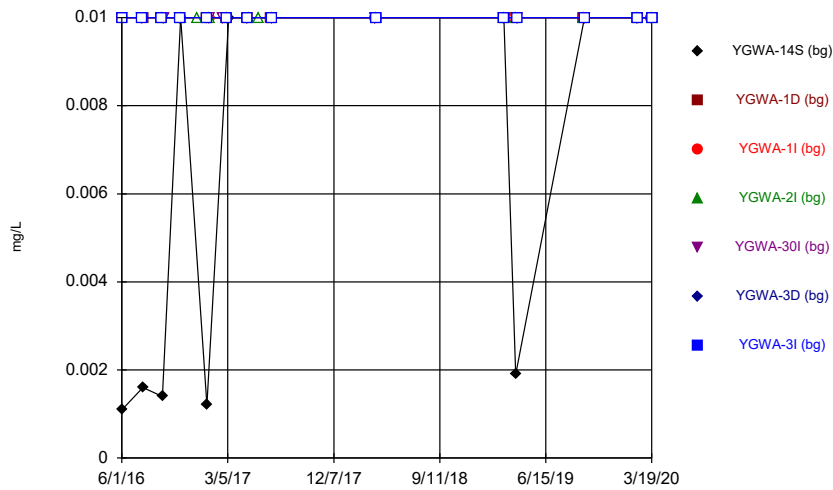
Constituent: pH Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



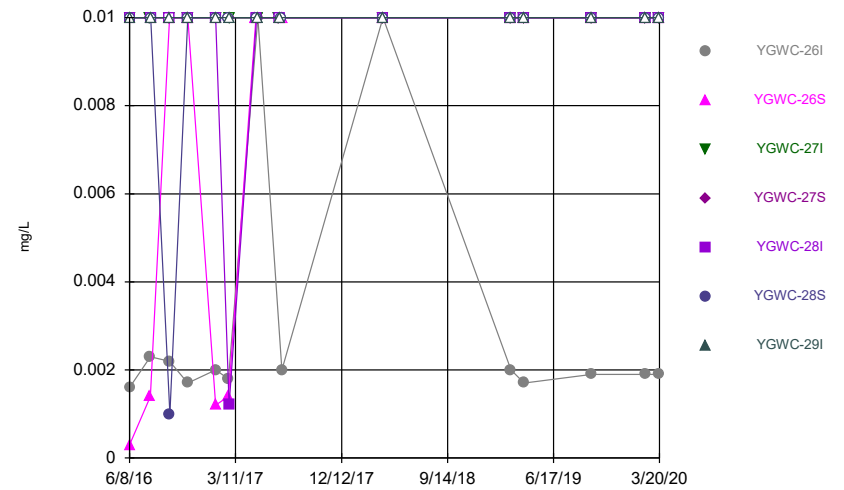
Constituent: pH Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



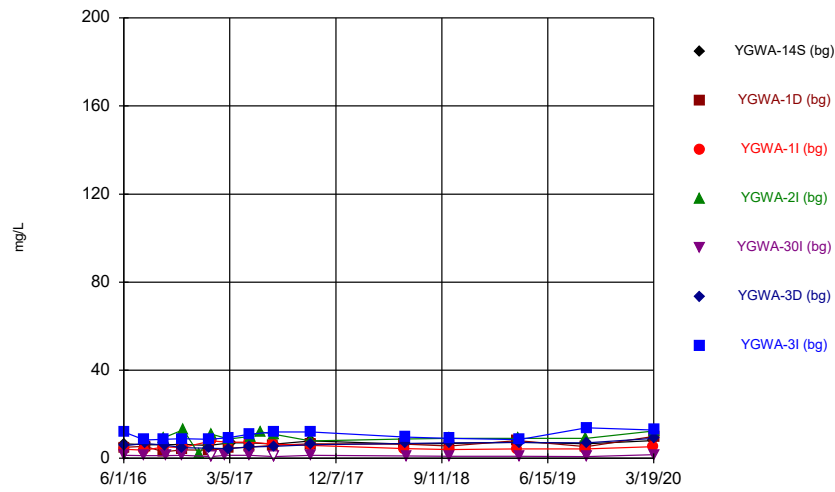
Constituent: Selenium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



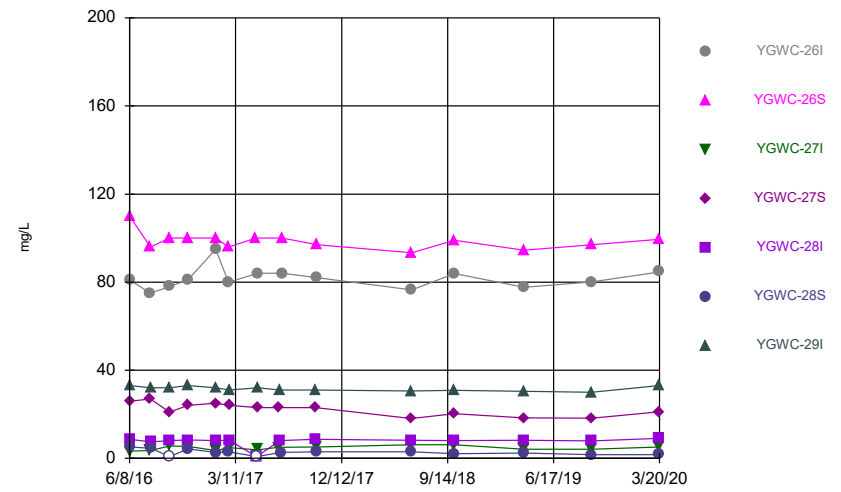
Constituent: Selenium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



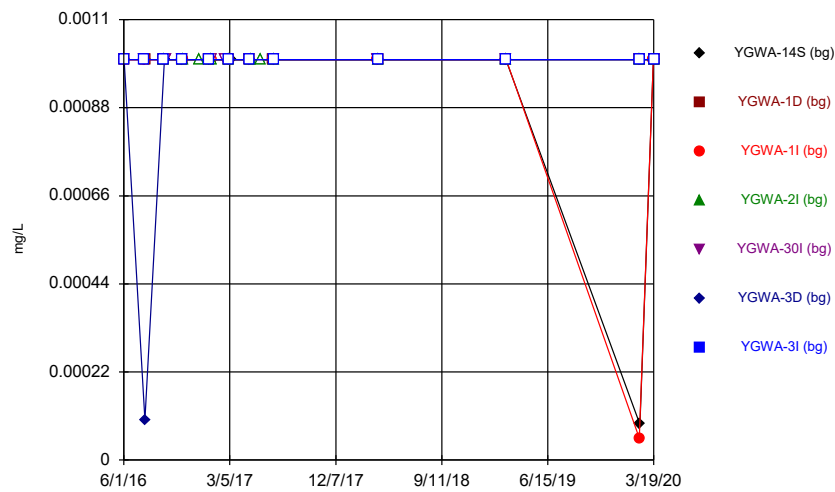
Constituent: Sulfate Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



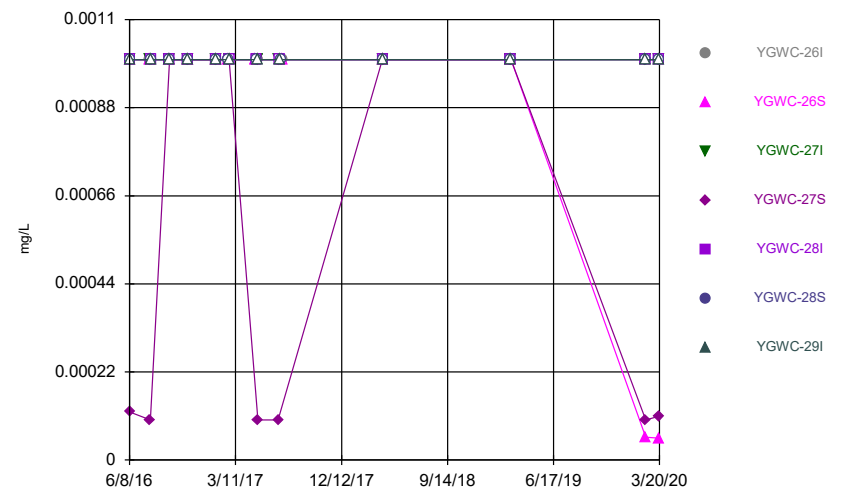
Constituent: Sulfate Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



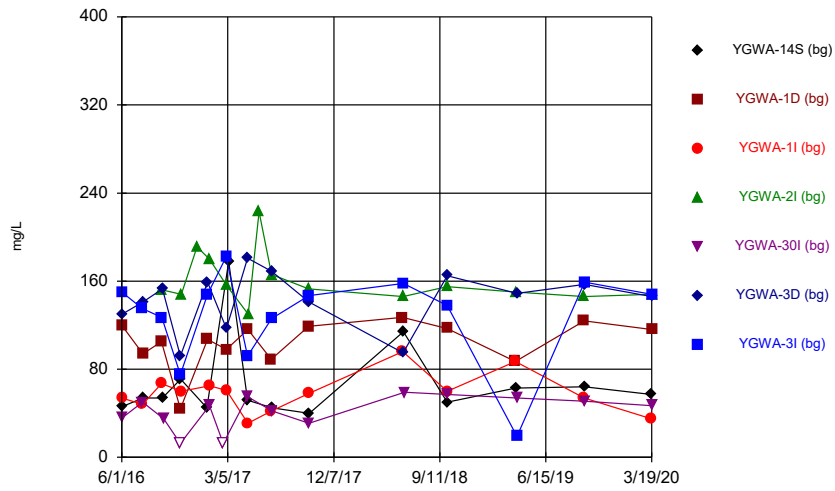
Constituent: Thallium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



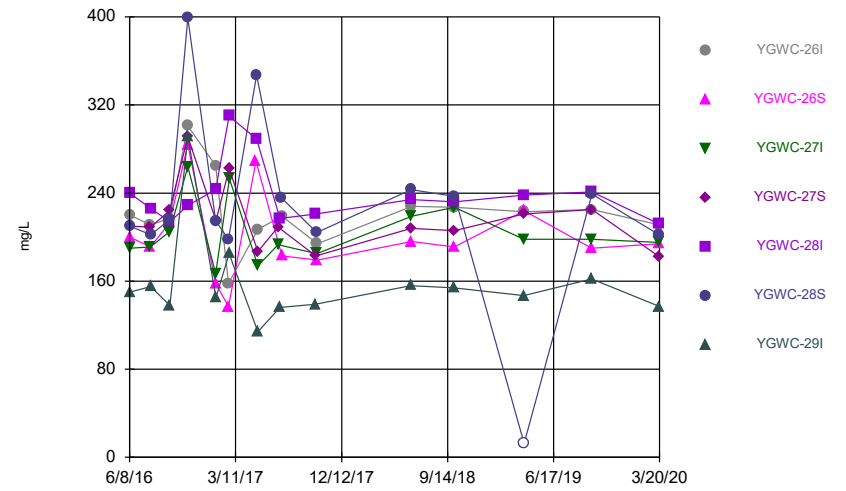
Constituent: Thallium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/12/2020 3:51 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) |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/12/2020 3:51 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 | 0.0002 (J) | <0.003 | | | | <0.003 | |
| 9/13/2016 | | <0.003 | <0.003 | | | | |
| 9/14/2016 | | | | <0.003 | | | <0.003 |
| 9/15/2016 | 0.0002 (J) | | | | | <0.003 | |
| 9/19/2016 | | | | | <0.003 | | |
| 11/1/2016 | | <0.003 | | | <0.003 | <0.003 | <0.003 |
| 11/2/2016 | 0.0002 (J) | | | | | | |
| 11/4/2016 | | | <0.003 | <0.003 | | | |
| 12/15/2016 | | | | <0.003 | | | |
| 1/10/2017 | 0.0002 (J) | | | | | | |
| 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 | | <0.003 | <0.003 | | | <0.003 | |
| 3/3/2017 | | | | <0.003 | | | |
| 3/8/2017 | 0.0002 (J) | | | | | | |
| 4/26/2017 | 0.0002 (J) | | | | <0.003 | <0.003 | <0.003 |
| 4/27/2017 | | <0.003 | <0.003 | | | | |
| 4/28/2017 | | | | <0.003 | | | |
| 5/26/2017 | | | | <0.003 | | | |
| 6/27/2017 | | <0.003 | <0.003 | | | | |
| 6/28/2017 | | | | <0.003 | | <0.003 | <0.003 |
| 6/30/2017 | 0.0002 (J) | | | | <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 | 0.00016 (J) | | | | 7.2E-05 (J) | | |
| 2/27/2019 | | <0.003 | <0.003 | <0.003 | | <0.003 | <0.003 |
| 3/28/2019 | | <0.003 | <0.003 | | | | |
| 3/29/2019 | 0.00017 (J) | | | <0.003 | | | |
| 4/1/2019 | | | | | <0.003 | <0.003 | <0.003 |
| 9/24/2019 | | <0.003 | <0.003 | <0.003 | | | |
| 9/25/2019 | 0.00018 (J) | | | | <0.003 | <0.003 | <0.003 |
| 2/10/2020 | | <0.003 | <0.003 | | | | |
| 2/11/2020 | | | | <0.003 | | | <0.003 |
| 2/12/2020 | 0.00019 (J) | | | | <0.003 | <0.003 | |
| 3/18/2020 | 0.00021 (J) | | <0.003 | | | | |
| 3/19/2020 | | <0.003 | | <0.003 | <0.003 | <0.003 | <0.003 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/12/2020 3:51 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 | 0.0002 (J) | <0.003 | <0.003 | | | |
| 8/2/2016 | | | | | <0.003 | <0.003 | <0.003 |
| 9/20/2016 | <0.003 | 0.0001 (J) | 9E-05 (J) | <0.003 | | | |
| 9/21/2016 | | | | | <0.003 | <0.003 | <0.003 |
| 11/7/2016 | <0.003 | 0.0001 (J) | 0.0001 (J) | <0.003 | | <0.003 | <0.003 |
| 11/8/2016 | | | | | <0.003 | | |
| 1/18/2017 | <0.003 | 0.0002 (J) | 0.0002 (J) | | <0.003 | <0.003 | |
| 1/19/2017 | | | | <0.003 | | | <0.003 |
| 2/21/2017 | <0.003 | 0.0002 (J) | | | | <0.003 | |
| 2/22/2017 | | | | <0.003 | <0.003 | | <0.003 |
| 2/23/2017 | | | 0.0002 (J) | | | | |
| 5/3/2017 | | 0.0002 (J) | | | | | |
| 5/5/2017 | | | | | <0.003 | <0.003 | |
| 5/8/2017 | <0.003 | | 0.0002 (J) | <0.003 | | | <0.003 |
| 6/30/2017 | | | 0.0002 (J) | <0.003 | | | |
| 7/5/2017 | | | | | <0.003 | | <0.003 |
| 7/7/2017 | | | | | | <0.003 | |
| 7/10/2017 | <0.003 | 0.0002 (J) | | | | | |
| 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 | 0.00018 (J) | 0.00022 (J) | <0.003 | <0.003 | <0.003 | <0.003 |
| 4/1/2019 | | | 0.00022 (J) | <0.003 | <0.003 | | <0.003 |
| 4/2/2019 | <0.003 | 0.00015 (J) | | | | <0.003 | |
| 9/25/2019 | <0.003 | 0.00011 (J) | | | | | <0.003 |
| 9/26/2019 | | | 0.0002 (J) | <0.003 | <0.003 | <0.003 | |
| 2/13/2020 | <0.003 | 0.00015 (J) | 0.00021 (J) | <0.003 | <0.003 | <0.003 | <0.003 |
| 3/19/2020 | | 0.00012 (J) | | | <0.003 | <0.003 | |
| 3/20/2020 | <0.003 | | 0.00023 (J) | <0.003 | | | <0.003 |

Time Series

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:51 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) |

Time Series

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/12/2020 3:51 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 | | <0.0025 | <0.0025 | | | | <0.0025 |
| 6/2/2016 | <0.0025 | | | | <0.0025 | <0.0025 | |
| 7/25/2016 | | | <0.0025 | | <0.0025 | | <0.0025 |
| 7/26/2016 | <0.0025 | <0.0025 | | | | <0.0025 | |
| 9/13/2016 | | <0.0025 | <0.0025 | | | | |
| 9/14/2016 | | | | <0.0025 | | | <0.0025 |
| 9/15/2016 | <0.0025 | | | | | <0.0025 | |
| 9/19/2016 | | | | | <0.0025 | | |
| 11/1/2016 | | <0.0025 | | | <0.0025 | <0.0025 | <0.0025 |
| 11/2/2016 | <0.0025 | | | | | | |
| 11/4/2016 | | | <0.0025 | <0.0025 | | | |
| 12/15/2016 | | | | <0.0025 | | | |
| 1/10/2017 | <0.0025 | | | | | | |
| 1/11/2017 | | 0.0002 (J) | | | | 0.0001 (J) | 8E-05 (J) |
| 1/16/2017 | | | <0.0025 | <0.0025 | <0.0025 | | |
| 2/21/2017 | | | | | <0.0025 | | |
| 3/1/2017 | | | | | | | <0.0025 |
| 3/2/2017 | | <0.0025 | <0.0025 | | | <0.0025 | |
| 3/3/2017 | | | | <0.0025 | | | |
| 3/8/2017 | 7E-05 (J) | | | | | | |
| 4/26/2017 | <0.0025 | | | | <0.0025 | <0.0025 | <0.0025 |
| 4/27/2017 | | <0.0025 | <0.0025 | | | | |
| 4/28/2017 | | | | <0.0025 | | | |
| 5/26/2017 | | | | <0.0025 | | | |
| 6/27/2017 | | <0.0025 | <0.0025 | | | | |
| 6/28/2017 | | | | <0.0025 | | <0.0025 | <0.0025 |
| 6/30/2017 | <0.0025 | | | | <0.0025 | | |
| 3/27/2018 | <0.0025 | | <0.0025 | | <0.0025 | | |
| 3/28/2018 | | | | <0.0025 | | <0.0025 | <0.0025 |
| 3/29/2018 | | <0.0025 | | | | | |
| 2/26/2019 | <0.0025 | | | | <0.0025 | | |
| 2/27/2019 | | <0.0025 | <0.0025 | <0.0025 | | <0.0025 | <0.0025 |
| 3/28/2019 | | <0.0025 | <0.0025 | | | | |
| 3/29/2019 | <0.0025 | | | <0.0025 | | | |
| 4/1/2019 | | | | | <0.0025 | <0.0025 | <0.0025 |
| 9/24/2019 | | <0.0025 | <0.0025 | <0.0025 | | | |
| 9/25/2019 | <0.0025 | | | | <0.0025 | <0.0025 | <0.0025 |
| 2/10/2020 | | <0.0025 | <0.0025 | | | | |
| 2/11/2020 | | | | <0.0025 | | | <0.0025 |
| 2/12/2020 | <0.0025 | | | | <0.0025 | <0.0025 | |
| 3/18/2020 | <0.0025 | | <0.0025 | | | | |
| 3/19/2020 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/12/2020 3:51 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 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | | |
| 6/9/2016 | | | | | 0.00055 (J) | <0.0025 | <0.0025 |
| 8/1/2016 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | | |
| 8/2/2016 | | | | | 0.0001 (J) | <0.0025 | 0.0001 (J) |
| 9/20/2016 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | | |
| 9/21/2016 | | | | | 0.0001 (J) | <0.0025 | 0.0002 (J) |
| 11/7/2016 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | <0.0025 | 0.0002 (J) |
| 11/8/2016 | | | | | 9E-05 (J) | | |
| 1/18/2017 | <0.0025 | <0.0025 | <0.0025 | | 9E-05 (J) | <0.0025 | |
| 1/19/2017 | | | | <0.0025 | | | 0.0001 (J) |
| 2/21/2017 | <0.0025 | <0.0025 | | | | <0.0025 | |
| 2/22/2017 | | | | <0.0025 | 0.0001 (J) | | 0.0001 (J) |
| 2/23/2017 | | | <0.0025 | | | | |
| 5/3/2017 | | <0.0025 | | | | | |
| 5/5/2017 | | | | | 9E-05 (J) | <0.0025 | |
| 5/8/2017 | <0.0025 | | <0.0025 | <0.0025 | | | 0.0002 (J) |
| 6/30/2017 | | | <0.0025 | <0.0025 | | | |
| 7/5/2017 | | | | | 0.0002 (J) | | 0.0002 (J) |
| 7/7/2017 | | | | | | <0.0025 | |
| 7/10/2017 | <0.0025 | <0.0025 | | | | | |
| 3/29/2018 | | | <0.0025 | <0.0025 | | | <0.0025 |
| 3/30/2018 | <0.0025 | <0.0025 | | | <0.0025 | <0.0025 | |
| 2/27/2019 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | 0.00014 (J) | <0.0025 | 0.00026 (J) |
| 4/1/2019 | | | <0.0025 | <0.0025 | 0.00043 (J) | | 0.00022 (J) |
| 4/2/2019 | <0.0025 | <0.0025 | | | | <0.0025 | |
| 9/25/2019 | <0.0025 | <0.0025 | | | | | 0.00024 (J) |
| 9/26/2019 | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | |
| 2/13/2020 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | 0.00013 (J) | <0.0025 | 0.00018 (J) |
| 3/19/2020 | | <0.0025 | | | 0.00016 (J) | <0.0025 | |
| 3/20/2020 | <0.0025 | | <0.0025 | <0.0025 | | | 0.00022 (J) |

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/12/2020 3:51 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 | <0.01 | | | | <0.01 |
| 6/2/2016 | <0.01 | | | | <0.01 | 0.0013 (J) | |
| 7/25/2016 | | | <0.01 (*) | | <0.01 | | <0.01 (*) |
| 7/26/2016 | <0.01 | <0.01 (*) | | | | <0.01 (*) | |
| 9/13/2016 | | <0.01 | <0.01 | | | | |
| 9/14/2016 | | | | <0.01 | | | <0.01 |
| 9/15/2016 | <0.01 | | | | | <0.01 | |
| 9/19/2016 | | | | | <0.01 | | |
| 11/1/2016 | | <0.01 | | | <0.01 | <0.01 | <0.01 |
| 11/2/2016 | <0.01 | | | | | | |
| 11/4/2016 | | | <0.01 | <0.01 | | | |
| 12/15/2016 | | | | <0.01 | | | |
| 1/10/2017 | <0.01 | | | | | | |
| 1/11/2017 | | <0.01 | | | | <0.01 | <0.01 |
| 1/16/2017 | | | <0.01 | <0.01 | <0.01 | | |
| 2/21/2017 | | | | | <0.01 | | |
| 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 | <0.01 (*) | | | | | | |
| 4/26/2017 | <0.01 | | | | 0.0016 (J) | <0.01 | <0.01 |
| 4/27/2017 | | <0.01 | <0.01 | | | | |
| 4/28/2017 | | | | 0.0004 (J) | | | |
| 5/26/2017 | | | | <0.01 | | | |
| 6/27/2017 | | <0.01 | <0.01 | | | | |
| 6/28/2017 | | | | <0.01 | | <0.01 | <0.01 |
| 6/30/2017 | <0.01 | | | | <0.01 | | |
| 3/27/2018 | <0.01 | | <0.01 | | <0.01 | | |
| 3/28/2018 | | | | <0.01 | | <0.01 | <0.01 |
| 3/29/2018 | | <0.01 | | | | | |
| 2/26/2019 | <0.01 | | | | <0.01 | | |
| 2/27/2019 | | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 |
| 3/28/2019 | | <0.01 | 0.0021 (J) | | | | |
| 3/29/2019 | <0.01 | | | <0.01 | | | |
| 4/1/2019 | | | | | <0.01 | <0.01 | <0.01 |
| 9/24/2019 | | 0.00072 (J) | 0.0028 (J) | <0.01 | | | |
| 9/25/2019 | <0.01 | | | | <0.01 | 0.0014 (J) | 0.0019 (J) |
| 2/10/2020 | | 0.00042 (J) | <0.01 | | | | |
| 2/11/2020 | | | | <0.01 | | | <0.01 |
| 2/12/2020 | <0.01 | | | | <0.01 | <0.01 | |
| 3/18/2020 | <0.01 | | 0.00044 (J) | | | | |
| 3/19/2020 | | 0.00084 (J) | | 0.00048 (J) | <0.01 | <0.01 | <0.01 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/12/2020 3:51 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 | <0.01 | <0.01 | | | |
| 6/9/2016 | | | | | <0.01 | <0.01 | <0.01 |
| 8/1/2016 | 0.0008 (J) | 0.0026 (J) | <0.01 | <0.01 | | | |
| 8/2/2016 | | | | | 0.0005 (J) | 0.0005 (J) | 0.0005 (J) |
| 9/20/2016 | <0.01 | 0.001 (J) | <0.01 | <0.01 | | | |
| 9/21/2016 | | | | | <0.01 | <0.01 | <0.01 |
| 11/7/2016 | <0.01 | 0.0013 (J) | <0.01 | <0.01 | | <0.01 | <0.01 |
| 11/8/2016 | | | | | <0.01 | | |
| 1/18/2017 | <0.01 | 0.002 (J) | <0.01 | | <0.01 | <0.01 | |
| 1/19/2017 | | | | <0.01 | | | <0.01 |
| 2/21/2017 | <0.01 | 0.0019 (J) | | | | <0.01 | |
| 2/22/2017 | | | | <0.01 | <0.01 | | <0.01 |
| 2/23/2017 | | | <0.01 | | | | |
| 5/3/2017 | | 0.0037 (J) | | | | | |
| 5/5/2017 | | | | | <0.01 | <0.01 | |
| 5/8/2017 | 0.0006 (J) | | <0.01 | <0.01 | | | <0.01 |
| 6/30/2017 | | | <0.01 | <0.01 | | | |
| 7/5/2017 | | | | | <0.01 | | <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 | |
| 2/27/2019 | 0.0049 (J) | 0.0055 (J) | <0.01 | 0.015 | <0.01 | <0.01 | <0.01 |
| 4/1/2019 | | | <0.01 | <0.01 | <0.01 | | <0.01 |
| 4/2/2019 | <0.01 | 0.003 (J) | | | | <0.01 | |
| 9/25/2019 | 0.00048 (J) | 0.0012 (J) | | | | | <0.01 |
| 9/26/2019 | | | <0.01 | <0.01 | 0.00044 (J) | <0.01 | |
| 2/13/2020 | 0.00044 (J) | 0.0012 (J) | <0.01 | <0.01 | 0.00047 (J) | <0.01 | <0.01 |
| 3/19/2020 | | 0.0018 (J) | | | <0.01 | 0.00049 (J) | |
| 3/20/2020 | 0.0009 (J) | | <0.01 | 0.0005 (J) | | | <0.01 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:51 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) | <0.3 | | | | 0.15 (J) |
| 6/2/2016 | <0.3 | | | | <0.3 | 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) | <0.3 | | | | |
| 9/14/2016 | | | | 0.08 (J) | | | 0.18 (J) |
| 9/15/2016 | <0.3 | | | | | 0.54 | |
| 9/19/2016 | | | | | <0.3 | | |
| 11/1/2016 | | <0.3 (*) | | | <0.3 (*) | 0.68 | <0.3 (*) |
| 11/2/2016 | <0.3 (*) | | | | | | |
| 11/4/2016 | | | <0.3 (*) | <0.3 (*) | | | |
| 12/15/2016 | | | | 0.06 (J) | | | |
| 1/10/2017 | <0.3 | | | | | | |
| 1/11/2017 | | 0.05 (J) | | | | 0.49 | 0.09 (J) |
| 1/16/2017 | | | <0.3 (*) | 0.1 (J) | <0.3 | | |
| 2/21/2017 | | | | | <0.3 (*) | | |
| 3/1/2017 | | | | | | | <0.3 (*) |
| 3/2/2017 | | <0.3 (*) | <0.3 (*) | | | 0.48 | |
| 3/3/2017 | | | | <0.3 (*) | | | |
| 3/8/2017 | <0.3 (*) | | | | | | |
| 4/26/2017 | <0.3 | | | | <0.3 | 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 | | <0.3 (*) | <0.3 (*) | | | | |
| 6/28/2017 | | | | 0.11 (J) | | 0.47 | 0.12 (J) |
| 6/30/2017 | <0.3 | | | | <0.3 (*) | | |
| 10/3/2017 | | <0.3 (*) | <0.3 | <0.3 (*) | | | |
| 10/4/2017 | | | | | <0.3 | <0.3 (*) | <0.3 (*) |
| 10/5/2017 | <0.3 | | | | | | |
| 3/27/2018 | <0.3 | | <0.3 | | <0.3 | | |
| 3/28/2018 | | | | 0.31 | | 0.56 | <0.3 |
| 3/29/2018 | | <0.3 | | | | | |
| 6/5/2018 | | 0.055 (J) | | | | | |
| 6/6/2018 | | | <0.3 | | | | |
| 6/7/2018 | | | | 0.11 (J) | | 0.48 | |
| 6/8/2018 | <0.3 | | | | | | 0.2 (J) |
| 6/11/2018 | | | | | <0.3 | | |
| 10/1/2018 | <0.3 | <0.3 | <0.3 | <0.3 | | 0.44 | <0.3 |
| 10/2/2018 | | | | | <0.3 | | |
| 2/26/2019 | <0.3 | | | | <0.3 | | |
| 2/27/2019 | | 0.052 (J) | <0.3 | 0.12 (J) | | 0.53 | 0.13 (J) |
| 3/28/2019 | | 0.036 (J) | <0.3 | | | | |
| 3/29/2019 | <0.3 | | | 0.13 (J) | | | |
| 4/1/2019 | | | | | <0.3 | 0.45 | 0.1 (J) |
| 9/24/2019 | | 0.063 (J) | <0.3 | 0.081 (J) | | | |
| 9/25/2019 | <0.3 | | | | <0.3 | 0.46 | 0.1 (J) |
| 2/10/2020 | | 0.061 (J) | <0.3 | | | | |
| 2/11/2020 | | | | 0.075 (J) | | | 0.094 (J) |
| 2/12/2020 | <0.3 | | | | <0.3 | 0.4 | |
| 3/18/2020 | <0.3 | | <0.3 | | | | |
| 3/19/2020 | | 0.064 (J) | | 0.093 (J) | <0.3 | 0.51 | 0.11 (J) |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:51 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) | <0.3 | 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) | <0.3 | 0.32 | | | |
| 9/21/2016 | | | | | 0.08 (J) | 0.25 (J) | 0.09 (J) |
| 11/7/2016 | <0.3 (*) | 0.44 | <0.3 (*) | <0.3 (*) | | 0.27 (J) | <0.3 (*) |
| 11/8/2016 | | | | | 0.24 (J) | | |
| 1/18/2017 | 0.11 (J) | <0.3 (*) | <0.3 (*) | | 0.12 (J) | 0.34 | |
| 1/19/2017 | | | | 0.25 (J) | | | <0.3 (*) |
| 2/21/2017 | <0.3 (*) | <0.3 (*) | | | | 0.27 (J) | |
| 2/22/2017 | | | | 0.21 (J) | <0.3 (*) | | <0.3 (*) |
| 2/23/2017 | | | <0.3 (*) | | | | |
| 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 | | | <0.3 (*) | 0.2 (J) | | | |
| 7/5/2017 | | | | | 0.11 (J) | | 0.08 (J) |
| 7/7/2017 | | | | | | 0.18 (J) | |
| 7/10/2017 | <0.3 (*) | <0.3 (*) | | | | | |
| 10/5/2017 | | | | | <0.3 (*) | | <0.3 (*) |
| 10/6/2017 | | | | <0.3 (*) | | | |
| 10/9/2017 | | | <0.3 (*) | | | <0.3 (*) | |
| 10/10/2017 | <0.3 | <0.3 | | | | | |
| 3/29/2018 | | | <0.3 | 0.49 | | | <0.3 |
| 3/30/2018 | <0.3 | 0.35 | | | <0.3 | <0.3 | |
| 6/11/2018 | | | | | | | <0.3 |
| 6/12/2018 | | | | 0.037 (J) | <0.3 | 0.13 (J) | |
| 6/13/2018 | 0.088 (J) | 0.044 (J) | <0.3 | | | | |
| 10/2/2018 | <0.3 | <0.3 | <0.3 | <0.3 | | | <0.3 |
| 10/3/2018 | | | | | <0.3 | 0.31 | |
| 2/27/2019 | <0.3 | <0.3 | <0.3 | 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) | <0.3 | | | | 0.14 (J) | |
| 9/25/2019 | 0.064 (J) | <0.3 | | | | | 0.054 (J) |
| 9/26/2019 | | | 0.14 (J) | 0.22 (J) | 0.29 (J) | 0.28 (J) | |
| 2/13/2020 | <0.3 | <0.3 | <0.3 | 0.11 (J) | 0.14 (J) | 0.18 (J) | 0.053 (J) |
| 3/19/2020 | | <0.3 | | | 0.07 (J) | 0.16 (J) | |
| 3/20/2020 | 0.06 (J) | | <0.3 | 0.097 (J) | | | 0.057 (J) |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/12/2020 3:51 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) | <0.005 | | | | <0.005 |
| 6/2/2016 | <0.005 | | | | <0.005 | 0.00056 (J) | |
| 7/25/2016 | | | <0.005 | | <0.005 | | <0.005 |
| 7/26/2016 | <0.005 | <0.005 | | | | 0.0001 (J) | |
| 9/13/2016 | | 0.0001 (J) | <0.005 | | | | |
| 9/14/2016 | | | | <0.005 | | | <0.005 |
| 9/15/2016 | <0.005 | | | | | 0.0002 (J) | |
| 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 | | | | | | | <0.005 |
| 3/2/2017 | | 0.0001 (J) | <0.005 | | | 0.0002 (J) | |
| 3/3/2017 | | | | <0.005 | | | |
| 3/8/2017 | 0.0001 (J) | | | | | | |
| 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 |
| 2/10/2020 | | 4.9E-05 (J) | <0.005 | | | | |
| 2/11/2020 | | | | <0.005 | | | <0.005 |
| 2/12/2020 | <0.005 | | | | <0.005 | <0.005 | |
| 3/18/2020 | <0.005 | | <0.005 | | | | |
| 3/19/2020 | | 0.00012 (J) | | <0.005 | <0.005 | 0.00017 (J) | <0.005 |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/12/2020 3:51 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 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 8/2/2016 | | | | | <0.005 | <0.005 | <0.005 |
| 9/20/2016 | <0.005 | <0.005 | <0.005 | 0.0002 (J) | | | |
| 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 | | <0.005 | <0.005 | | | <0.005 |
| 6/30/2017 | | | <0.005 | <0.005 | | | |
| 7/5/2017 | | | | | <0.005 | | <0.005 |
| 7/7/2017 | | | | | | 7E-05 (J) | |
| 7/10/2017 | <0.005 | 8E-05 (J) | | | | | |
| 3/29/2018 | | | <0.005 | <0.005 | | | <0.005 |
| 3/30/2018 | <0.005 | <0.005 | | | <0.005 | <0.005 | |
| 2/27/2019 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/13/2020 | <0.005 | <0.005 | <0.005 | 6.2E-05 (J) | <0.005 | 5.4E-05 (J) | <0.005 |
| 3/19/2020 | | 0.0001 (J) | | | <0.005 | 7.5E-05 (J) | |
| 3/20/2020 | 5.9E-05 (J) | | <0.005 | 8.5E-05 (J) | | | <0.005 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/12/2020 3:51 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) |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/12/2020 3:51 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) |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/12/2020 3:51 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 | | <0.0005 | | | | <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 | <0.0005 (*) | | | | | | |
| 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 | 6.1E-05 (J) | | | | 6.8E-05 (J) | | |
| 2/27/2019 | | 5.1E-05 (J) | 5.4E-05 (J) | <0.0005 | | 6.2E-05 (J) | 6.1E-05 (J) |
| 3/28/2019 | | 4E-05 (J) | <0.0005 | | | | |
| 3/29/2019 | <0.0005 | | | <0.0005 | | | |
| 4/1/2019 | | | | | 8.2E-05 (J) | 9.6E-05 (J) | 8.4E-05 (J) |
| 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 | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/12/2020 3:51 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) |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: pH (S.U.) Analysis Run 5/12/2020 3:51 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 5/12/2020 3:51 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 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/12/2020 3:51 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 | | <0.01 | <0.01 | | | | <0.01 |
| 6/2/2016 | 0.0011 (J) | | | | <0.01 | <0.01 | |
| 7/25/2016 | | | <0.01 | | <0.01 | | <0.01 |
| 7/26/2016 | 0.0016 (J) | <0.01 | | | | <0.01 | |
| 9/13/2016 | | <0.01 | <0.01 | | | | |
| 9/14/2016 | | | | <0.01 | | | <0.01 |
| 9/15/2016 | 0.0014 (J) | | | | | <0.01 | |
| 9/19/2016 | | | | | <0.01 | | |
| 11/1/2016 | | <0.01 | | | <0.01 | <0.01 | <0.01 |
| 11/2/2016 | <0.01 | | | | | | |
| 11/4/2016 | | | <0.01 | <0.01 | | | |
| 12/15/2016 | | | | <0.01 | | | |
| 1/10/2017 | 0.0012 (J) | | | | | | |
| 1/11/2017 | | <0.01 | | | | <0.01 | <0.01 |
| 1/16/2017 | | | <0.01 | <0.01 | <0.01 | | |
| 2/21/2017 | | | | | <0.01 | | |
| 3/1/2017 | | | | | | | <0.01 |
| 3/2/2017 | | <0.01 | <0.01 | | | <0.01 | |
| 3/3/2017 | | | | <0.01 | | | |
| 3/8/2017 | <0.01 | | | | | | |
| 4/26/2017 | <0.01 | | | | <0.01 | <0.01 | <0.01 |
| 4/27/2017 | | <0.01 | <0.01 | | | | |
| 4/28/2017 | | | | <0.01 | | | |
| 5/26/2017 | | | | <0.01 | | | |
| 6/27/2017 | | <0.01 | <0.01 | | | | |
| 6/28/2017 | | | | <0.01 | | <0.01 | <0.01 |
| 6/30/2017 | <0.01 | | | | <0.01 | | |
| 3/27/2018 | <0.01 | | <0.01 | | <0.01 | | |
| 3/28/2018 | | | | <0.01 | | <0.01 | <0.01 |
| 3/29/2018 | | <0.01 | | | | | |
| 2/26/2019 | <0.01 | | | | <0.01 | | |
| 2/27/2019 | | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 |
| 3/28/2019 | | <0.01 | <0.01 | | | | |
| 3/29/2019 | 0.0019 (J) | | | <0.01 | | | |
| 4/1/2019 | | | | | <0.01 | <0.01 | <0.01 |
| 9/24/2019 | | <0.01 | <0.01 | <0.01 | | | |
| 9/25/2019 | <0.01 | | | | <0.01 | <0.01 | <0.01 |
| 2/10/2020 | | <0.01 | <0.01 | | | | |
| 2/11/2020 | | | | <0.01 | | | <0.01 |
| 2/12/2020 | <0.01 | | | | <0.01 | <0.01 | |
| 3/18/2020 | <0.01 | | <0.01 | | | | |
| 3/19/2020 | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/12/2020 3:51 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) | <0.01 | <0.01 | | | |
| 6/9/2016 | | | | | <0.01 | <0.01 | <0.01 |
| 8/1/2016 | 0.0023 (J) | 0.0014 (J) | <0.01 | <0.01 | | | |
| 8/2/2016 | | | | | <0.01 | <0.01 | <0.01 |
| 9/20/2016 | 0.0022 (J) | <0.01 | <0.01 | <0.01 | | | |
| 9/21/2016 | | | | | <0.01 | 0.001 (J) | <0.01 |
| 11/7/2016 | 0.0017 (J) | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 |
| 11/8/2016 | | | | | <0.01 | | |
| 1/18/2017 | 0.002 (J) | 0.0012 (J) | <0.01 | | <0.01 | <0.01 | |
| 1/19/2017 | | | | <0.01 | | | <0.01 |
| 2/21/2017 | 0.0018 (J) | 0.0014 (J) | | | | <0.01 | |
| 2/22/2017 | | | | <0.01 | 0.0012 (J) | | <0.01 |
| 2/23/2017 | | | <0.01 | | | | |
| 5/3/2017 | | <0.01 | | | | | |
| 5/5/2017 | | | | | <0.01 | <0.01 | |
| 5/8/2017 | <0.01 | | <0.01 | <0.01 | | | <0.01 |
| 6/30/2017 | | | <0.01 | <0.01 | | | |
| 7/5/2017 | | | | | <0.01 | | <0.01 |
| 7/7/2017 | | | | | | <0.01 | |
| 7/10/2017 | 0.002 (J) | <0.01 | | | | | |
| 3/29/2018 | | | <0.01 | <0.01 | | | <0.01 |
| 3/30/2018 | <0.01 | <0.01 | | | <0.01 | <0.01 | |
| 2/27/2019 | 0.002 (J) | <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 | 0.0017 (J) | <0.01 | | | | <0.01 | |
| 9/25/2019 | 0.0019 (J) | <0.01 | | | | | <0.01 |
| 9/26/2019 | | | <0.01 | <0.01 | <0.01 | <0.01 | |
| 2/13/2020 | 0.0019 (J) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 3/19/2020 | | <0.01 | | | <0.01 | <0.01 | |
| 3/20/2020 | 0.0019 (J) | | <0.01 | <0.01 | | | <0.01 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:51 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 | <1.5 (*) | | |
| 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 | | | | <1.5 (*) | | |
| 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 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:51 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 | <1.5 (*) | 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 | | | | | <1.5 (*) | <1.5 (*) | |
| 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 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:51 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 |

Time Series

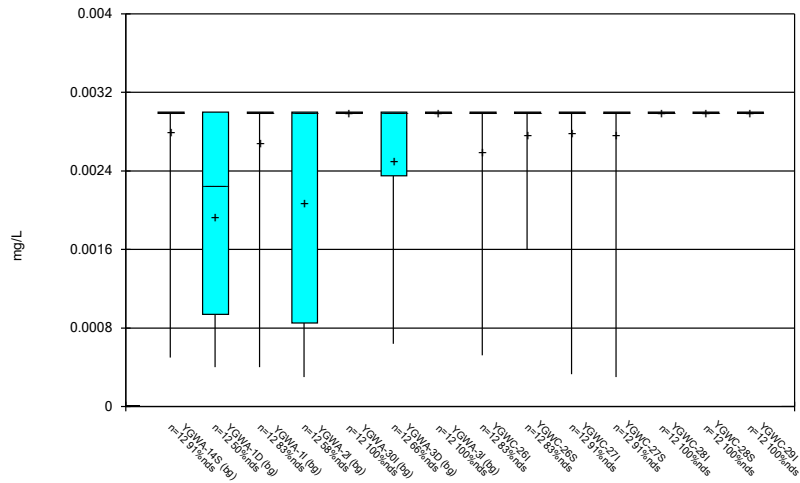
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:51 PM

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 |

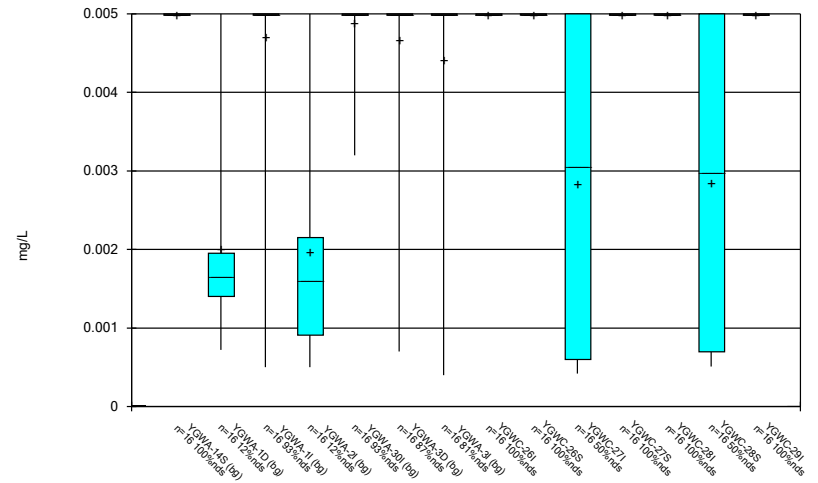
FIGURE B.

Box & Whiskers Plot



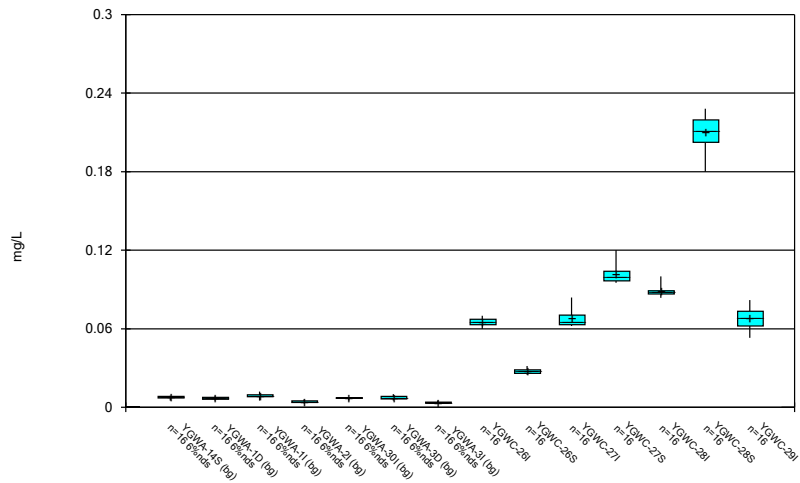
Constituent: Antimony Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



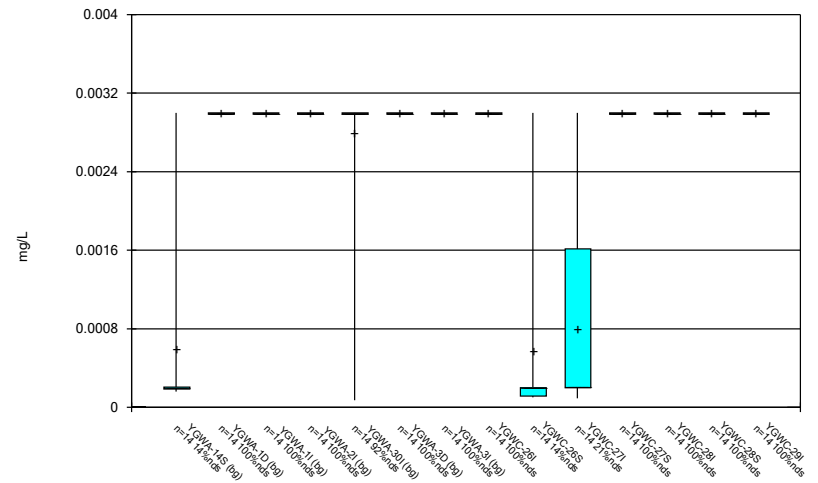
Constituent: Arsenic Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



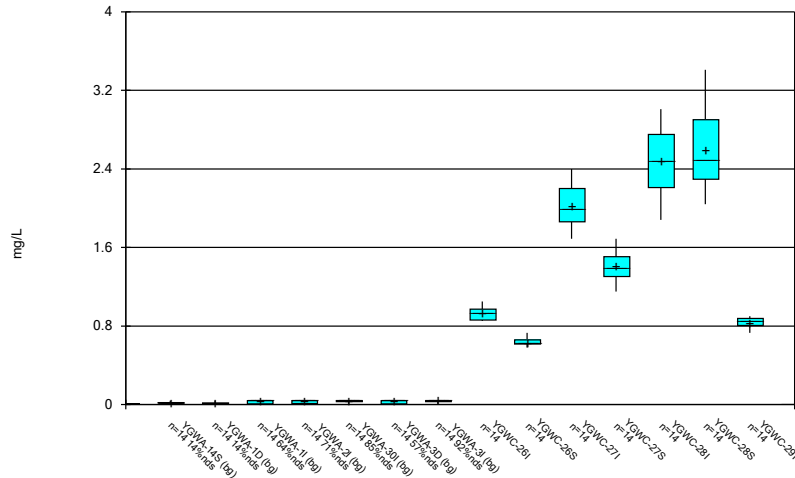
Constituent: Barium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



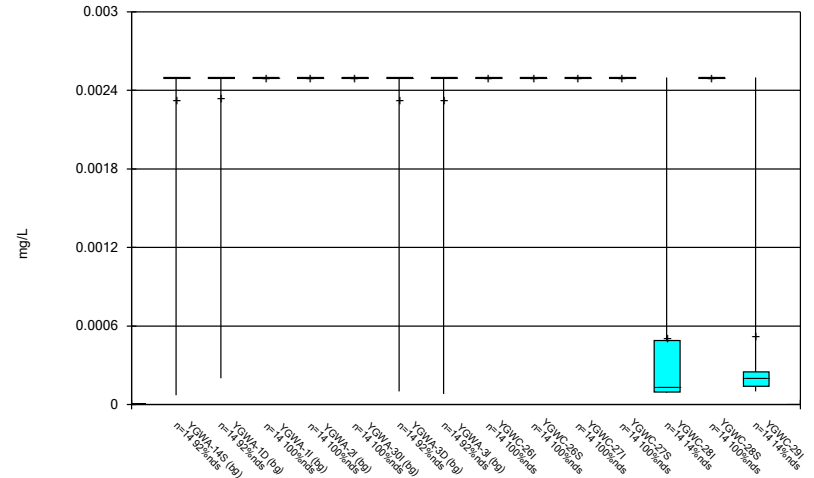
Constituent: Beryllium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



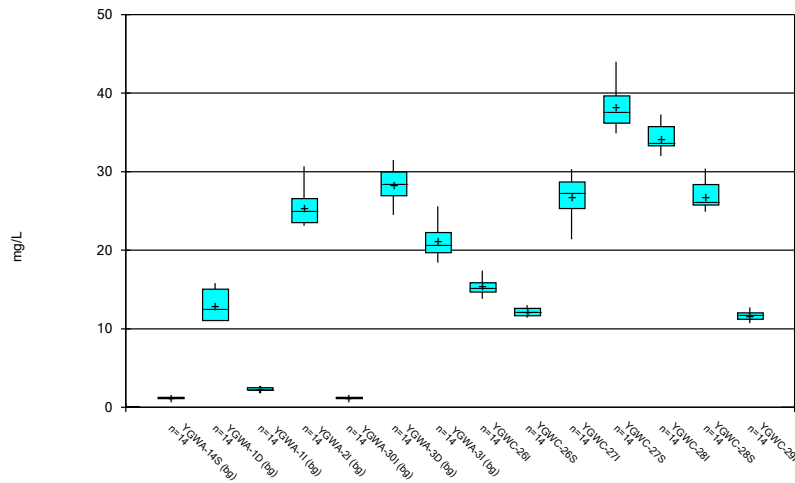
Constituent: Boron Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



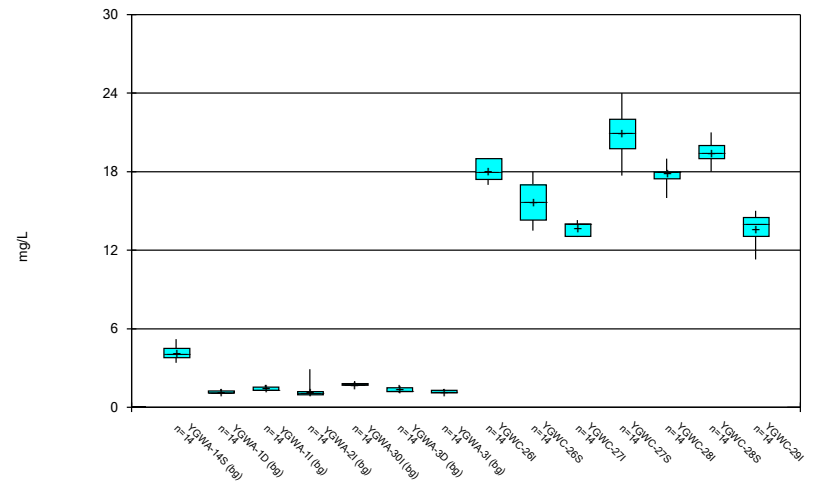
Constituent: Cadmium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



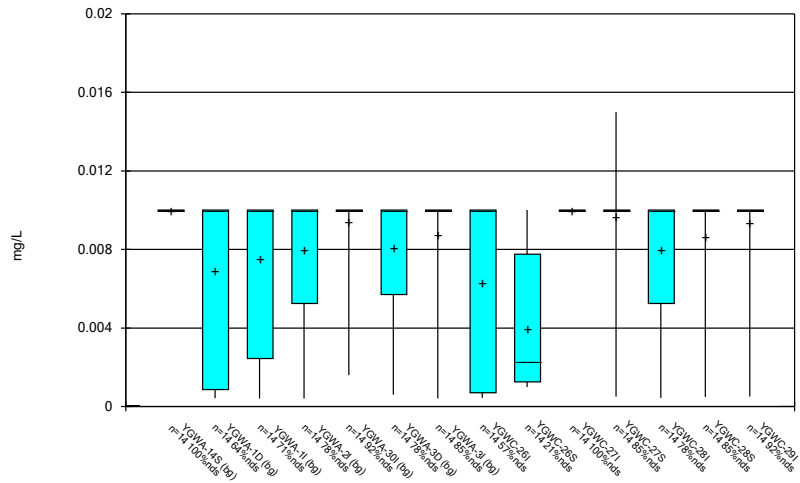
Constituent: Calcium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



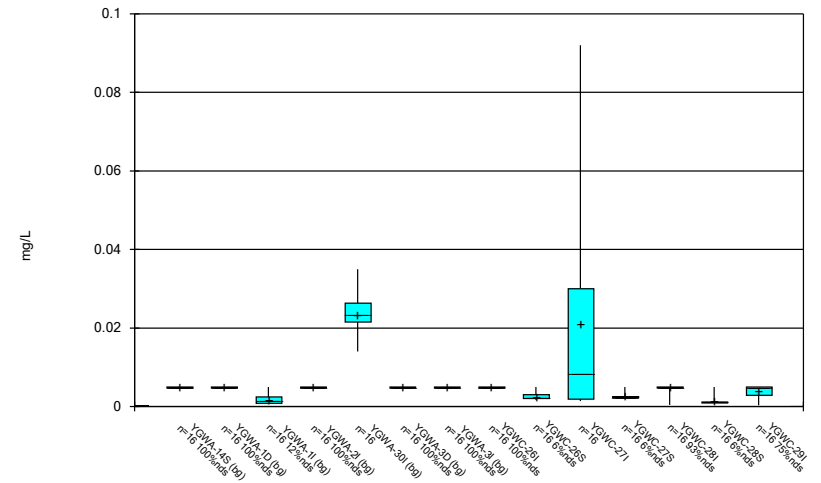
Constituent: Chloride Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



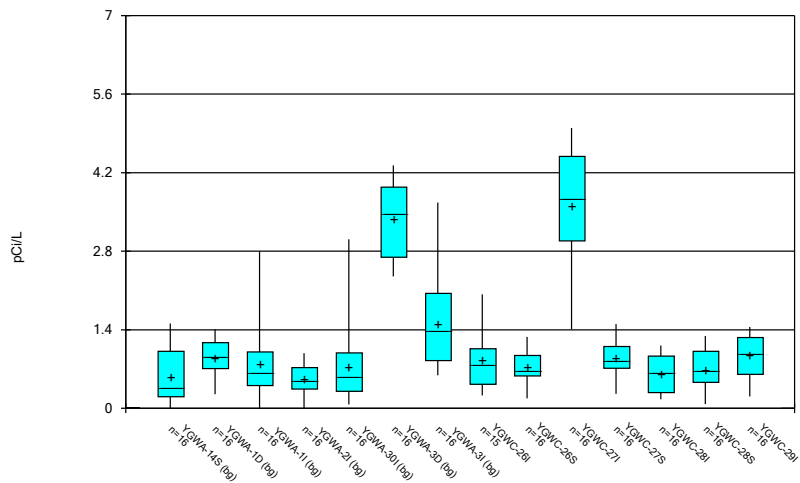
Constituent: Chromium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



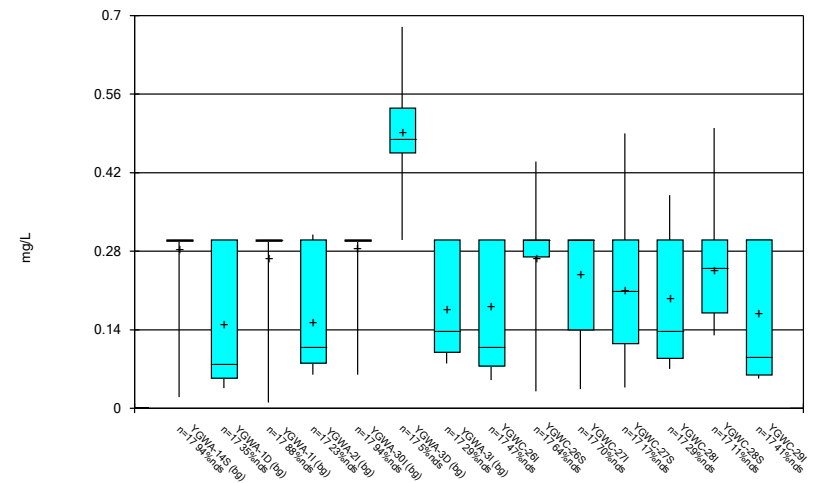
Constituent: Cobalt Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



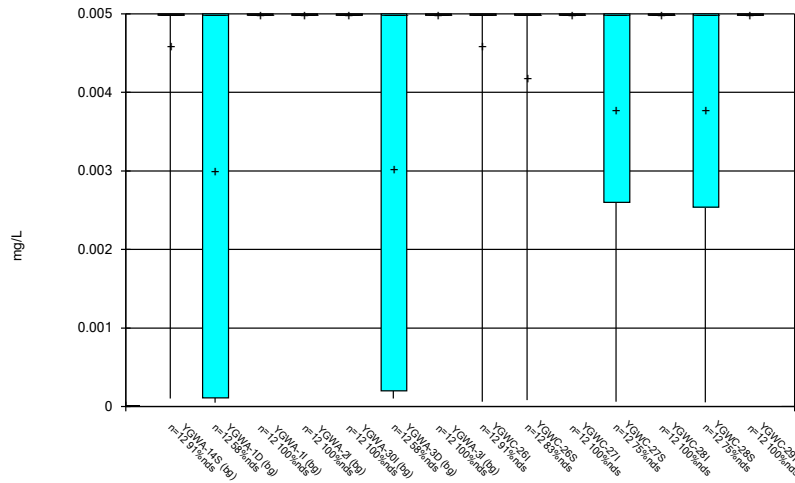
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



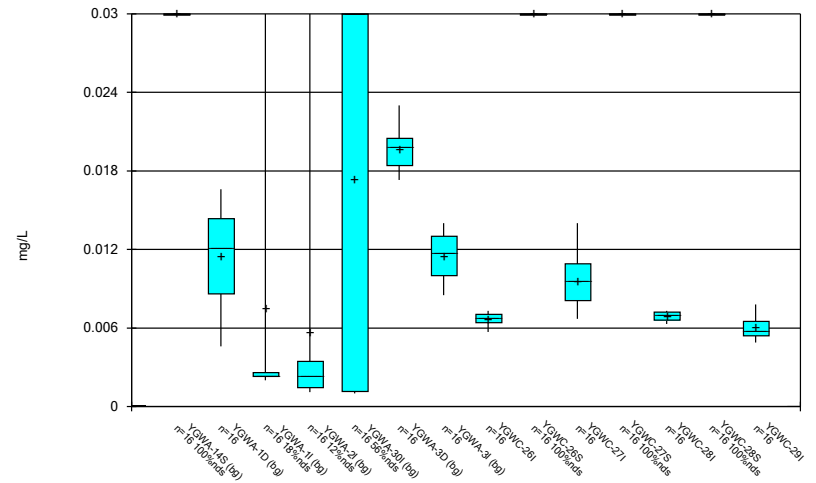
Constituent: Fluoride Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



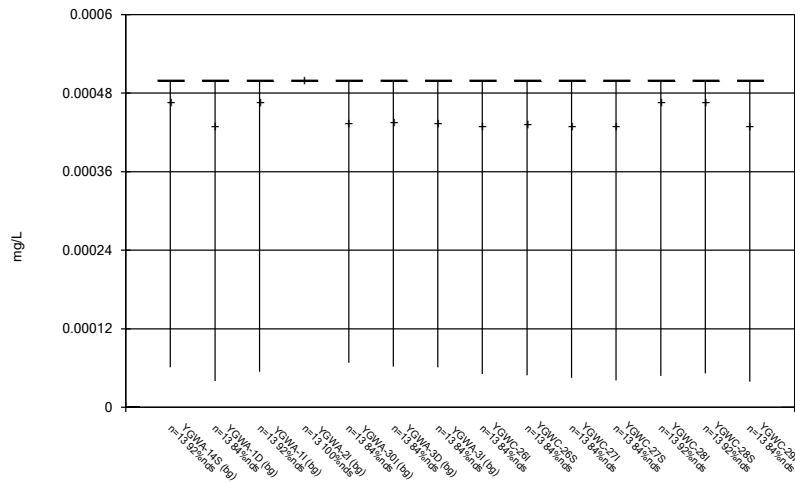
Constituent: Lead Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



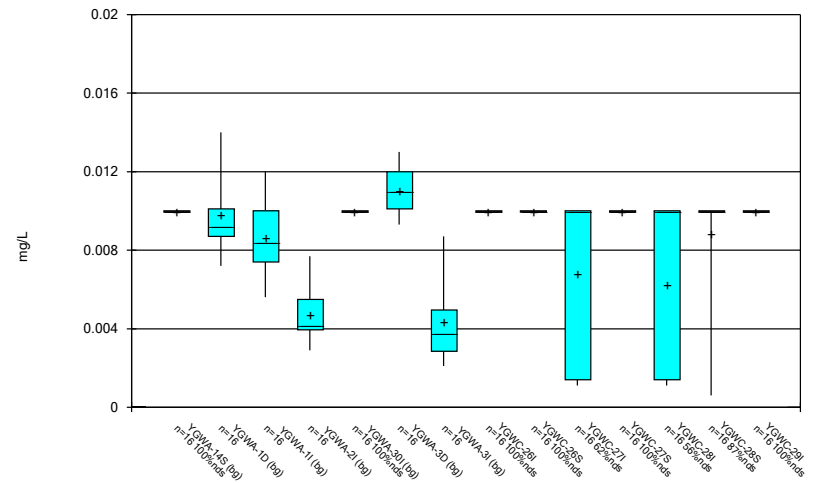
Constituent: Lithium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



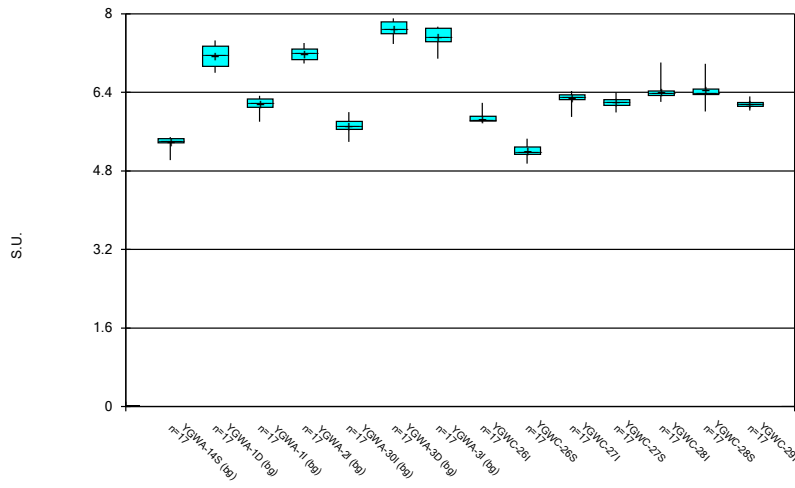
Constituent: Mercury Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



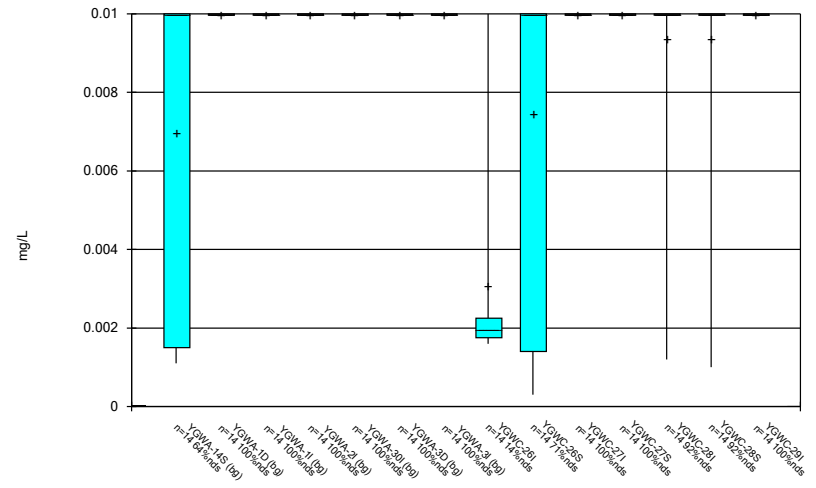
Constituent: Molybdenum Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



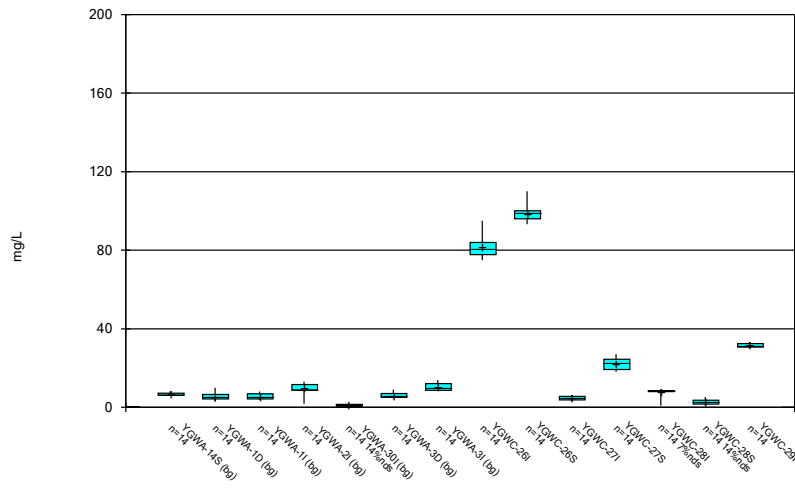
Constituent: pH Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



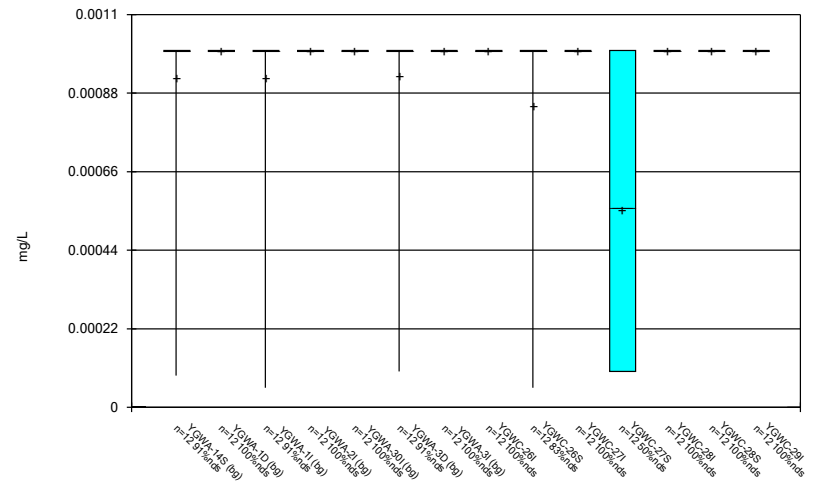
Constituent: Selenium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



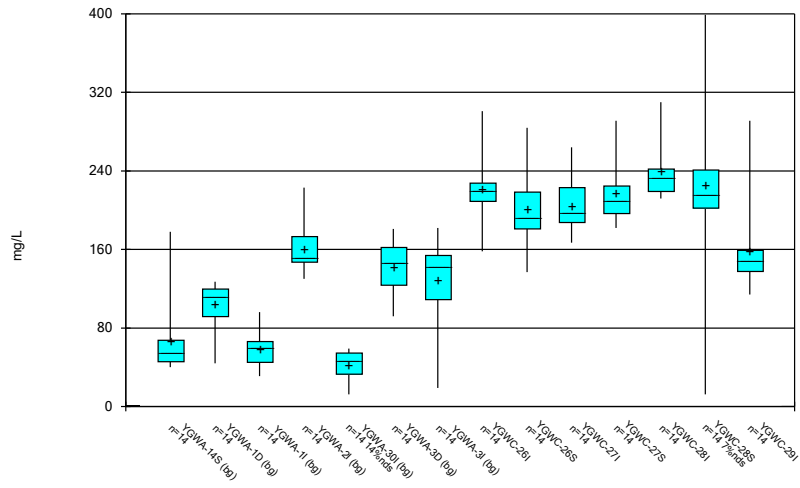
Constituent: Sulfate Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:52 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 5/12/2020, 3:53 PM

YGWC-261 Combined Radium 226 + 228 (pCi/L)

6/8/2016

6.68 (o)

Appendix III Tukey's Outlier Analysis - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/11/2020, 4:19 PM

| <u>Constituent</u> | <u>Well</u> | <u>Outlier</u> | <u>Value(s)</u> | <u>Method</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>Distribution</u> | <u>Normality Test</u> |
|--------------------|------------------------|----------------|---|---------------|----------|-------------|------------------|---------------------|-----------------------|
| Chloride (mg/L) | YGWA-14S, YGWA-1D, ... | Yes | 4.1, 4.1, 4.1, 4.1, 4.1, 4.2, 4.2, 4.2, 4.2, 4.9, 3.7, 3.8, 3.8, 4.8, 5.2 | NP | 98 | 1.748 | 1.054 | normal | ShapiroFrancia |

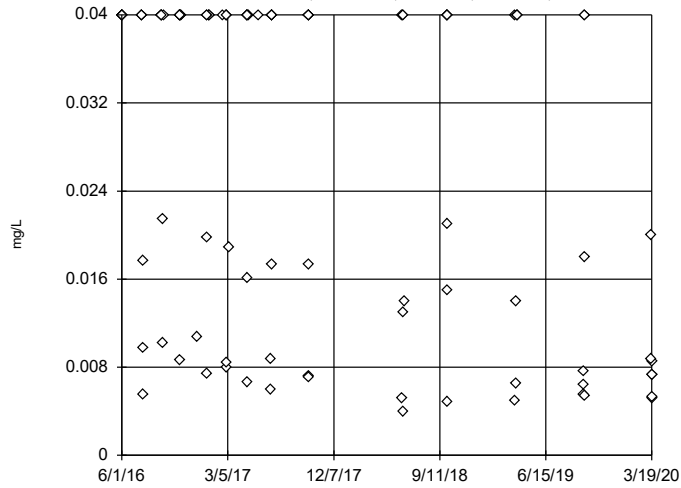
Appendix III Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/11/2020, 4:19 PM

| <u>Constituent</u> | <u>Well</u> | <u>Outlier</u> | <u>Value(s)</u> | <u>Method</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>Distribution</u> | <u>Normality Test</u> |
|-------------------------------|-------------------------------|----------------|---|---------------|-----------|--------------|------------------|---------------------|-----------------------|
| Boron (mg/L) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 98 | 0.02735 | 0.01509 | normal | ShapiroFrancia |
| Calcium (mg/L) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 98 | 13.21 | 11.18 | normal | ShapiroFrancia |
| Chloride (mg/L) | YGWA-14S, YGWA-1D, ... | Yes | 4.1, 4.1, 4.1, 4.1, 4.2, 4.2, 4.2, 4.2, 4.9, 3.7, 3.8, 3.8, 4.8, 5.2 | NP | 98 | 1.748 | 1.054 | normal | ShapiroFrancia |
| Fluoride (mg/L) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 119 | 0.2586 | 0.1406 | normal | ChiSquared |
| pH (S.U.) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 119 | 6.687 | 0.8682 | normal | ChiSquared |
| Sulfate (mg/L) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 98 | 6.415 | 3.211 | normal | ShapiroFrancia |
| Total Dissolved Solids (mg/L) | YGWA-14S, YGWA-1D, ... | No | n/a | NP | 98 | 100.5 | 50.19 | normal | ShapiroFrancia |

Tukey's Outlier Screening, Pooled Background

YGWA-14S, YGWA-1D, YGWA-1I, YGWA-2I, YGWA...

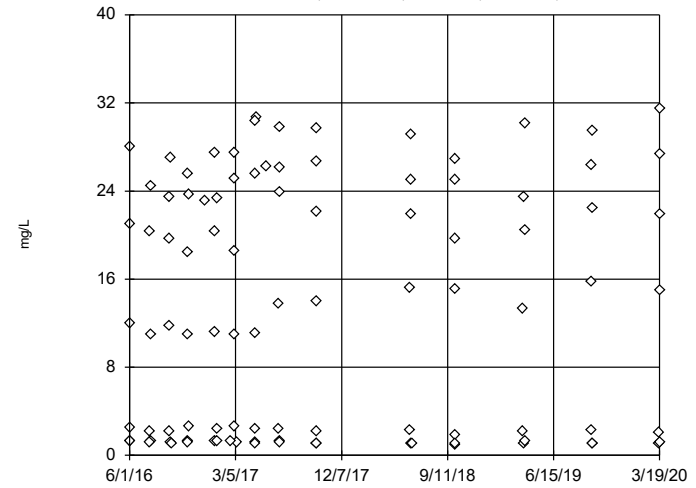


n = 98
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.1339,
 low cutoff = -0.0852,
 based on IQR multiplier of 3.

Constituent: Boron Analysis Run 5/11/2020 4:17 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S, YGWA-1D, YGWA-1I, YGWA-2I, YGWA...

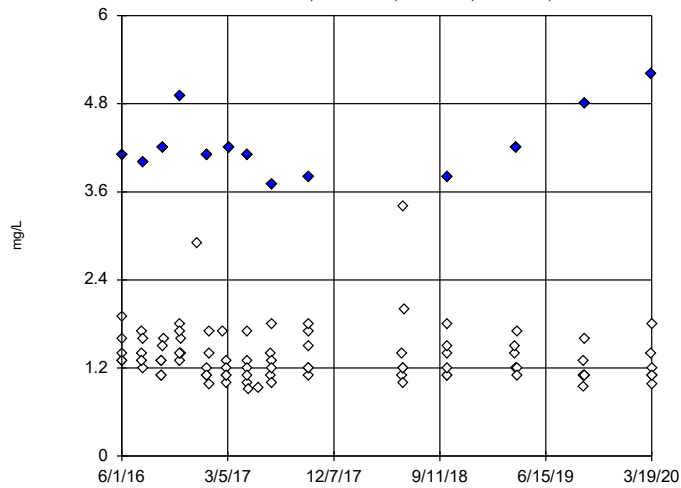


n = 98
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 93.07,
 low cutoff = -67.62,
 based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 5/11/2020 4:17 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S, YGWA-1D, YGWA-1I, YGWA-2I, YGWA...

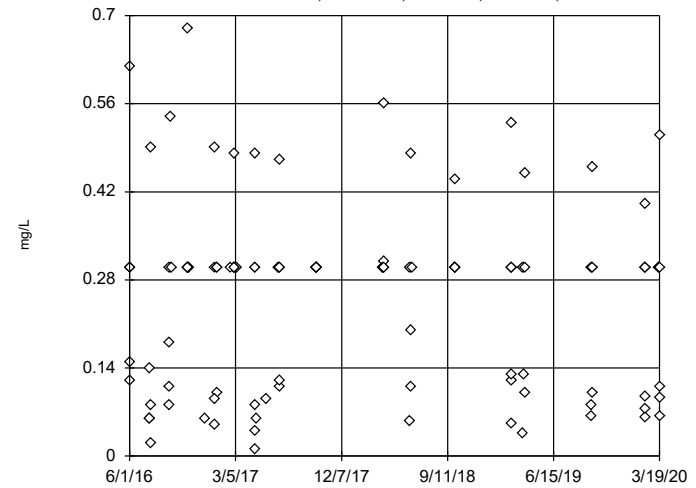


n = 98
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 3.5, low cutoff = -0.7,
 based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 5/11/2020 4:17 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S, YGWA-1D, YGWA-1I, YGWA-2I, YGWA...

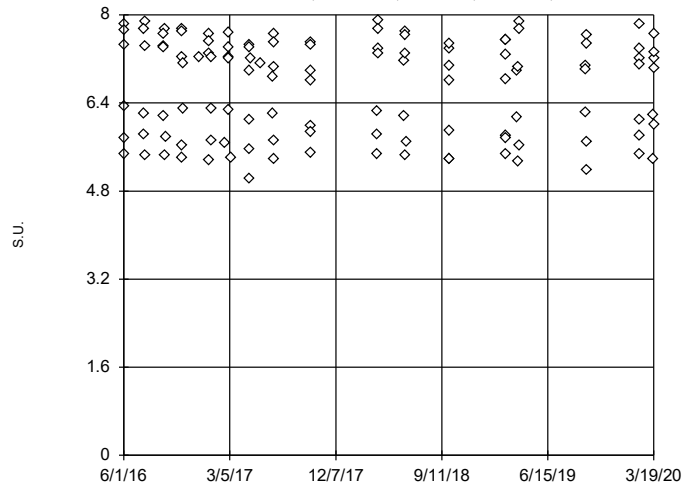


n = 119
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.87, low cutoff = -0.46,
 based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/11/2020 4:17 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S, YGWA-1D, YGWA-1I, YGWA-2I, YGWA...

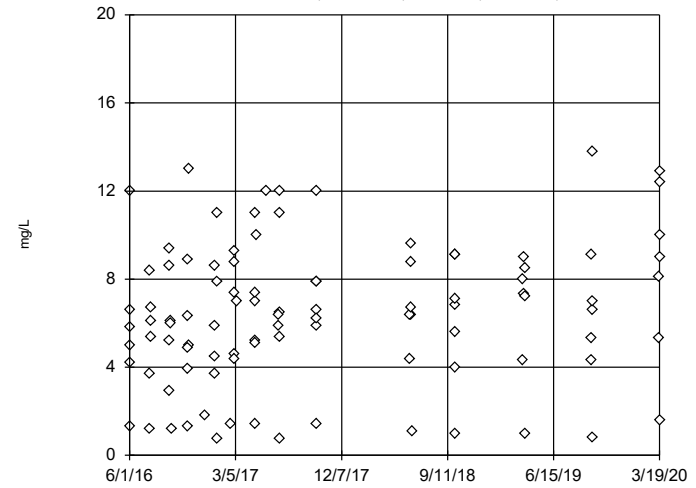


n = 119
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 12.4, low cutoff = 0.85, based on IQR multiplier of 3.

Constituent: pH Analysis Run 5/11/2020 4:17 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S, YGWA-1D, YGWA-1I, YGWA-2I, YGWA...

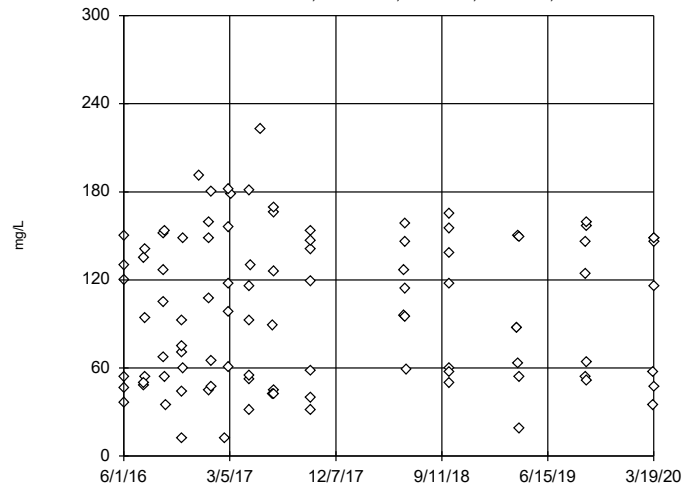


n = 98
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 21.6, low cutoff = -8.5, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 5/11/2020 4:17 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S, YGWA-1D, YGWA-1I, YGWA-2I, YGWA...



n = 98
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 430, low cutoff = -228, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids Analysis Run 5/11/2020 4:17 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Appendix IV Tukey's Outlier Analysis - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | N | Mean | Std. Dev. | Distribution | Normality Test |
|-----------------------------------|---------------|---------|----------------------|--|--------|----|-----------|-----------|--------------|----------------|
| Arsenic (mg/L) | YGWA-1D (bg) | Yes | 0.005,0.005 | 9/13/2016,11/1/2016 | NP | 16 | 0.002011 | 0.001242 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-30I (bg) | Yes | 0.005 | 3/27/2018 | NP | 16 | 0.006975 | 0.0006245 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-28I | Yes | 0.1 | 6/9/2016 | NP | 16 | 0.08876 | 0.003645 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWA-14S (bg) | Yes | 0.003,0.003 | 6/2/2016,3/27/2018 | NP | 14 | 0.0005936 | 0.00102 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWC-26S | Yes | 0.003,0.003 | 6/8/2016,3/30/2018 | NP | 14 | 0.000565 | 0.001032 | normal | ShapiroWilk |
| Cadmium (mg/L) | YGWC-28I | Yes | 0.0025,0.0025 | 3/30/2018,9/26/2019 | NP | 14 | 0.0005129 | 0.0008531 | normal | ShapiroWilk |
| Cadmium (mg/L) | YGWC-29I | Yes | 0.001,0.001 | 6/9/2016,3/29/2018 | NP | 14 | 0.0003014 | 0.0003003 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-27S | Yes | 0.005 | 3/29/2018 | NP | 16 | 0.002544 | 0.0006723 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-28S | Yes | 0.005 | 3/30/2018 | NP | 16 | 0.001263 | 0.001007 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | Yes | 6.68 | 6/8/2016 | NP | 16 | 1.223 | 1.549 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-26S | Yes | 0.03,0.44,0.16,0.044 | 9/20/2016,11/7/2016,5/3/2017,6/13/2018 | NP | 17 | 0.2685 | 0.1021 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-1I (bg) | Yes | 0.03,0.03,0.03 | 6/1/2016,9/13/2016,11/4/2016 | NP | 16 | 0.007525 | 0.01115 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-2I (bg) | Yes | 0.03,0.03 | 11/4/2016,10/1/2018 | NP | 16 | 0.005694 | 0.00953 | normal | ShapiroWilk |
| Selenium (mg/L) | YGWC-26I | Yes | 0.01,0.01 | 5/8/2017,3/30/2018 | NP | 14 | 0.003071 | 0.002941 | normal | ShapiroWilk |

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

| Constituent | Well | Outlier Value(s) | Date(s) | Method | N | Mean | Std. Dev. | Distribution | Normality Test |
|-------------------------|----------------------|------------------------|----------------------------|-----------|-----------|------------------|------------------|---------------|--------------------|
| Antimony (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 12 | 0.002792 | 0.0007217 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 12 | 0.001932 | 0.001151 | normal | ShapiroWilk |
| Antimony (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 12 | 0.002675 | 0.0008081 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 12 | 0.002072 | 0.001193 | normal | ShapiroWilk |
| Antimony (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 12 | 0.003 | 0 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 12 | 0.002512 | 0.0008862 | normal | ShapiroWilk |
| Antimony (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 12 | 0.003 | 0 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 12 | 0.002593 | 0.0009518 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 12 | 0.002775 | 0.0005259 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 12 | 0.002778 | 0.0007708 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 12 | 0.002775 | 0.0007794 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 12 | 0.003 | 0 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 12 | 0.003 | 0 | unknown | ShapiroWilk |
| Antimony (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 12 | 0.003 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWA-1D (bg) | Yes 0.005,0.005 | 9/13/2016,11/1/2016 | NP | 16 | 0.002011 | 0.001242 | normal | ShapiroWilk |
| Arsenic (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 16 | 0.004719 | 0.001125 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 16 | 0.001963 | 0.001503 | normal | ShapiroWilk |
| Arsenic (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 16 | 0.004887 | 0.00045 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 16 | 0.004656 | 0.001097 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 16 | 0.004412 | 0.001453 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWC-27I | No n/a | n/a | NP | 16 | 0.00284 | 0.002236 | normal | ShapiroWilk |
| Arsenic (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Arsenic (mg/L) | YGWC-28S | No n/a | n/a | NP | 16 | 0.002844 | 0.002228 | normal | ShapiroWilk |
| Arsenic (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Barium (mg/L) | YGWA-14S (bg) | No n/a | n/a | NP | 16 | 0.007575 | 0.001019 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 16 | 0.006844 | 0.0009647 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-1I (bg) | No n/a | n/a | NP | 16 | 0.008769 | 0.001662 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 16 | 0.004119 | 0.0008296 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-30I (bg) | Yes 0.005 | 3/27/2018 | NP | 16 | 0.006975 | 0.0006245 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 16 | 0.007312 | 0.00137 | normal | ShapiroWilk |
| Barium (mg/L) | YGWA-3I (bg) | No n/a | n/a | NP | 16 | 0.003531 | 0.0006916 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-26I | No n/a | n/a | NP | 16 | 0.06526 | 0.002713 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-26S | No n/a | n/a | NP | 16 | 0.02756 | 0.0017 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-27I | No n/a | n/a | NP | 16 | 0.06765 | 0.006649 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-27S | No n/a | n/a | NP | 16 | 0.1018 | 0.007225 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-28I | Yes 0.1 | 6/9/2016 | NP | 16 | 0.08876 | 0.003645 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-28S | No n/a | n/a | NP | 16 | 0.2102 | 0.01155 | normal | ShapiroWilk |
| Barium (mg/L) | YGWC-29I | No n/a | n/a | NP | 16 | 0.06773 | 0.008408 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWA-14S (bg) | Yes 0.003,0.003 | 6/2/2016,3/27/2018 | NP | 14 | 0.0005936 | 0.00102 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 14 | 0.002791 | 0.0007825 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWC-26S | Yes 0.003,0.003 | 6/8/2016,3/30/2018 | NP | 14 | 0.000565 | 0.001032 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWC-27I | No n/a | n/a | NP | 14 | 0.0007907 | 0.001198 | normal | ShapiroWilk |
| Beryllium (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Beryllium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

| Constituent | Well | Outlier Value(s) | Date(s) | Method | N | Mean | Std. Dev. | Distribution | Normality Test |
|--|-----------------|--------------------------|----------------------------|-----------|-----------|------------------|------------------|---------------|--------------------|
| Beryllium (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 14 | 0.003 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 14 | 0.002326 | 0.0006494 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 14 | 0.002336 | 0.0006147 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 14 | 0.002329 | 0.0006414 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 14 | 0.002327 | 0.0006468 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-28I | Yes 0.0025,0.0025 | 3/30/2018,9/26/2019 | NP | 14 | 0.0005129 | 0.0008531 | normal | ShapiroWilk |
| Cadmium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 14 | 0.0025 | 0 | unknown | ShapiroWilk |
| Cadmium (mg/L) | YGWC-29I | Yes 0.001,0.001 | 6/9/2016,3/29/2018 | NP | 14 | 0.0003014 | 0.0003003 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 14 | 0.006884 | 0.004394 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWA-1I (bg) | No n/a | n/a | NP | 14 | 0.007553 | 0.004057 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 14 | 0.007956 | 0.004062 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 14 | 0.0094 | 0.002245 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 14 | 0.008093 | 0.003794 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 14 | 0.008736 | 0.003227 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWC-26I | No n/a | n/a | NP | 14 | 0.006294 | 0.004571 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWC-26S | No n/a | n/a | NP | 14 | 0.003943 | 0.003491 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 14 | 0.009679 | 0.002959 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWC-28I | No n/a | n/a | NP | 14 | 0.007958 | 0.004058 | normal | ShapiroWilk |
| Chromium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 14 | 0.008642 | 0.003452 | unknown | ShapiroWilk |
| Chromium (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 14 | 0.009321 | 0.002539 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWA-1I (bg) | No n/a | n/a | NP | 16 | 0.001871 | 0.001406 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWA-30I (bg) | No n/a | n/a | NP | 16 | 0.02335 | 0.005626 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 16 | 0.005 | 0 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWC-26S | No n/a | n/a | NP | 16 | 0.0025 | 0.0008446 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-27I | No n/a | n/a | NP | 16 | 0.02107 | 0.02867 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-27S | Yes 0.005 | 3/29/2018 | NP | 16 | 0.002544 | 0.0006723 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 16 | 0.004714 | 0.001145 | unknown | ShapiroWilk |
| Cobalt (mg/L) | YGWC-28S | Yes 0.005 | 3/30/2018 | NP | 16 | 0.001263 | 0.001007 | normal | ShapiroWilk |
| Cobalt (mg/L) | YGWC-29I | No n/a | n/a | NP | 16 | 0.003882 | 0.002 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-14S (bg) | No n/a | n/a | NP | 16 | 0.5584 | 0.4684 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-1D (bg) | No n/a | n/a | NP | 16 | 0.8898 | 0.3394 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-1I (bg) | No n/a | n/a | NP | 16 | 0.7925 | 0.7051 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-2I (bg) | No n/a | n/a | NP | 16 | 0.5056 | 0.2716 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-30I (bg) | No n/a | n/a | NP | 16 | 0.7335 | 0.6871 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-3D (bg) | No n/a | n/a | NP | 16 | 3.386 | 0.6987 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWA-3I (bg) | No n/a | n/a | NP | 16 | 1.509 | 0.8338 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | Yes 6.68 | 6/8/2016 | NP | 16 | 1.223 | 1.549 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26S | No n/a | n/a | NP | 16 | 0.7387 | 0.2913 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27I | No n/a | n/a | NP | 16 | 3.596 | 1.038 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27S | No n/a | n/a | NP | 16 | 0.8785 | 0.3209 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | No n/a | n/a | NP | 16 | 0.6106 | 0.348 | normal | ShapiroWilk |

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

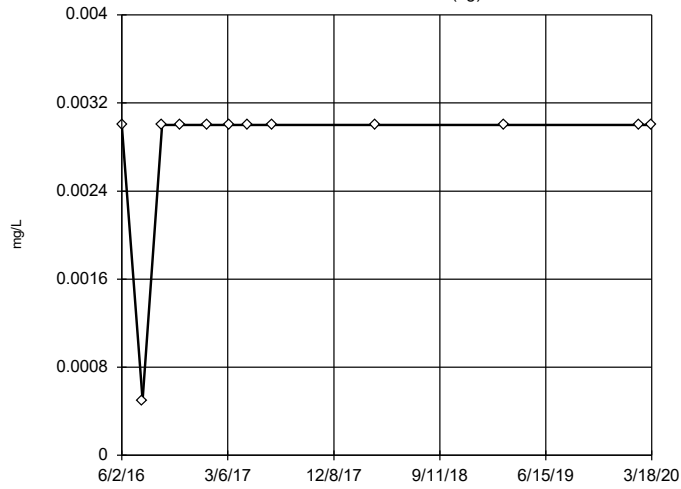
| Constituent | Well | Outlier | Value(s) | Date(s) | Method | N | Mean | Std. Dev. | Distribution | Normality Test |
|-----------------------------------|---------------------|------------|-----------------------------|---|-----------|-----------|-----------------|----------------|---------------|--------------------|
| Combined Radium 226 + 228 (pCi/L) | YGWC-28S | No | n/a | n/a | NP | 16 | 0.6791 | 0.365 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | YGWC-29I | No | n/a | n/a | NP | 16 | 0.9488 | 0.384 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWA-14S (bg) | n/a | n/a | n/a | NP | 17 | 0.2835 | 0.06791 | unknown | ShapiroWilk |
| Fluoride (mg/L) | YGWA-1D (bg) | No | n/a | n/a | NP | 17 | 0.1489 | 0.117 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWA-1I (bg) | n/a | n/a | n/a | NP | 17 | 0.2688 | 0.08845 | unknown | ShapiroWilk |
| Fluoride (mg/L) | YGWA-2I (bg) | No | n/a | n/a | NP | 17 | 0.1541 | 0.1002 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWA-30I (bg) | n/a | n/a | n/a | NP | 17 | 0.2859 | 0.05821 | unknown | ShapiroWilk |
| Fluoride (mg/L) | YGWA-3D (bg) | No | n/a | n/a | NP | 17 | 0.5029 | 0.06789 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWA-3I (bg) | No | n/a | n/a | NP | 17 | 0.1761 | 0.08801 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-26I | No | n/a | n/a | NP | 17 | 0.1822 | 0.1152 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-26S | Yes | 0.03,0.44,0.16,0.044 | 9/20/2016,11/7/2016,5/3/2017,6/13/2018 | NP | 17 | 0.2685 | 0.1021 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-27I | No | n/a | n/a | NP | 17 | 0.2394 | 0.09945 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-27S | No | n/a | n/a | NP | 17 | 0.2113 | 0.1111 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-28I | No | n/a | n/a | NP | 17 | 0.1956 | 0.1074 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-28S | No | n/a | n/a | NP | 17 | 0.2465 | 0.09239 | normal | ShapiroWilk |
| Fluoride (mg/L) | YGWC-29I | No | n/a | n/a | NP | 17 | 0.1693 | 0.1149 | normal | ShapiroWilk |
| Lead (mg/L) | YGWA-14S (bg) | n/a | n/a | n/a | NP | 12 | 0.004592 | 0.001415 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWA-1D (bg) | No | n/a | n/a | NP | 12 | 0.002994 | 0.002482 | normal | ShapiroWilk |
| Lead (mg/L) | YGWA-1I (bg) | n/a | n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWA-2I (bg) | n/a | n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWA-30I (bg) | n/a | n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWA-3D (bg) | No | n/a | n/a | NP | 12 | 0.003019 | 0.00245 | normal | ShapiroWilk |
| Lead (mg/L) | YGWA-3I (bg) | n/a | n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWC-26I | n/a | n/a | n/a | NP | 12 | 0.004588 | 0.001426 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWC-26S | n/a | n/a | n/a | NP | 12 | 0.004182 | 0.001911 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWC-27I | n/a | n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWC-27S | No | n/a | n/a | NP | 12 | 0.003779 | 0.002209 | normal | ShapiroWilk |
| Lead (mg/L) | YGWC-28I | n/a | n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lead (mg/L) | YGWC-28S | No | n/a | n/a | NP | 12 | 0.003767 | 0.002231 | normal | ShapiroWilk |
| Lead (mg/L) | YGWC-29I | n/a | n/a | n/a | NP | 12 | 0.005 | 0 | unknown | ShapiroWilk |
| Lithium (mg/L) | YGWA-14S (bg) | n/a | n/a | n/a | NP | 16 | 0.03 | 0 | unknown | ShapiroWilk |
| Lithium (mg/L) | YGWA-1D (bg) | No | n/a | n/a | NP | 16 | 0.01147 | 0.003797 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-1I (bg) | Yes | 0.03,0.03,0.03 | 6/1/2016,9/13/2016,11/4/2016 | NP | 16 | 0.007525 | 0.01115 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-2I (bg) | Yes | 0.03,0.03 | 11/4/2016,10/1/2018 | NP | 16 | 0.005694 | 0.00953 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-30I (bg) | No | n/a | n/a | NP | 16 | 0.01737 | 0.01479 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-3D (bg) | No | n/a | n/a | NP | 16 | 0.01969 | 0.001571 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWA-3I (bg) | No | n/a | n/a | NP | 16 | 0.01152 | 0.001838 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWC-26I | No | n/a | n/a | NP | 16 | 0.006738 | 0.000438 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWC-26S | n/a | n/a | n/a | NP | 16 | 0.03 | 0 | unknown | ShapiroWilk |
| Lithium (mg/L) | YGWC-27I | No | n/a | n/a | NP | 16 | 0.009631 | 0.001871 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWC-27S | n/a | n/a | n/a | NP | 16 | 0.03 | 0 | unknown | ShapiroWilk |
| Lithium (mg/L) | YGWC-28I | No | n/a | n/a | NP | 16 | 0.006881 | 0.0003449 | normal | ShapiroWilk |
| Lithium (mg/L) | YGWC-28S | n/a | n/a | n/a | NP | 16 | 0.03 | 0 | unknown | ShapiroWilk |
| Lithium (mg/L) | YGWC-29I | No | n/a | n/a | NP | 16 | 0.006056 | 0.0008839 | normal | ShapiroWilk |
| Mercury (mg/L) | YGWA-14S (bg) | n/a | n/a | n/a | NP | 13 | 0.0004662 | 0.0001218 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-1D (bg) | n/a | n/a | n/a | NP | 13 | 0.0004301 | 0.0001707 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-1I (bg) | n/a | n/a | n/a | NP | 13 | 0.0004657 | 0.0001237 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-2I (bg) | n/a | n/a | n/a | NP | 13 | 0.0005 | 0 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-30I (bg) | n/a | n/a | n/a | NP | 13 | 0.0004346 | 0.0001596 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-3D (bg) | n/a | n/a | n/a | NP | 13 | 0.0004352 | 0.0001583 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWA-3I (bg) | n/a | n/a | n/a | NP | 13 | 0.0004342 | 0.0001606 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-26I | n/a | n/a | n/a | NP | 13 | 0.0004309 | 0.0001686 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-26S | n/a | n/a | n/a | NP | 13 | 0.0004319 | 0.0001662 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-27I | n/a | n/a | n/a | NP | 13 | 0.0004307 | 0.0001692 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-27S | n/a | n/a | n/a | NP | 13 | 0.00043 | 0.0001709 | unknown | ShapiroWilk |

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

| Constituent | Well | Outlier Value(s) | Date(s) | Method | N | Mean | Std. Dev. | Distribution | Normality Test |
|------------------------|-----------------|----------------------|---------------------------|-----------|-----------|-----------------|-----------------|---------------|--------------------|
| Mercury (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 13 | 0.0004652 | 0.0001254 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 13 | 0.0004655 | 0.0001243 | unknown | ShapiroWilk |
| Mercury (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 13 | 0.0004297 | 0.0001716 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-1D (bg) | No n/a | n/a | NP | 16 | 0.009763 | 0.00193 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-1I (bg) | No n/a | n/a | NP | 16 | 0.008581 | 0.001688 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-2I (bg) | No n/a | n/a | NP | 16 | 0.004694 | 0.001233 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-3D (bg) | No n/a | n/a | NP | 16 | 0.011103 | 0.001161 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWA-3I (bg) | No n/a | n/a | NP | 16 | 0.004338 | 0.002047 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-27I | No n/a | n/a | NP | 16 | 0.006756 | 0.004328 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-28I | No n/a | n/a | NP | 16 | 0.006206 | 0.004443 | normal | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 16 | 0.008831 | 0.003194 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 16 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-14S (bg) | No n/a | n/a | NP | 14 | 0.006943 | 0.00426 | normal | ShapiroWilk |
| Selenium (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWC-26I | Yes 0.01,0.01 | 5/8/2017,3/30/2018 | NP | 14 | 0.003071 | 0.002941 | normal | ShapiroWilk |
| Selenium (mg/L) | YGWC-26S | No n/a | n/a | NP | 14 | 0.00745 | 0.004192 | normal | ShapiroWilk |
| Selenium (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWC-27S | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 14 | 0.009371 | 0.002352 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 14 | 0.009357 | 0.002405 | unknown | ShapiroWilk |
| Selenium (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 14 | 0.01 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-14S (bg) | n/a n/a | n/a | NP | 12 | 0.0009241 | 0.000263 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-1D (bg) | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-1I (bg) | n/a n/a | n/a | NP | 12 | 0.0009213 | 0.0002728 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-2I (bg) | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-30I (bg) | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-3D (bg) | n/a n/a | n/a | NP | 12 | 0.000925 | 0.0002598 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWA-3I (bg) | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-26I | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-26S | n/a n/a | n/a | NP | 12 | 0.0008427 | 0.0003675 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-27I | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-27S | No n/a | n/a | NP | 12 | 0.0005525 | 0.0004674 | normal | ShapiroWilk |
| Thallium (mg/L) | YGWC-28I | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-28S | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |
| Thallium (mg/L) | YGWC-29I | n/a n/a | n/a | NP | 12 | 0.001 | 0 | unknown | ShapiroWilk |

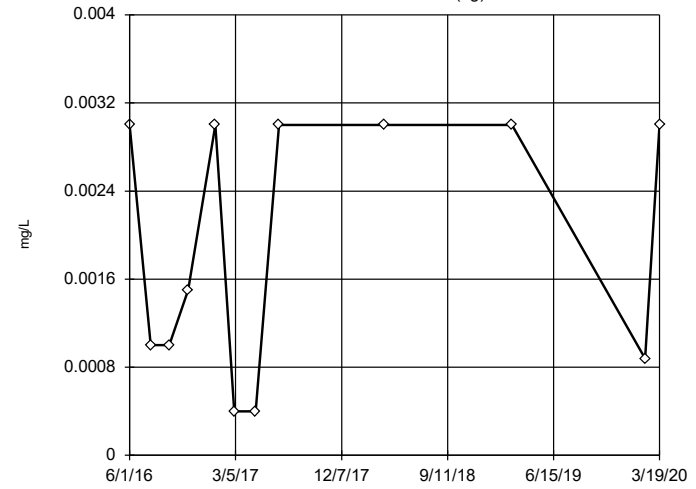
Tukey's Outlier Screening YGWA-14S (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

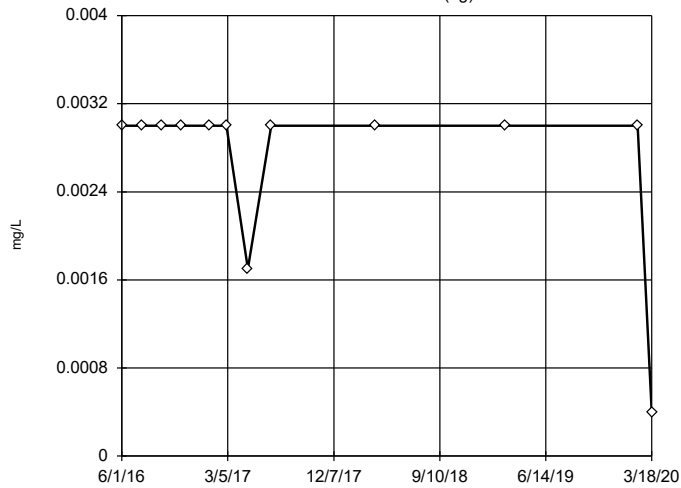
Tukey's Outlier Screening YGWA-1D (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00918,
 low cutoff = -0.00524,
 based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

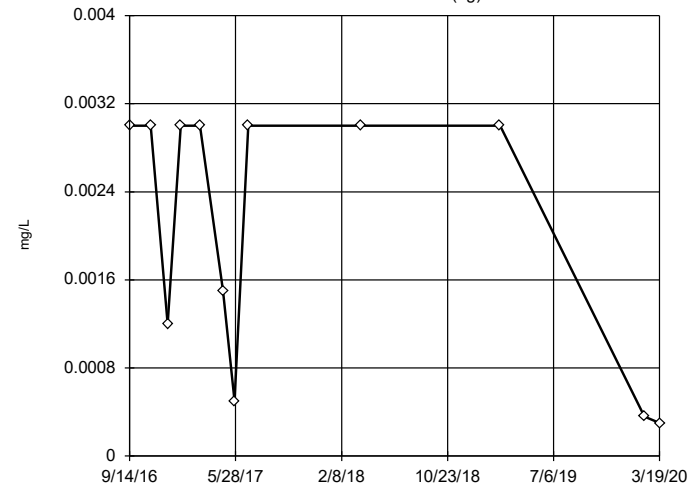
Tukey's Outlier Screening YGWA-11 (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

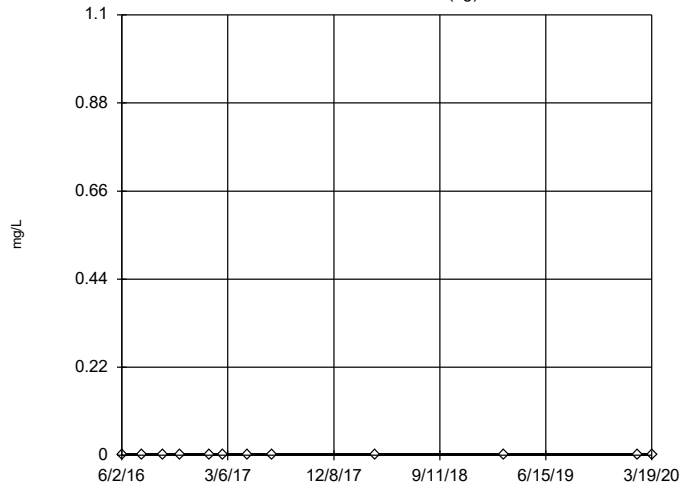
Tukey's Outlier Screening YGWA-2I (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00945,
 low cutoff = -0.0056,
 based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

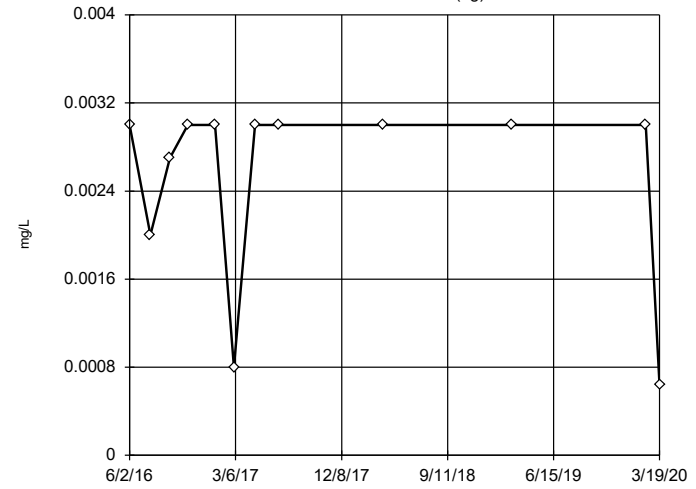
Tukey's Outlier Screening
YGWA-30I (bg)



n = 12
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

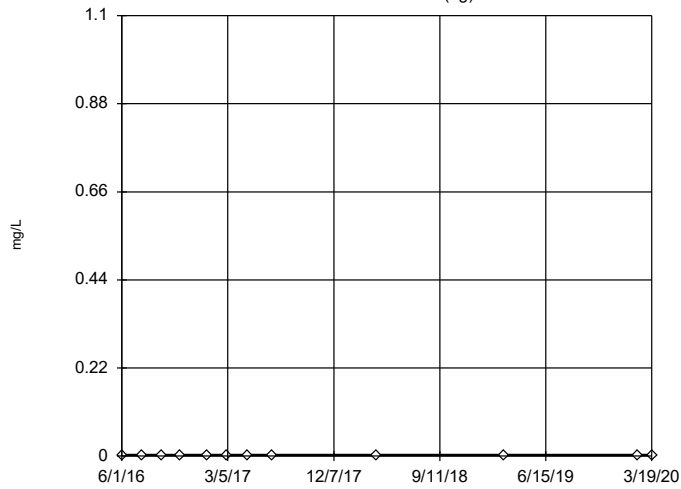
Tukey's Outlier Screening
YGWA-3D (bg)



n = 12
No outliers found.
Tukey's method selected by user.
High cutoff = 0.00495,
low cutoff = 0.0004, based
on IQR multiplier of 3.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

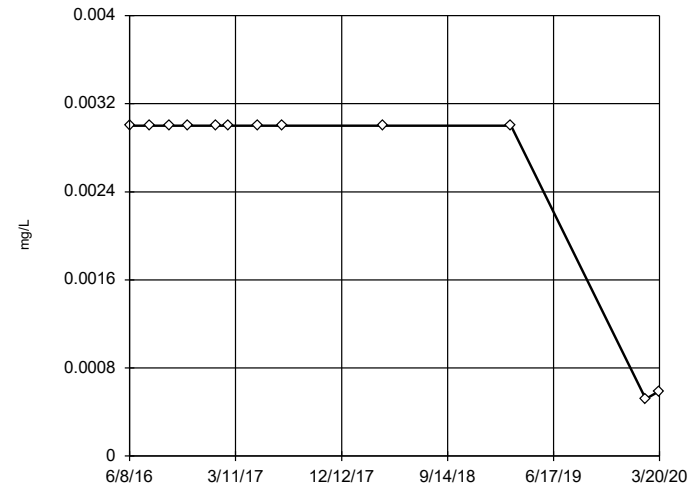
Tukey's Outlier Screening
YGWA-3I (bg)



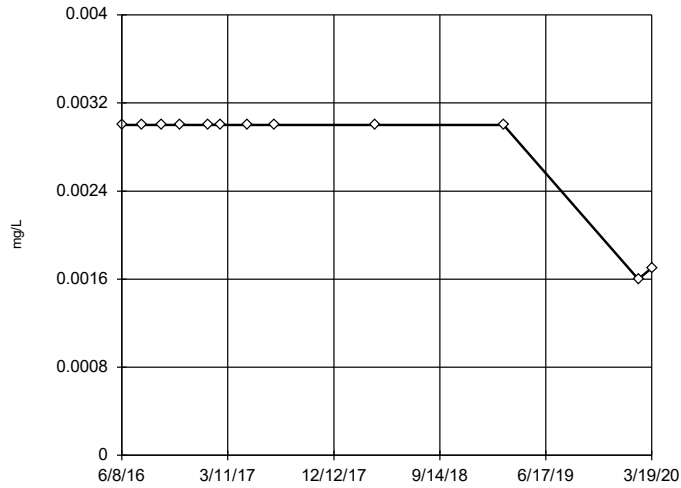
n = 12
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening
YGWC-26I



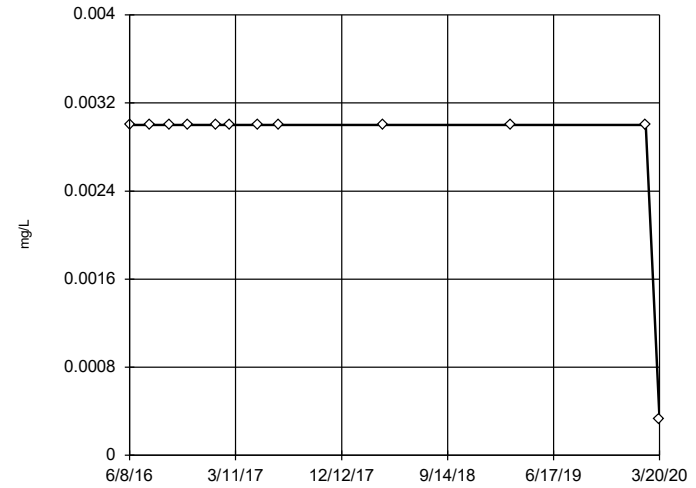
Tukey's Outlier Screening YGWC-26S



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

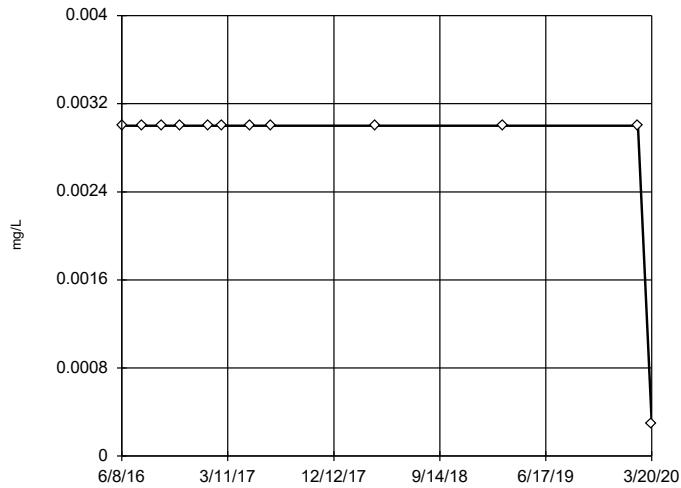
Tukey's Outlier Screening YGWC-27I



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

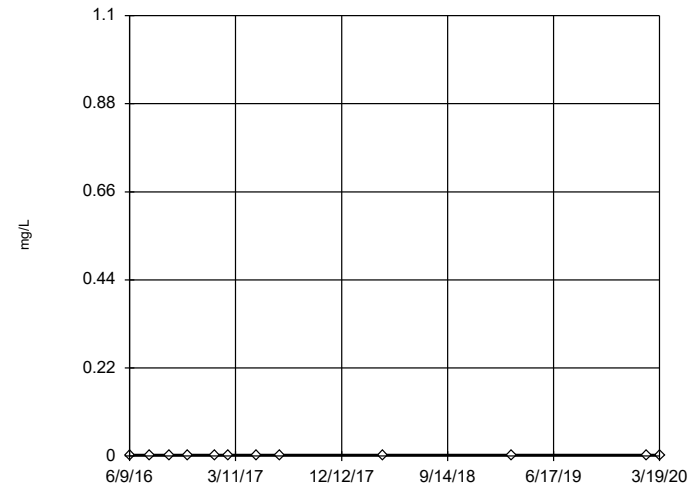
Tukey's Outlier Screening YGWC-27S



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

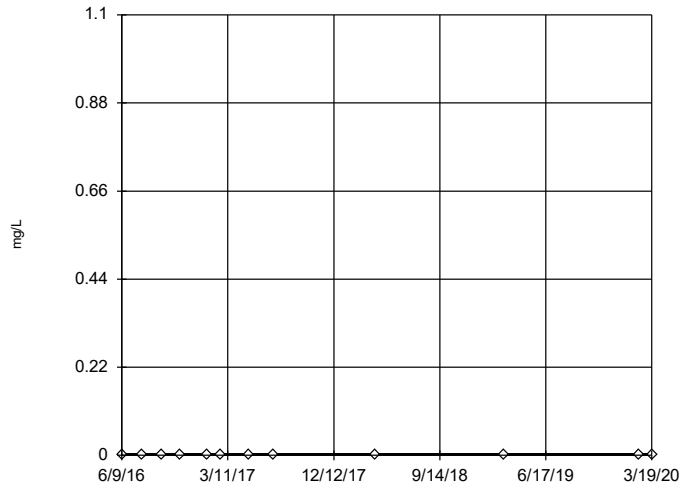
Tukey's Outlier Screening YGWC-28I



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

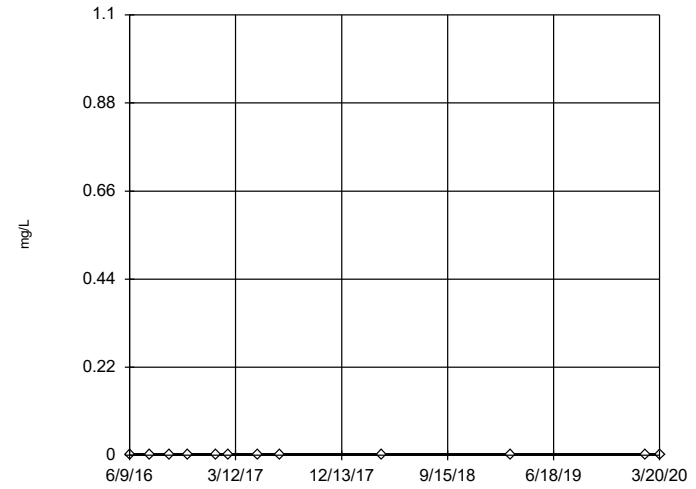
Tukey's Outlier Screening
YGWC-28S



n = 12
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

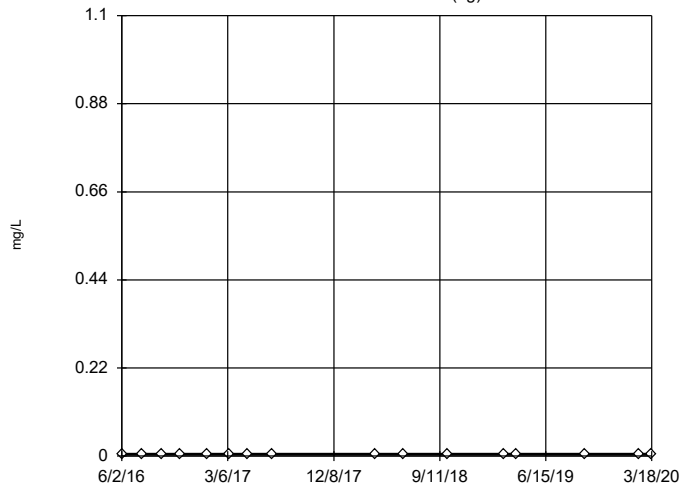
Tukey's Outlier Screening
YGWC-29I



n = 12
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

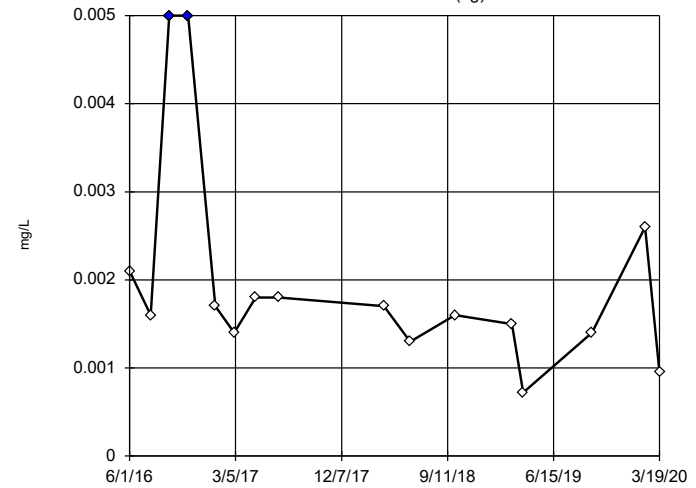
Tukey's Outlier Screening
YGWA-14S (bg)



n = 16
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening
YGWA-1D (bg)

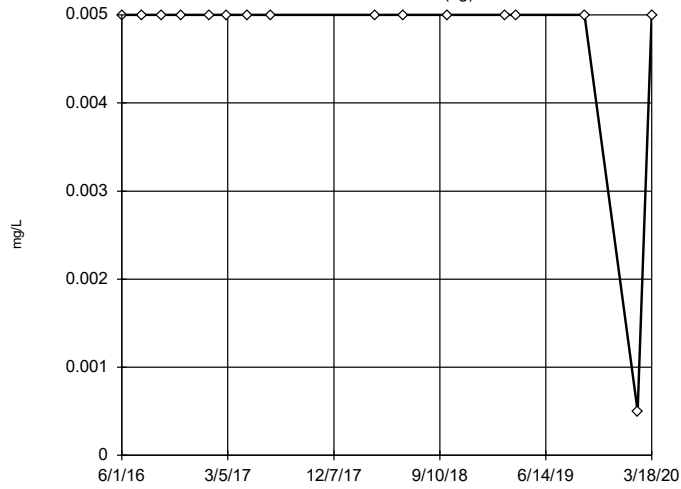


n = 16
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.0036,
low cutoff = -0.00025,
based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-11 (bg)

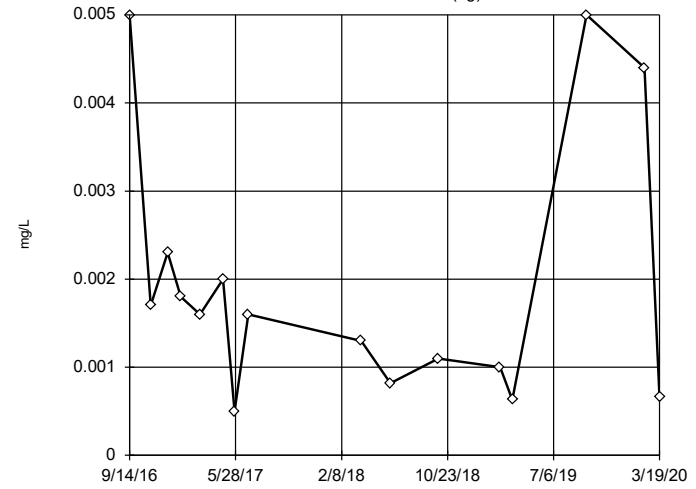


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-21 (bg)

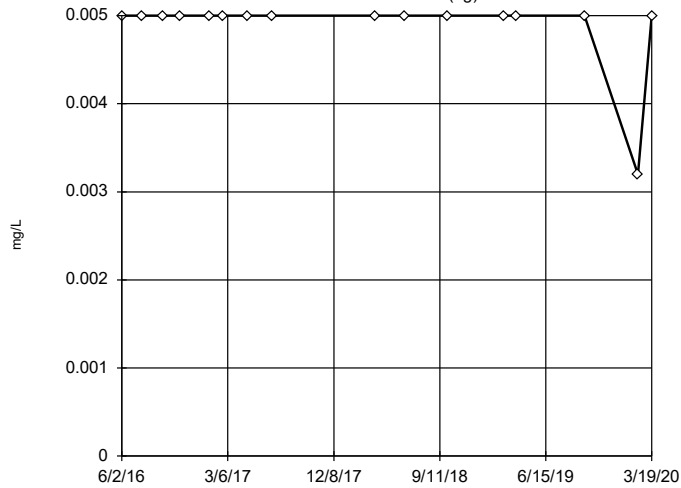


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00587,
 low cutoff = -0.00281,
 based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-30I (bg)

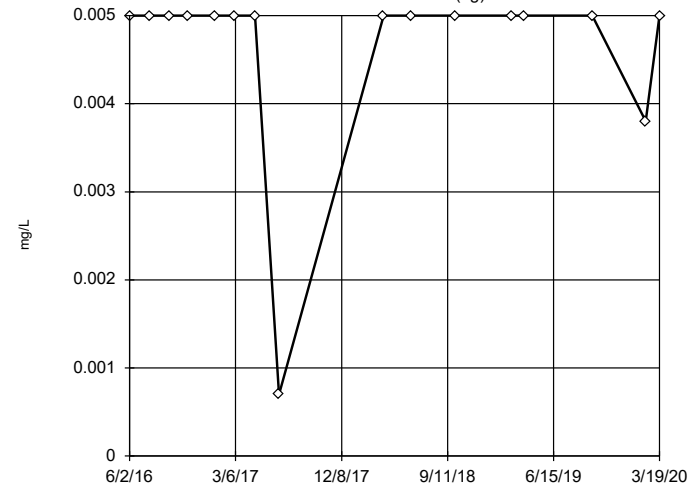


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3D (bg)

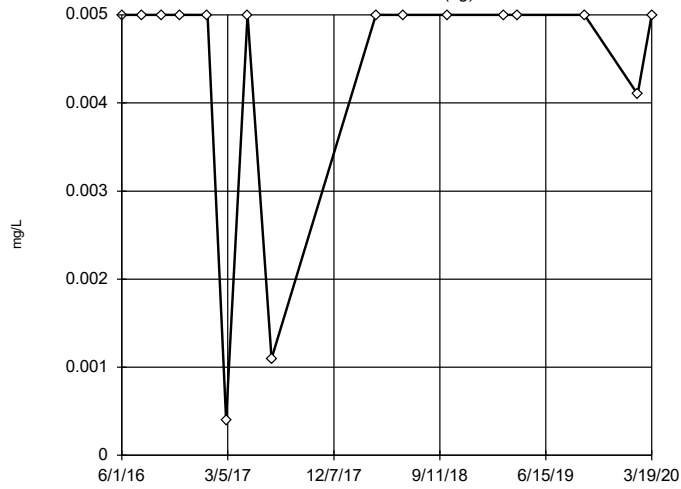


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3I (bg)

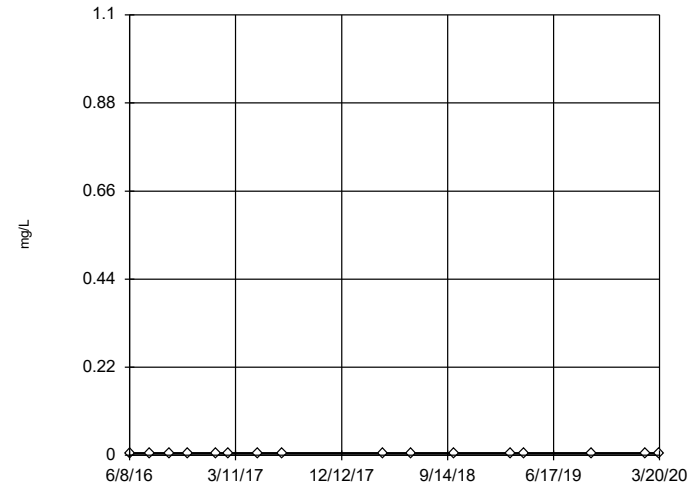


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-26I

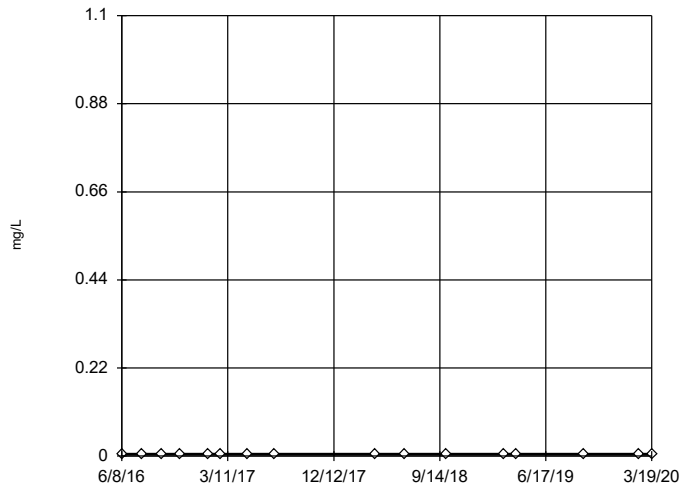


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-26S

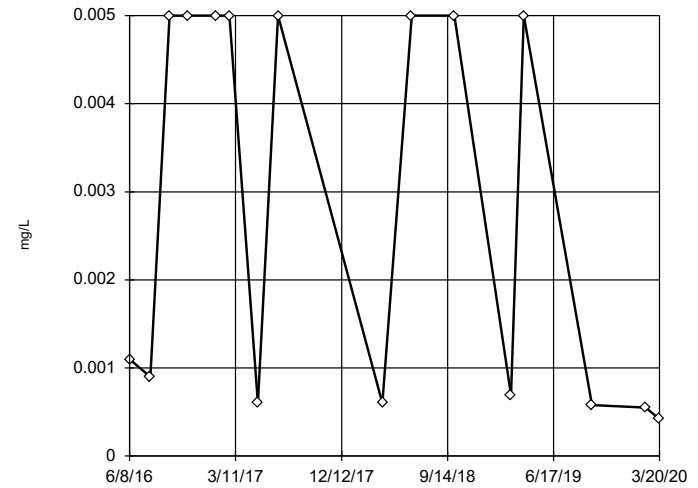


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

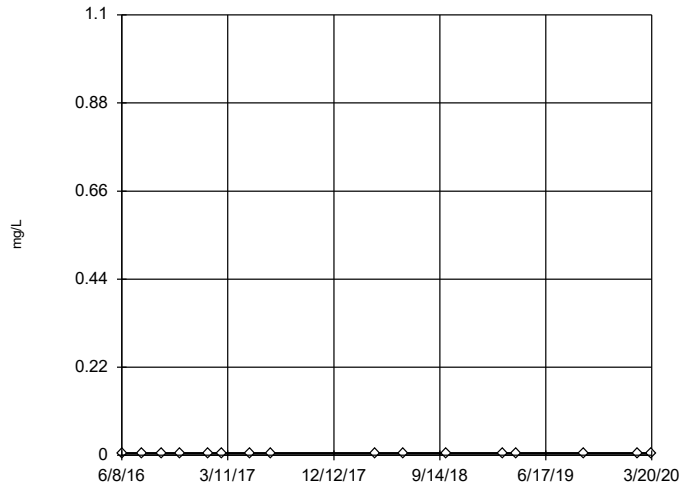
Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-27I



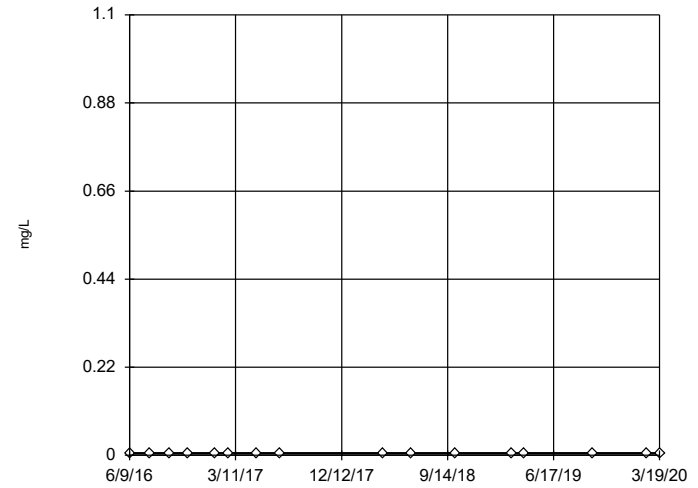
Tukey's Outlier Screening
YGWC-27S



n = 16
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

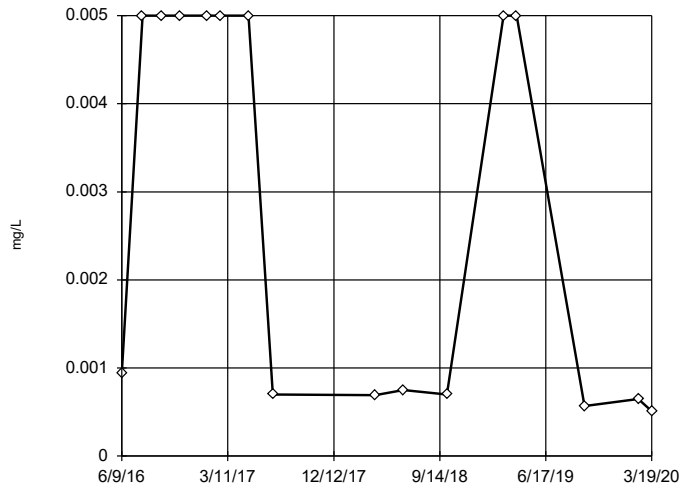
Tukey's Outlier Screening
YGWC-28I



n = 16
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

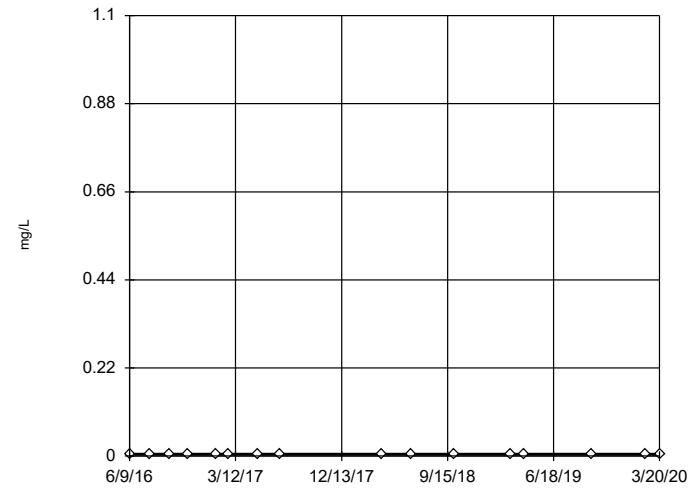
Tukey's Outlier Screening
YGWC-28S



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.01791,
low cutoff = -0.01222,
based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

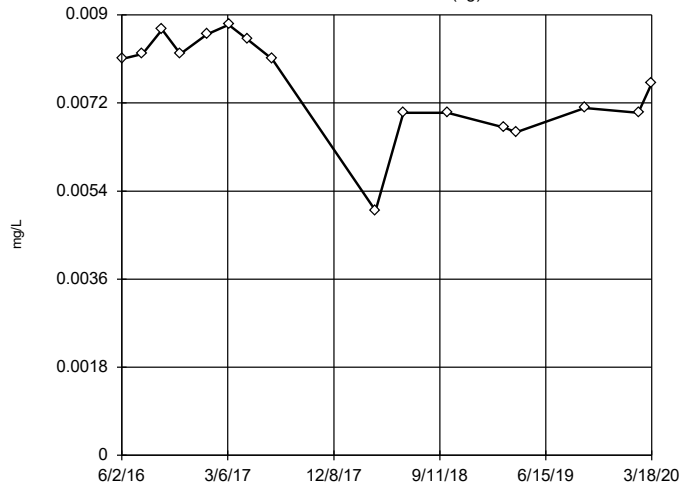
Tukey's Outlier Screening
YGWC-29I



n = 16
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

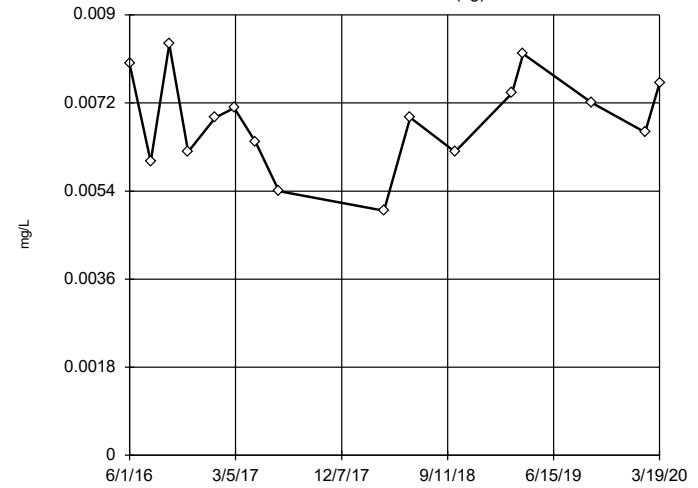
Tukey's Outlier Screening
YGWA-14S (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0124,
low cutoff = 0.00295,
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

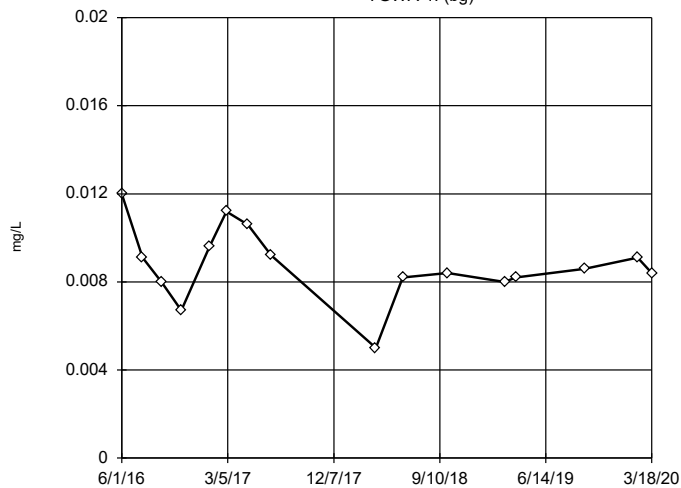
Tukey's Outlier Screening
YGWA-1D (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0114,
low cutoff = 0.0023, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

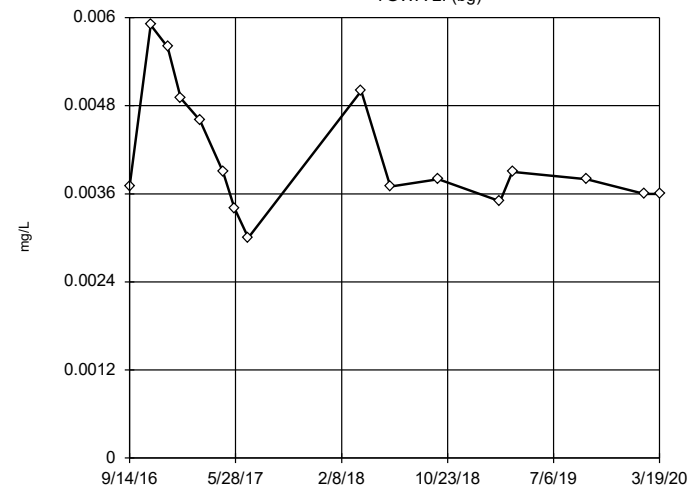
Tukey's Outlier Screening
YGWA-11 (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0133,
low cutoff = 0.0042, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

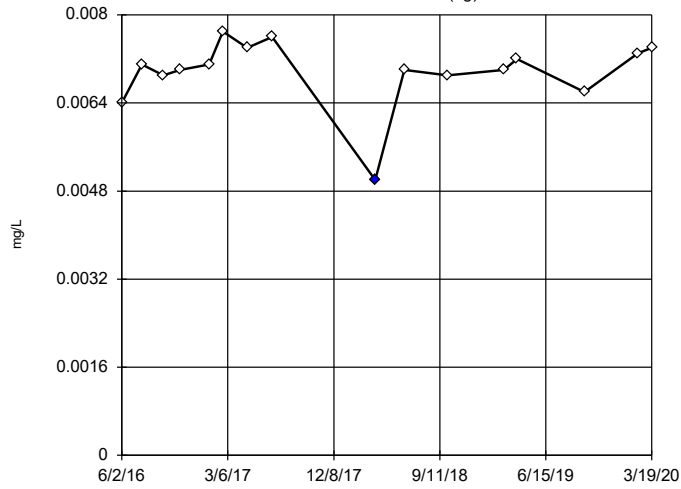
Tukey's Outlier Screening
YGWA-2I (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0082,
low cutoff = 0.00015, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

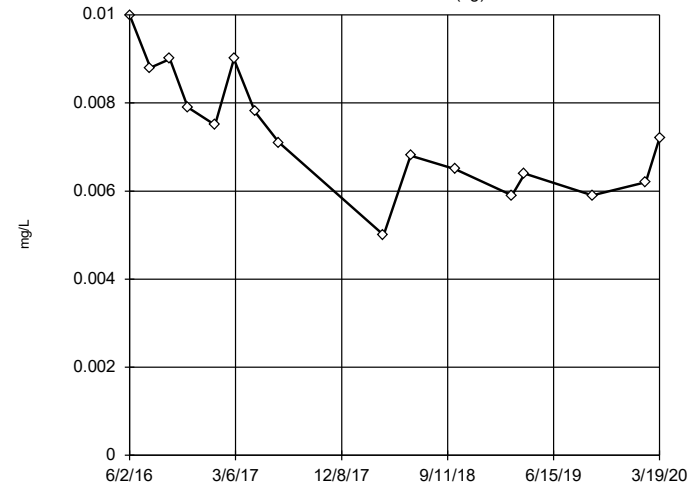
Tukey's Outlier Screening
YGWA-30I (bg)



n = 16
Outlier is drawn as solid.
Tukey's method selected by user.
High cutoff = 0.0087,
low cutoff = 0.00555,
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

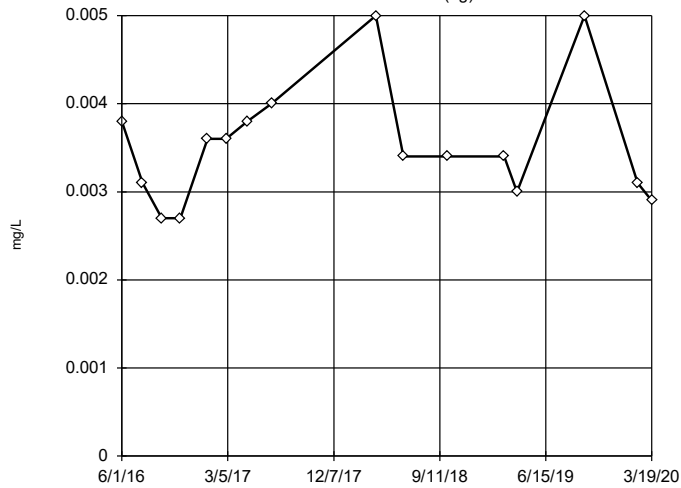
Tukey's Outlier Screening
YGWA-3D (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0145,
low cutoff = 0.00015,
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

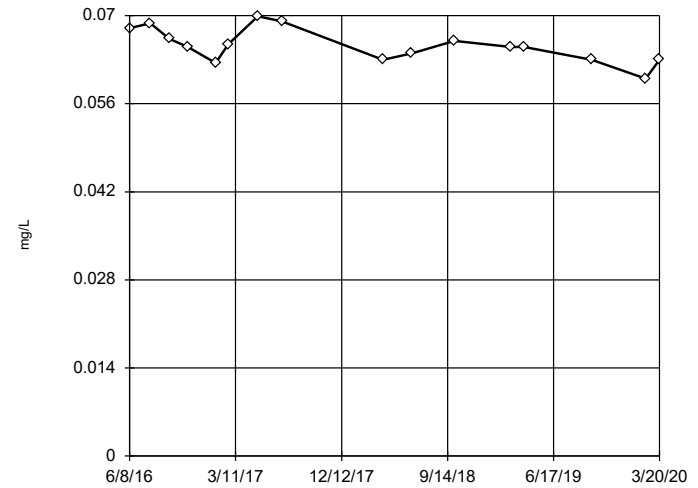
Tukey's Outlier Screening
YGWA-3I (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.00605,
low cutoff = 0.0008, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

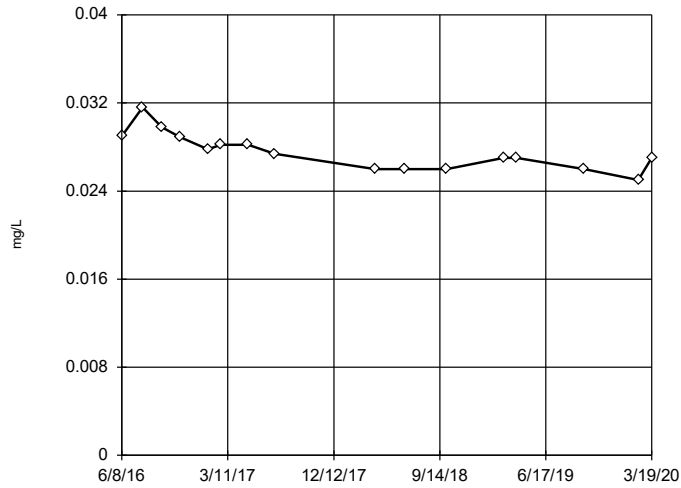
Tukey's Outlier Screening
YGWC-26I



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0796,
low cutoff = 0.05055,
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

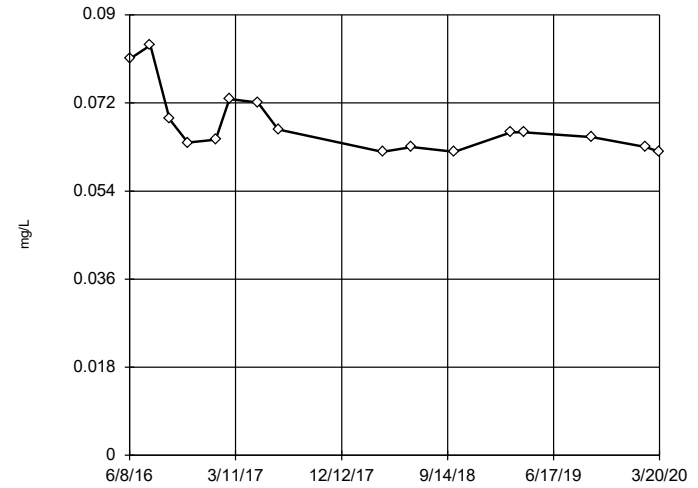
Tukey's Outlier Screening
YGWC-26S



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0362,
low cutoff = 0.01835,
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

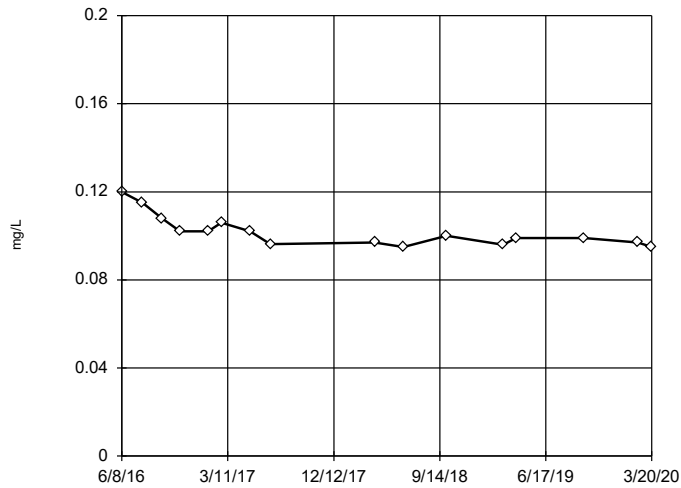
Tukey's Outlier Screening
YGWC-27I



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0926,
low cutoff = 0.0408, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

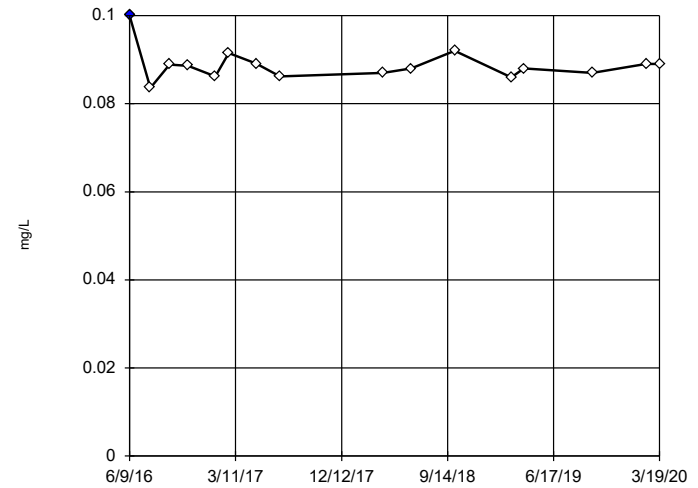
Tukey's Outlier Screening
YGWC-27S



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.1261,
low cutoff = 0.0746, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

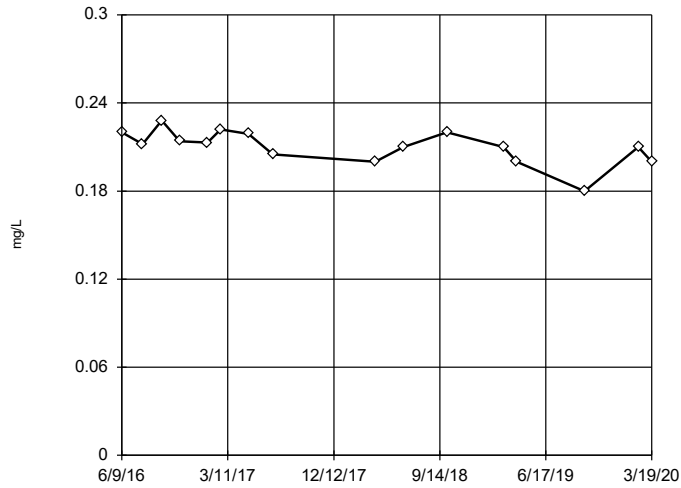
Tukey's Outlier Screening
YGWC-28I



n = 16
Outlier is drawn as solid.
Tukey's method selected by user.
High cutoff = 0.0964,
low cutoff = 0.07925, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

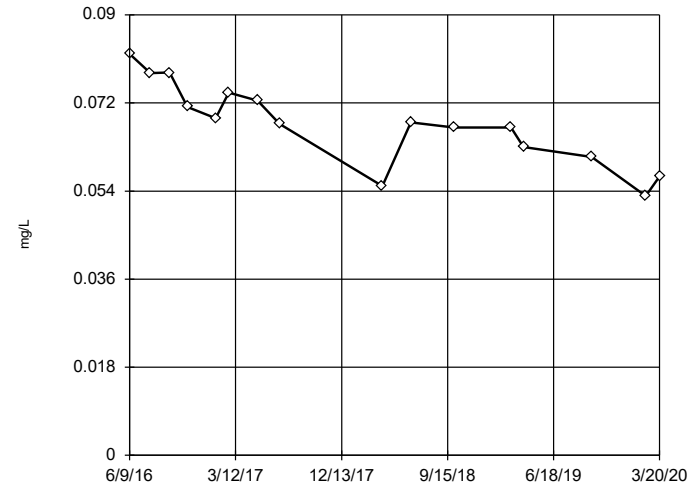
Tukey's Outlier Screening
YGWC-28S



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.2705,
low cutoff = 0.1515, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

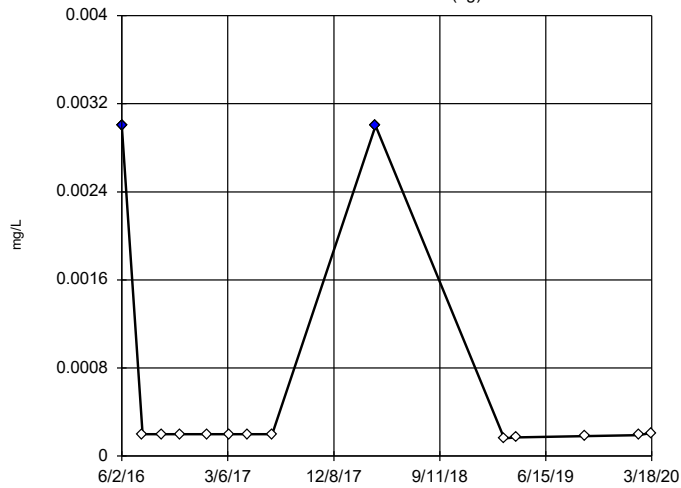
Tukey's Outlier Screening
YGWC-29I



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.1072,
low cutoff = 0.0281, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

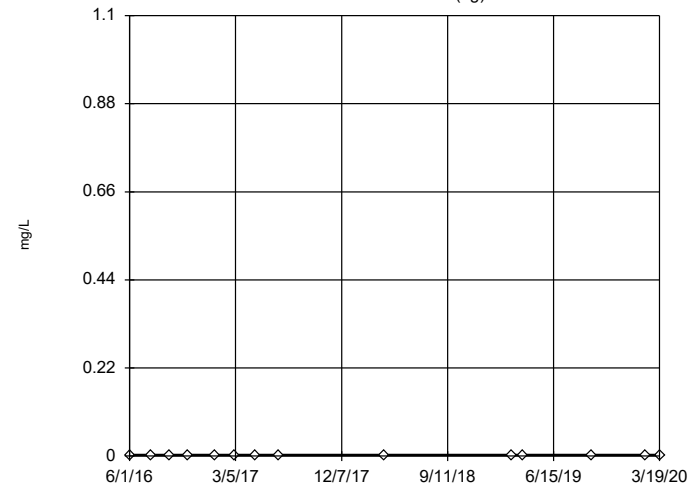
Tukey's Outlier Screening
YGWA-14S (bg)



n = 14
Outliers are drawn as
solid.
Tukey's method selected
by user.
High cutoff = 0.000265,
low cutoff = 0.000125,
based on IQR multiplier
of 3.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

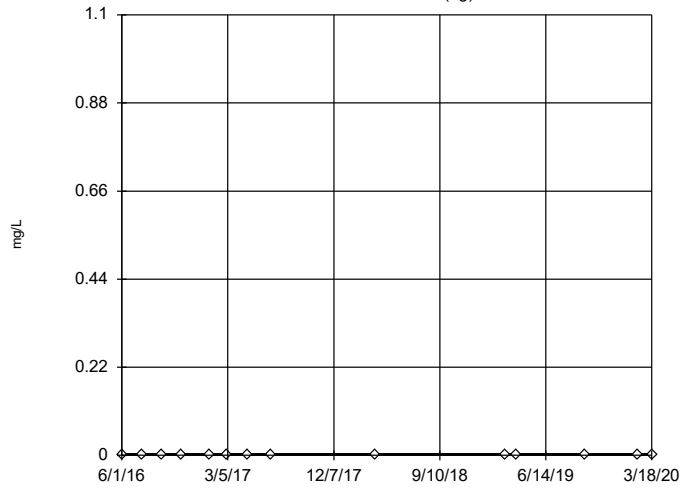
Tukey's Outlier Screening
YGWA-1D (bg)



n = 14
No outliers found.
Tukey's method selected
by user.
The results were invalid-
ated, because the lower
and upper quartiles are
equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

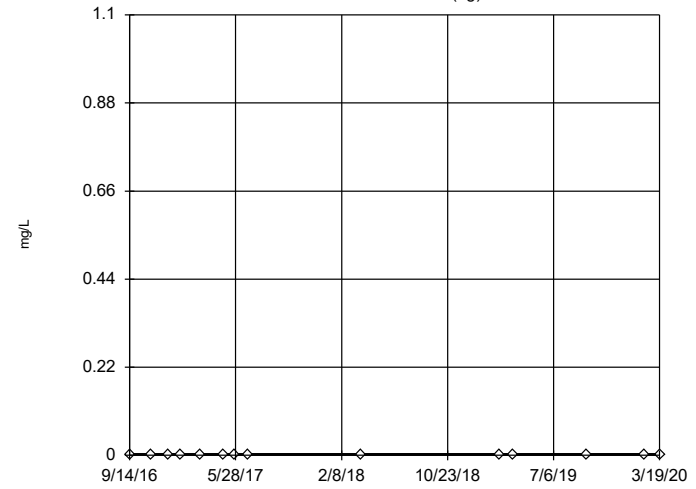
Tukey's Outlier Screening
YGWA-11 (bg)



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

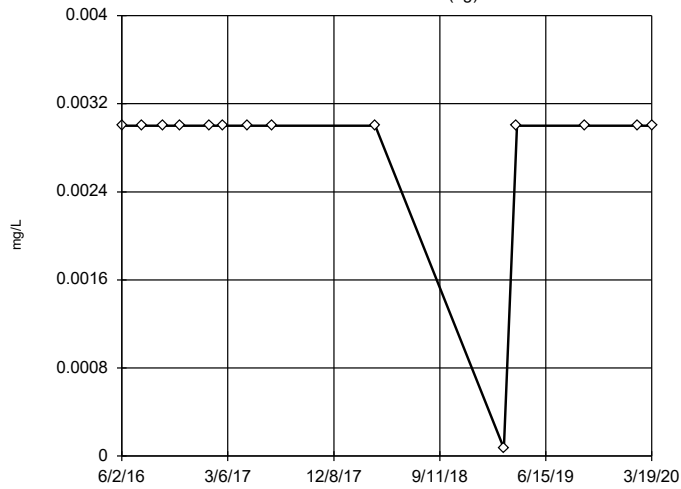
Tukey's Outlier Screening
YGWA-21 (bg)



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

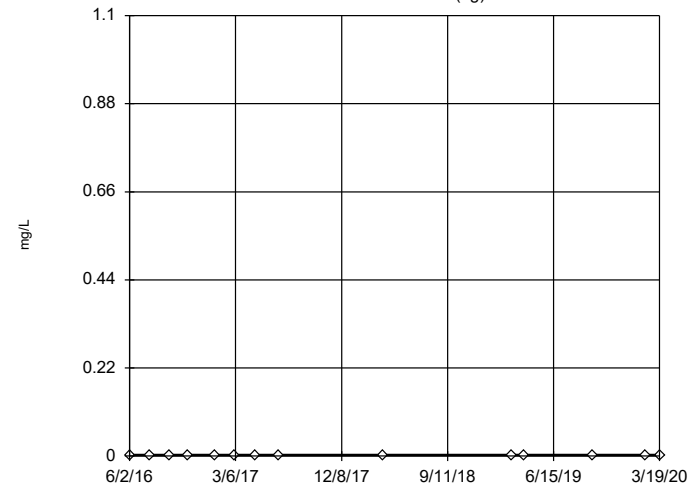
Tukey's Outlier Screening
YGWA-30I (bg)



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

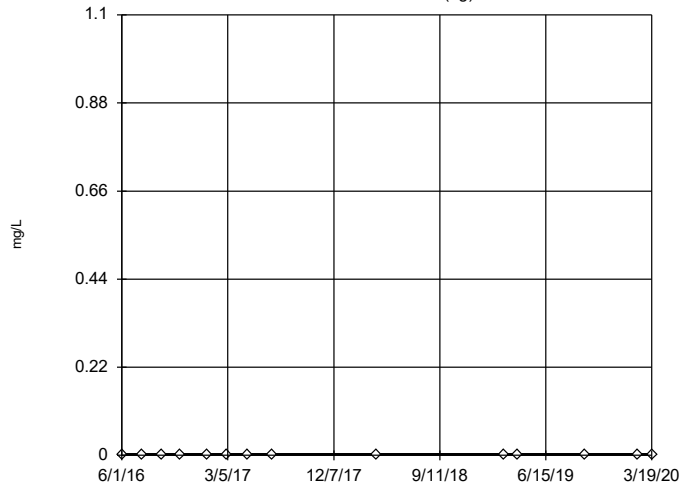
Tukey's Outlier Screening
YGWA-3D (bg)



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

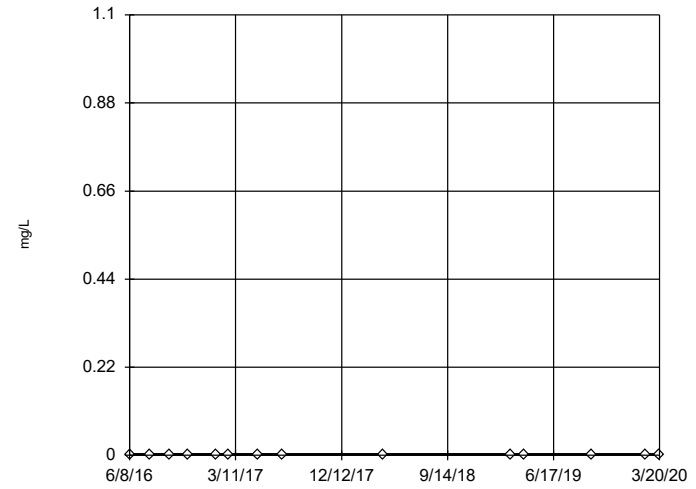
Tukey's Outlier Screening
YGWA-3I (bg)



n = 14
No outliers found. Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

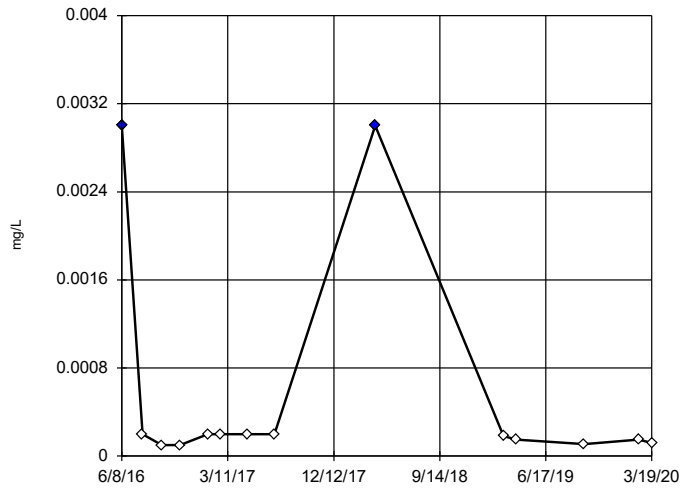
Tukey's Outlier Screening
YGWC-26I



n = 14
No outliers found. Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

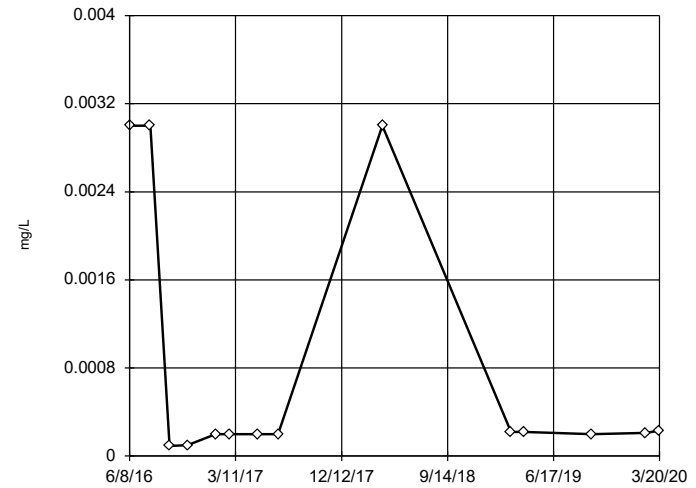
Tukey's Outlier Screening
YGWC-26S



n = 14
Outliers are drawn as solid. Tukey's method selected by user.
High cutoff = 0.000455, low cutoff = -0.00014, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

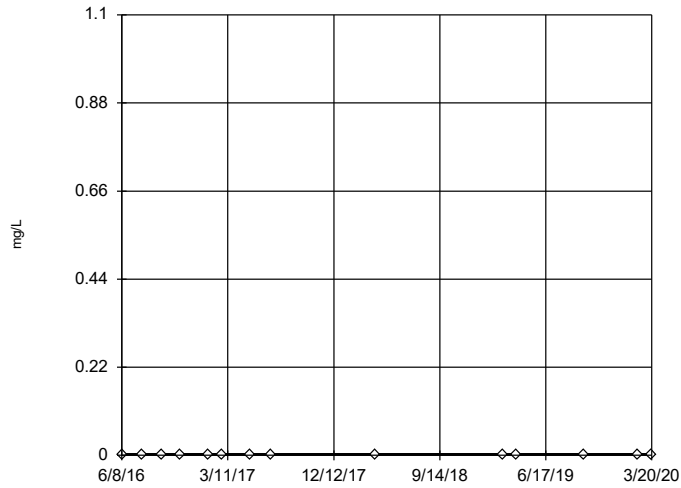
Tukey's Outlier Screening
YGWC-27I



n = 14
No outliers found. Tukey's method selected by user.
High cutoff = 0.00586, low cutoff = -0.00405, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

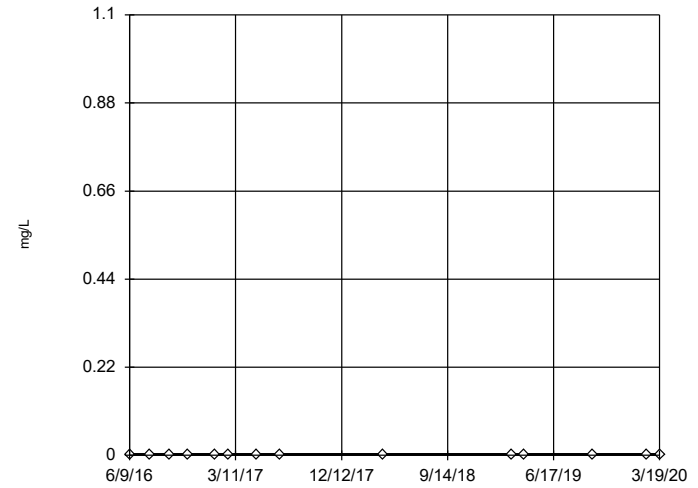
Tukey's Outlier Screening YGWC-27S



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

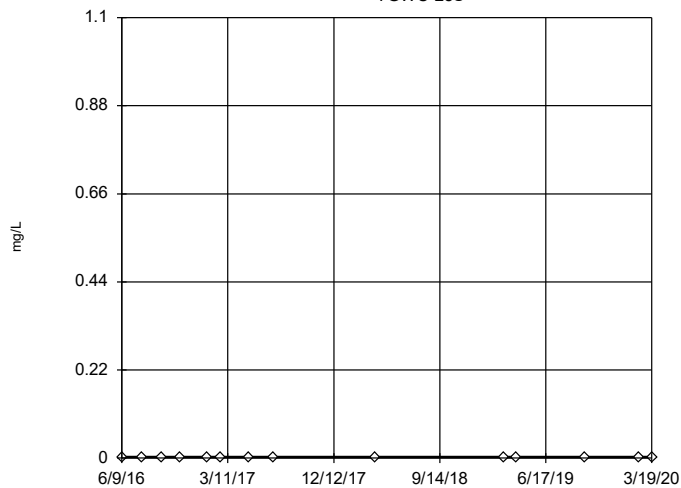
Tukey's Outlier Screening YGWC-28I



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

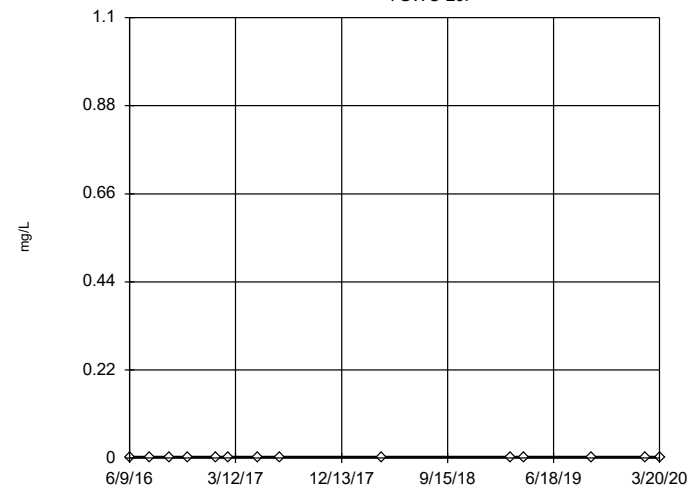
Tukey's Outlier Screening YGWC-28S



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

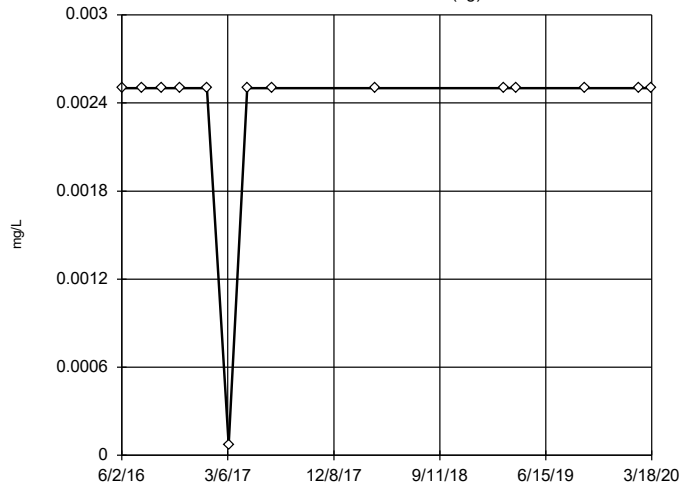
Tukey's Outlier Screening YGWC-29I



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

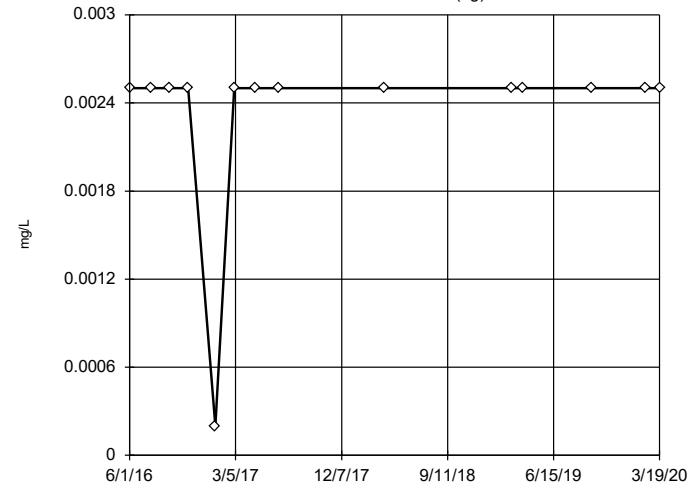
Tukey's Outlier Screening YGWA-14S (bg)



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

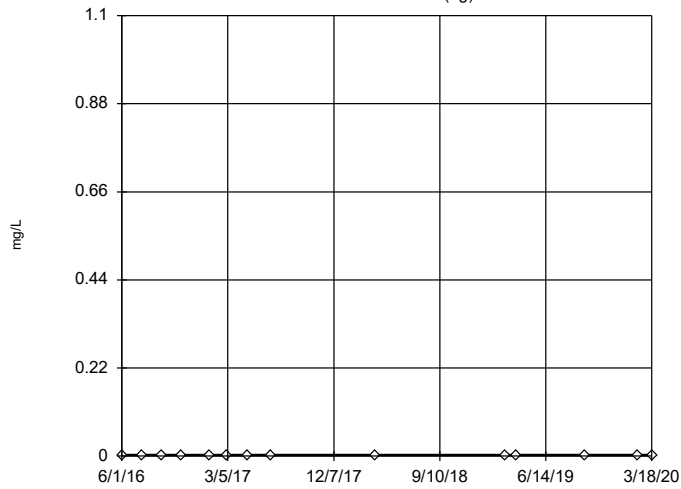
Tukey's Outlier Screening YGWA-1D (bg)



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

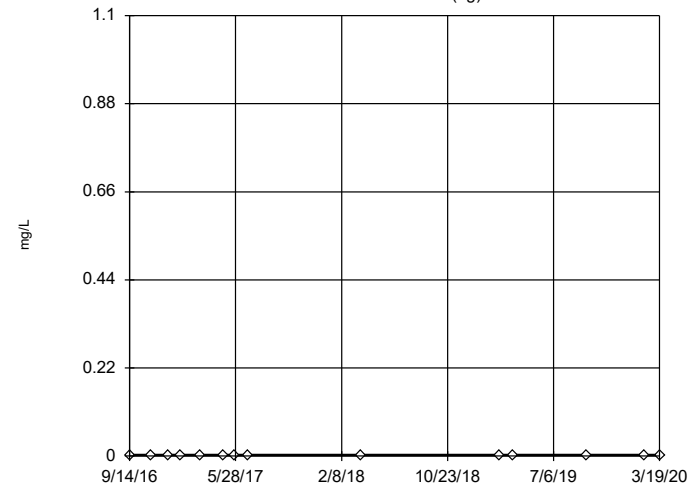
Tukey's Outlier Screening YGWA-11 (bg)



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

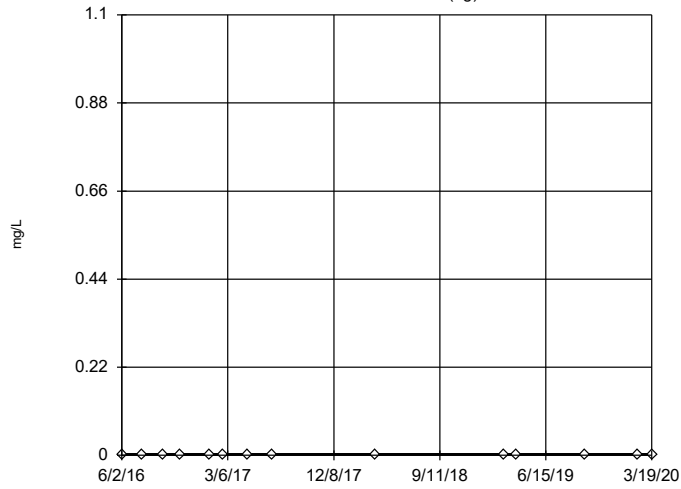
Tukey's Outlier Screening YGWA-2I (bg)



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

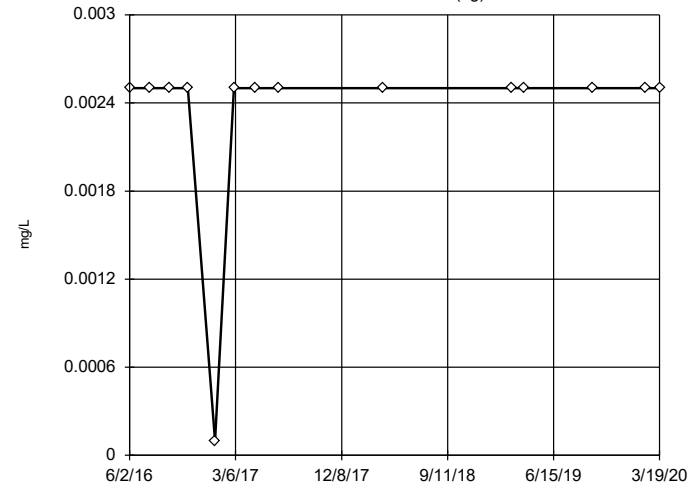
Tukey's Outlier Screening YGWA-30I (bg)



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

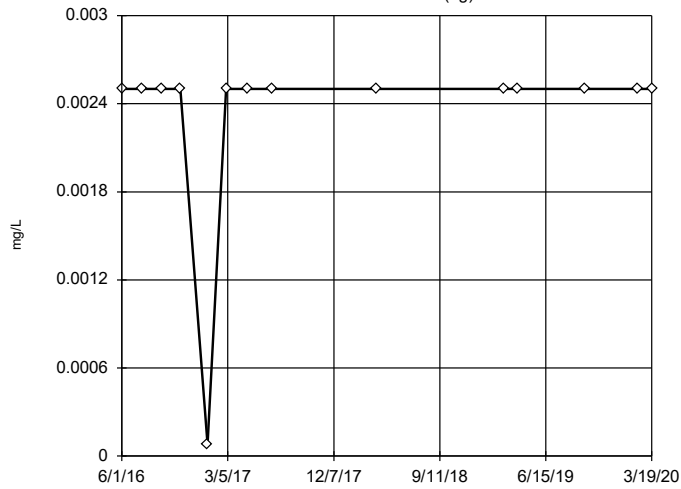
Tukey's Outlier Screening YGWA-3D (bg)



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

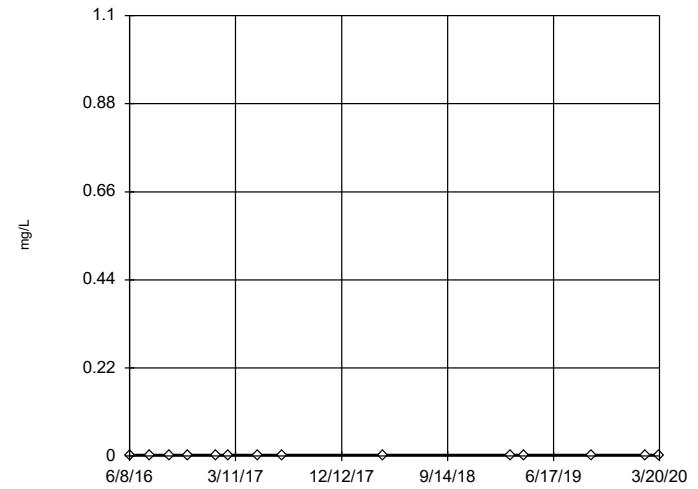
Tukey's Outlier Screening YGWA-3I (bg)



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

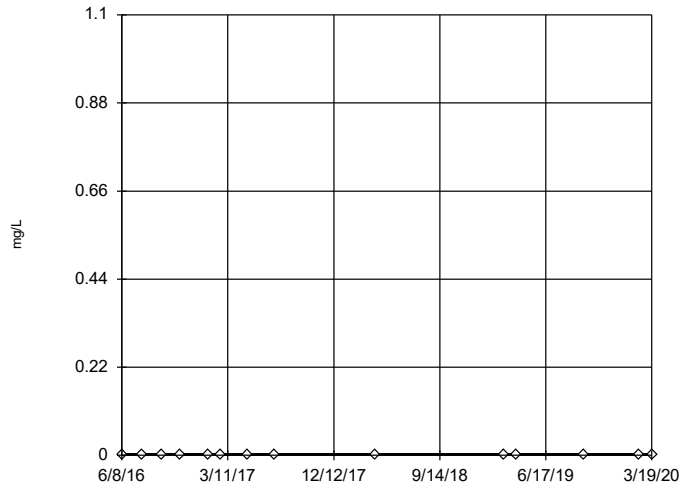
Tukey's Outlier Screening YGWC-26I



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

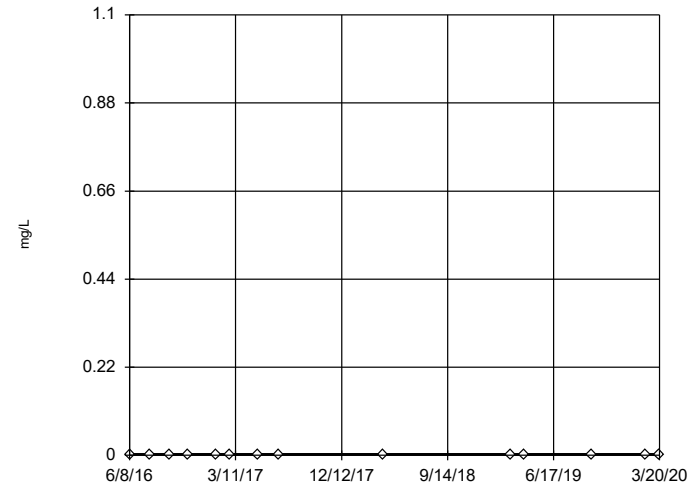
Tukey's Outlier Screening
YGWC-26S



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

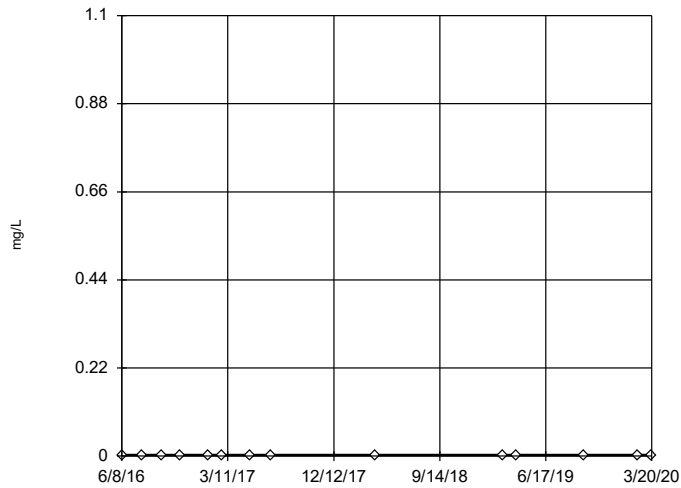
Tukey's Outlier Screening
YGWC-27I



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

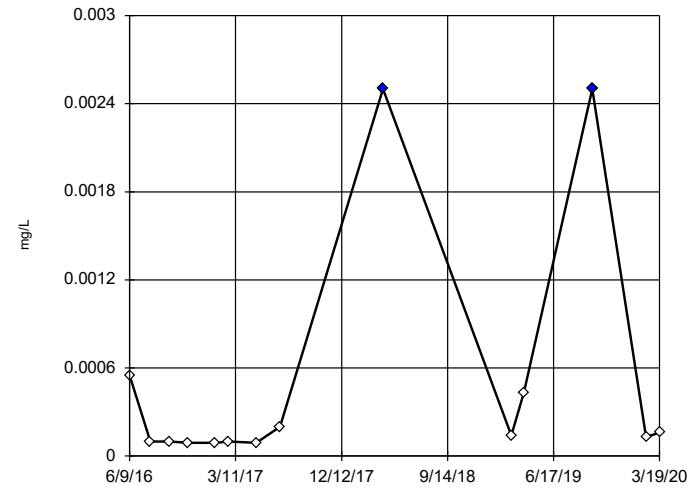
Tukey's Outlier Screening
YGWC-27S



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

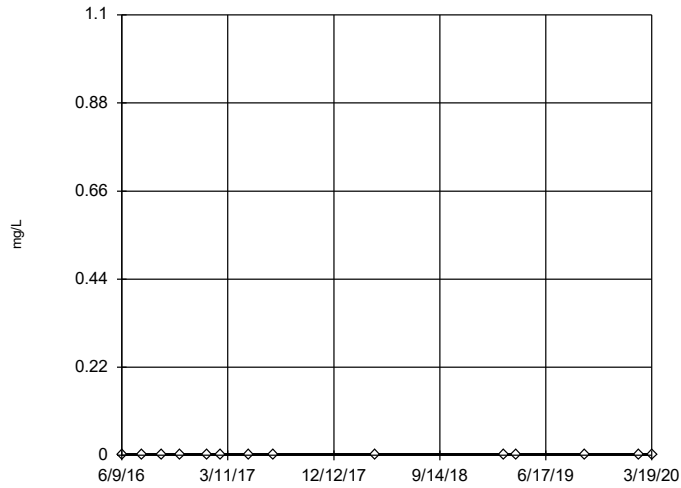
Tukey's Outlier Screening
YGWC-28I



n = 14
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.001675,
low cutoff = -0.00109,
based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

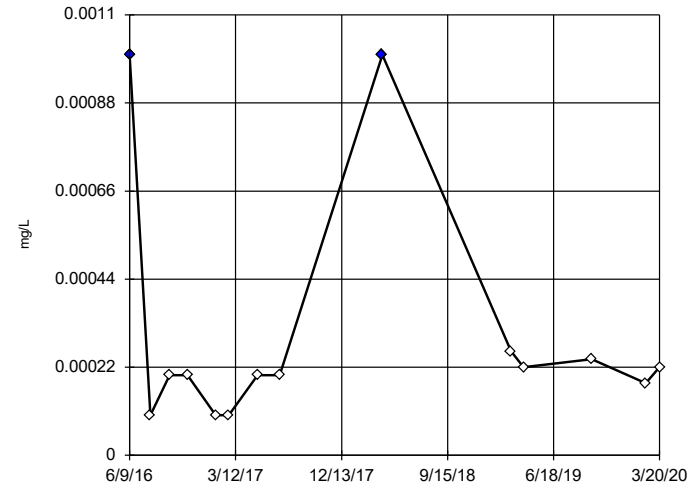
Tukey's Outlier Screening
YGWC-28S



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

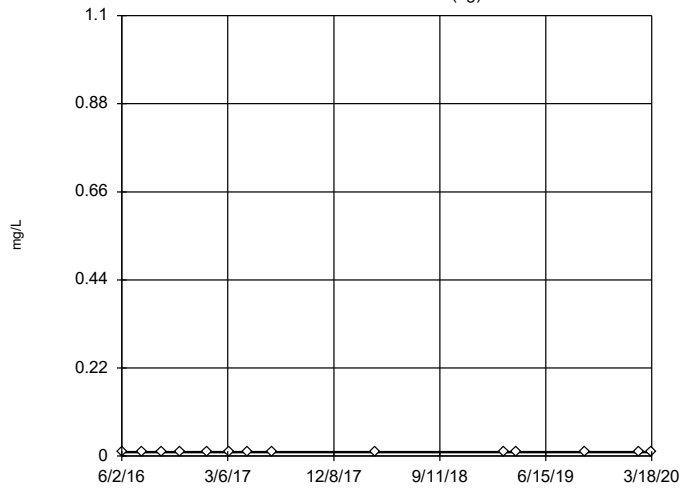
Tukey's Outlier Screening
YGWC-29I



n = 14
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.00058, low cutoff = -0.00019, based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

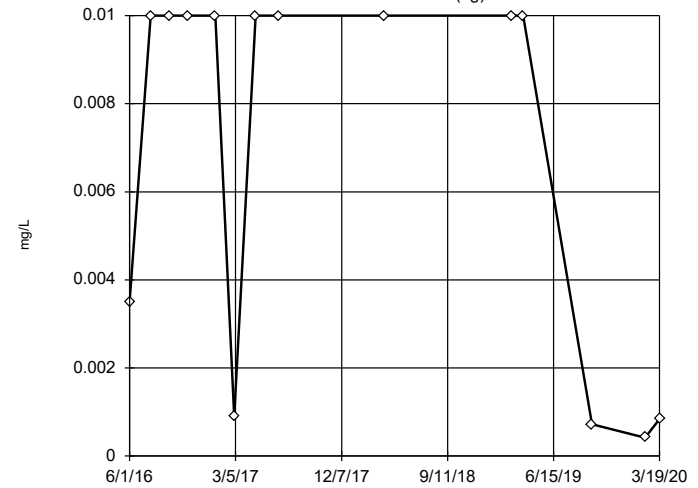
Tukey's Outlier Screening
YGWA-14S (bg)



n = 14
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening
YGWA-1D (bg)

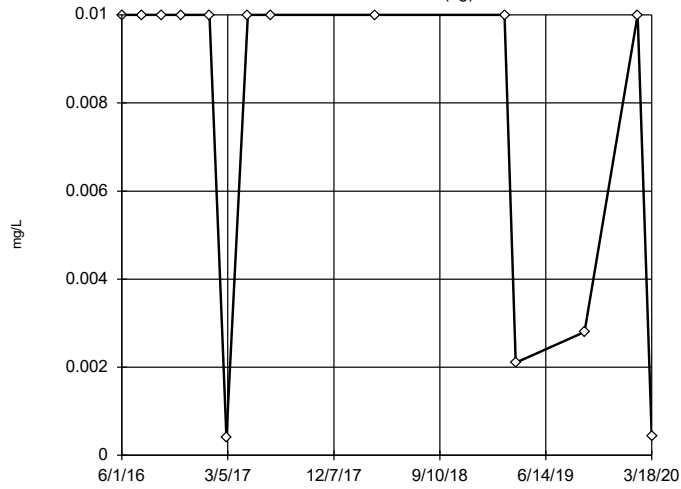


n = 14
No outliers found.
Tukey's method selected by user.
High cutoff = 0.03739, low cutoff = -0.02652, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-11 (bg)

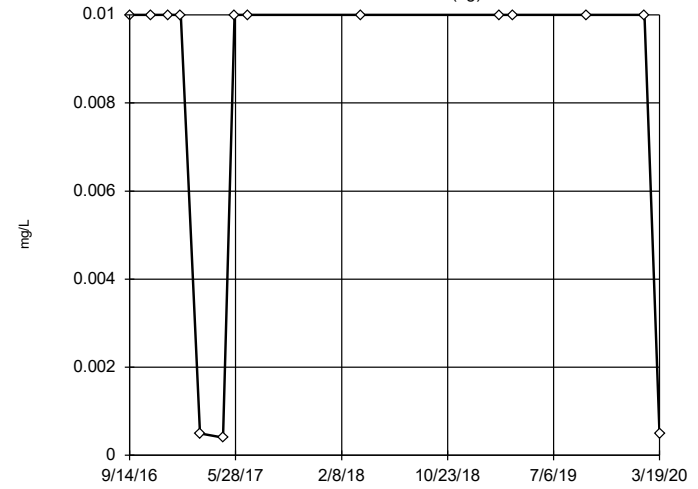


n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.03265,
 low cutoff = -0.0202,
 based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-21 (bg)

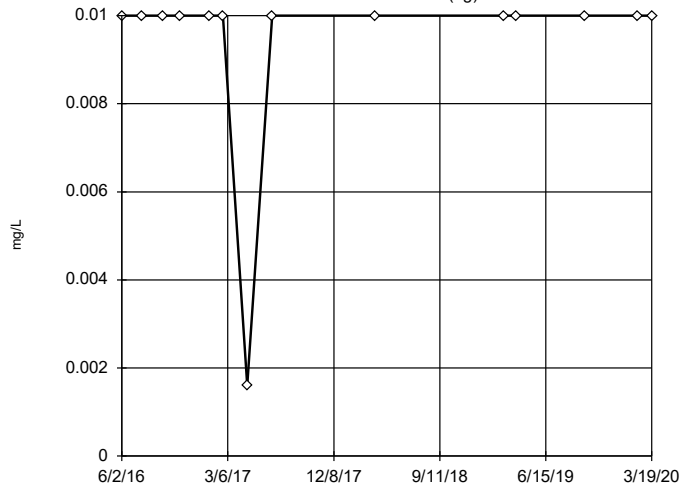


n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.02425,
 low cutoff = -0.009,
 based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-30I (bg)

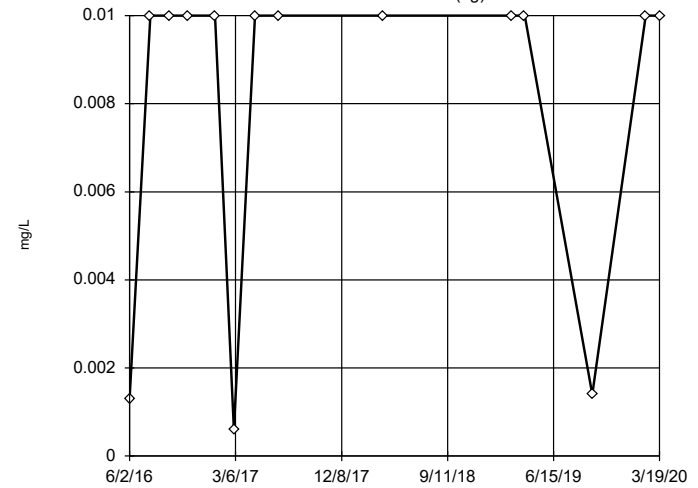


n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated,
 because the lower and upper
 quartiles are equal.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3D (bg)

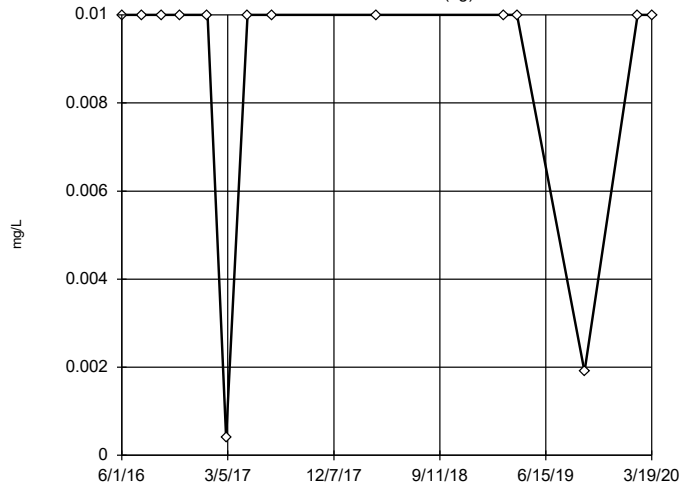


n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0229,
 low cutoff = -0.0072,
 based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3I (bg)

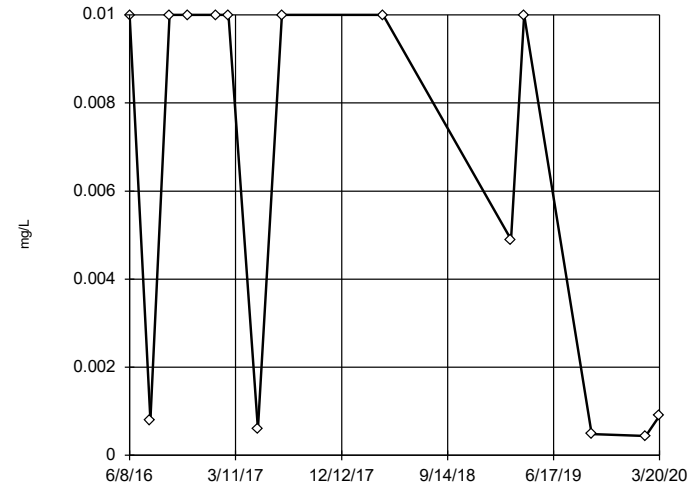


n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-26I

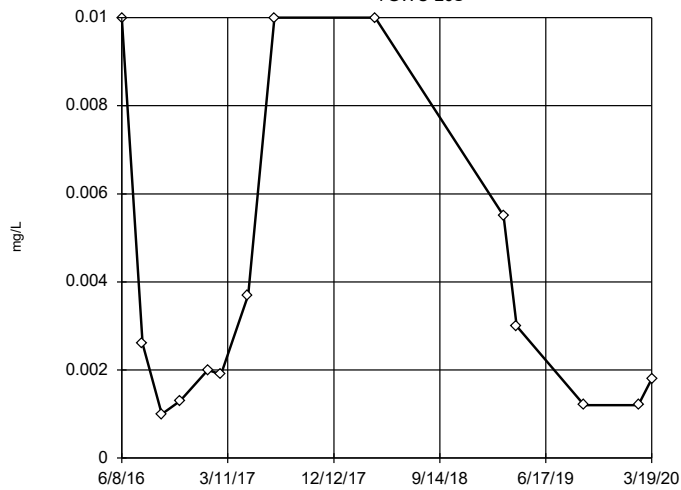


n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0379,
 low cutoff = -0.0272,
 based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-26S

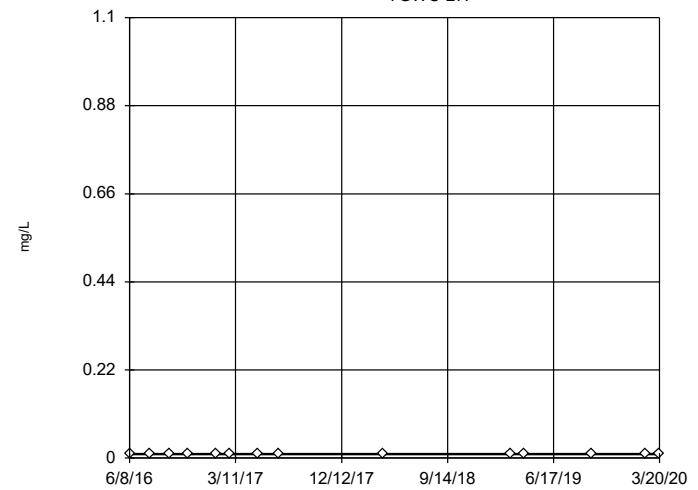


n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.02725,
 low cutoff = -0.01825,
 based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

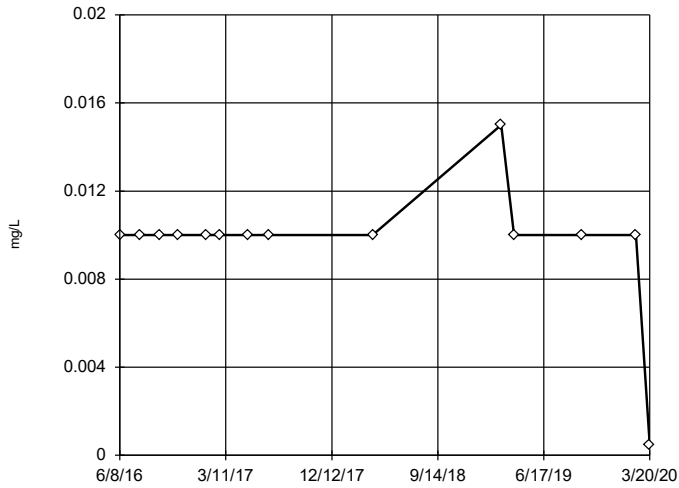
YGWC-27I



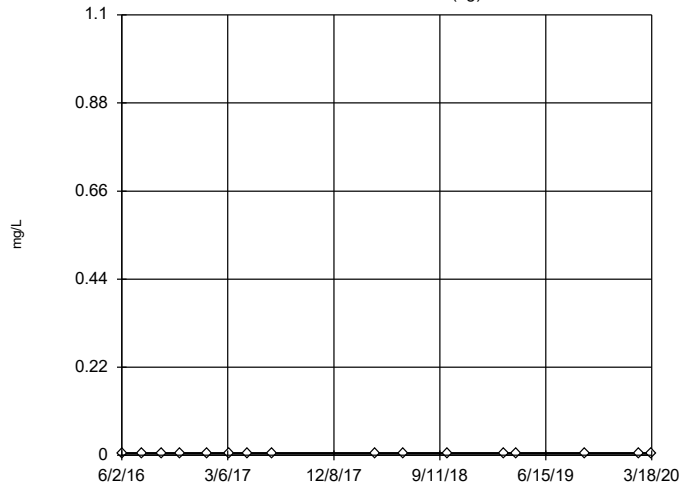
n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWC-27S



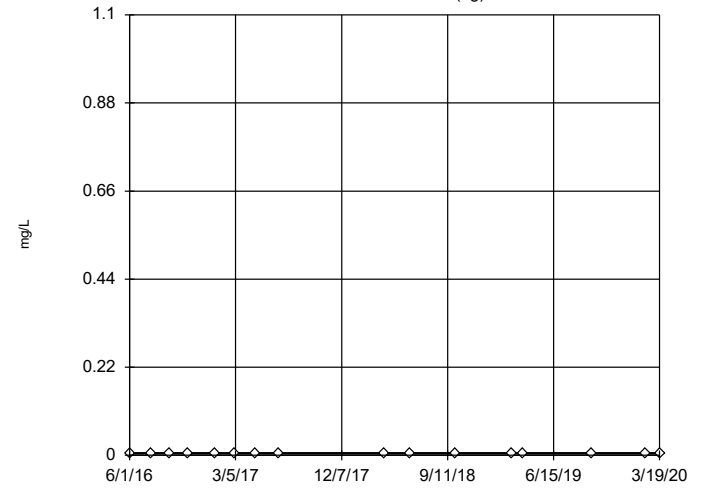
Tukey's Outlier Screening YGWA-14S (bg)



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

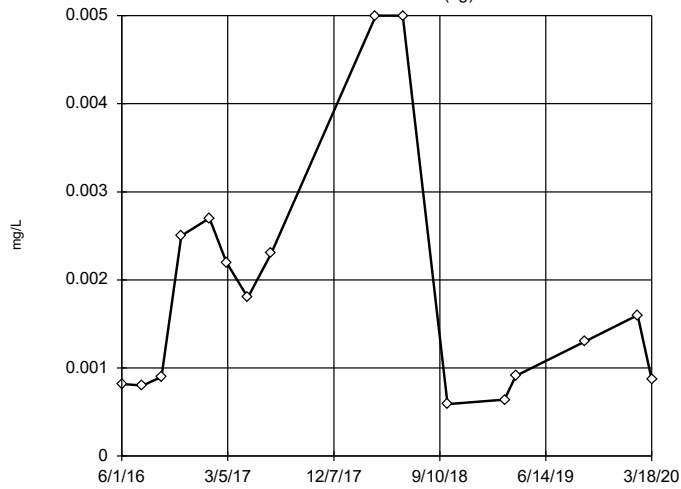
Tukey's Outlier Screening YGWA-1D (bg)



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

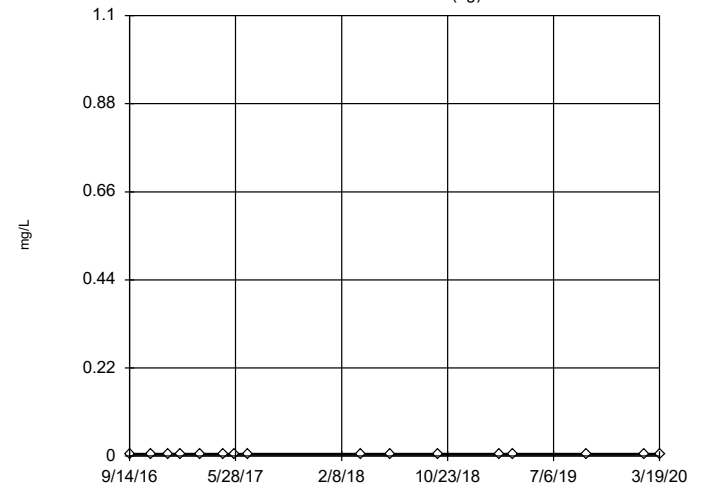
Tukey's Outlier Screening YGWA-11 (bg)



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.007065,
 low cutoff = -0.00382,
 based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-2I (bg)



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

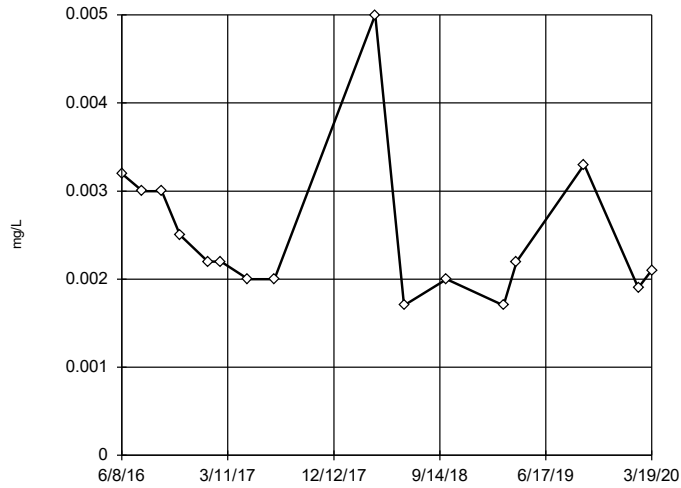
Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-30I (bg)



Tukey's Outlier Screening

YGWC-26S

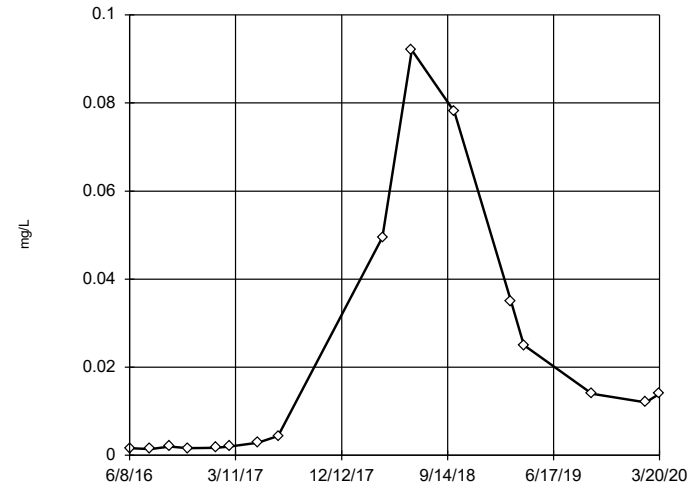


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.006, low cutoff = -0.001, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-27I

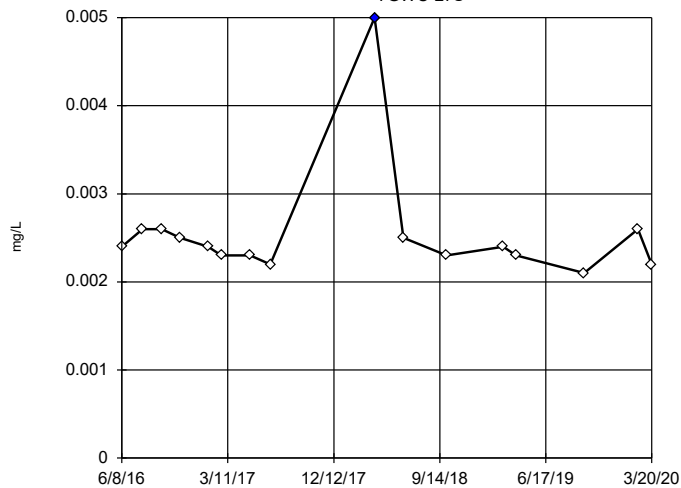


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.1145, low cutoff = -0.0826, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-27S

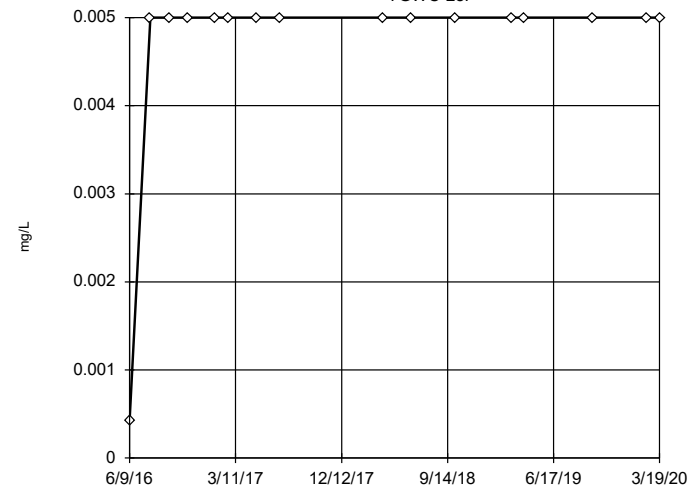


n = 16
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.0033, low cutoff = 0.00155, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

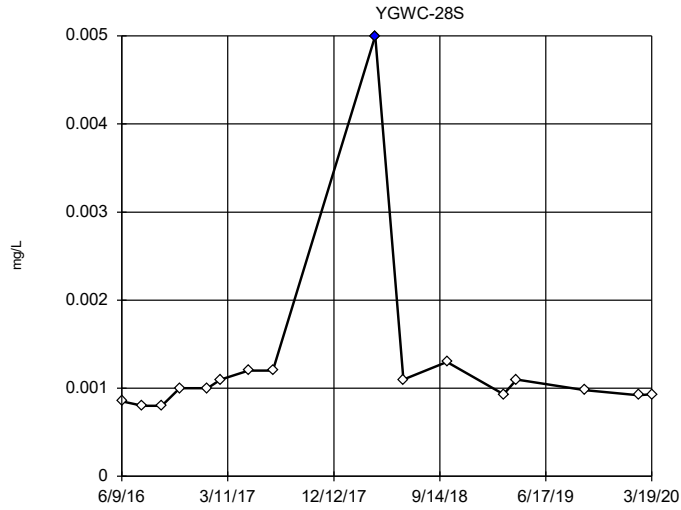
YGWC-28I



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

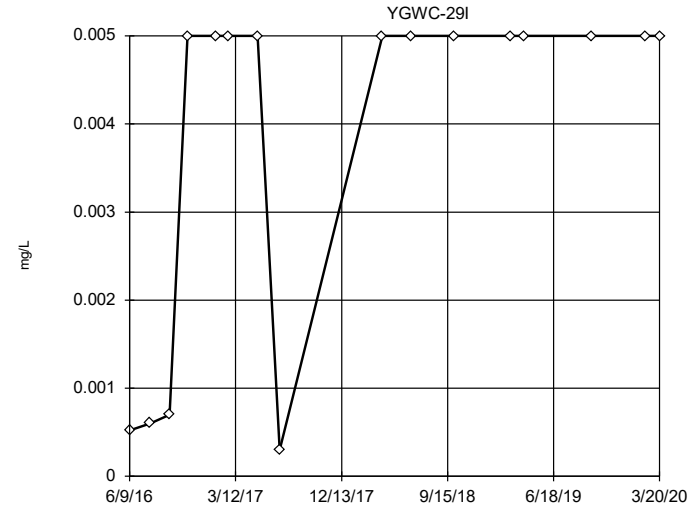
Tukey's Outlier Screening



n = 16
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.001825,
 low cutoff = 0.00025,
 based on IQR multiplier
 of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

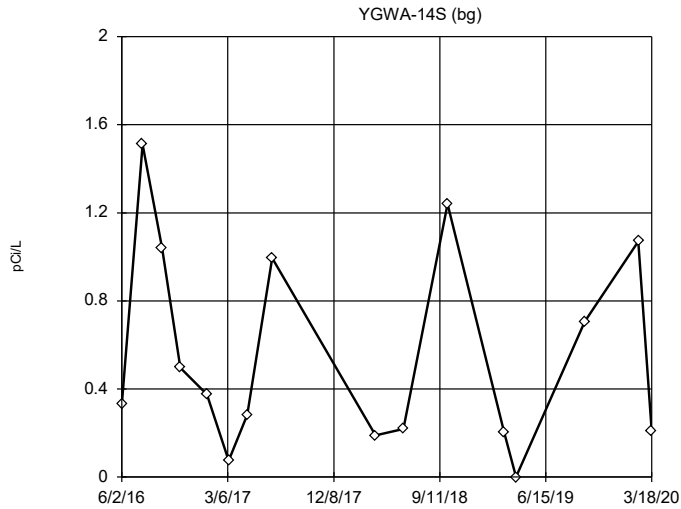
Tukey's Outlier Screening



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01145,
 low cutoff = -0.0036,
 based on IQR multiplier
 of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

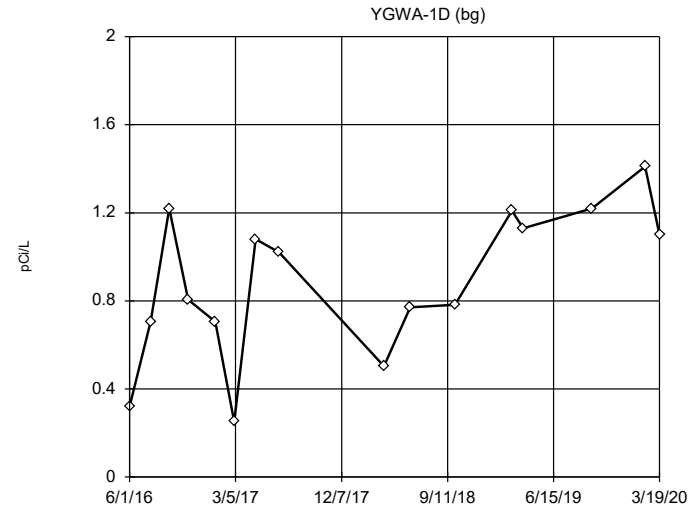
Tukey's Outlier Screening



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 3.455, low
 cutoff = -2.233, based
 on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

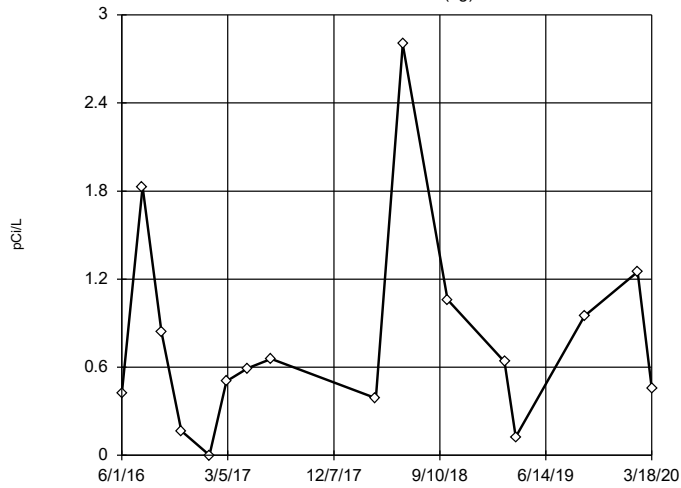
Tukey's Outlier Screening



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 2.562, low
 cutoff = -0.686, based
 on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

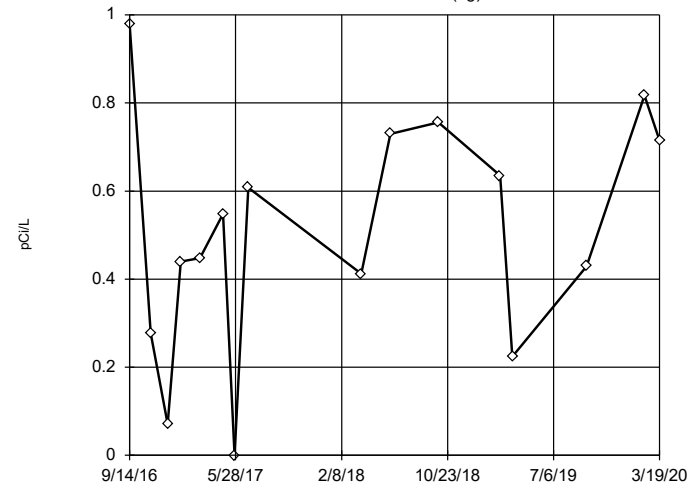
Tukey's Outlier Screening
YGWA-11 (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 2.803, low cutoff = -1.394, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

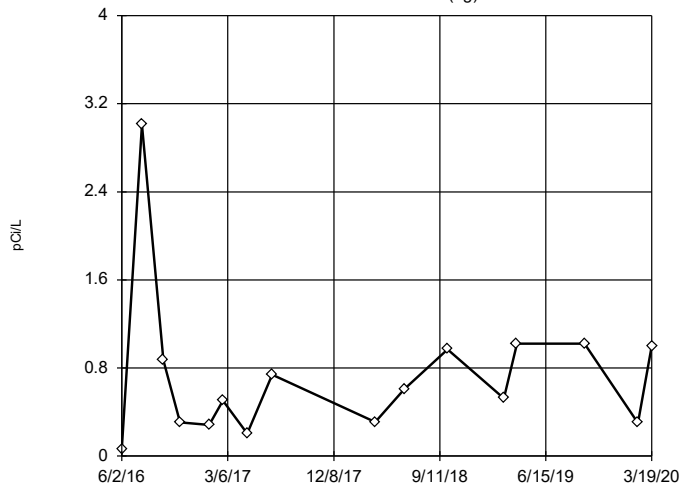
Tukey's Outlier Screening
YGWA-21 (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 1.857, low cutoff = -0.7895, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

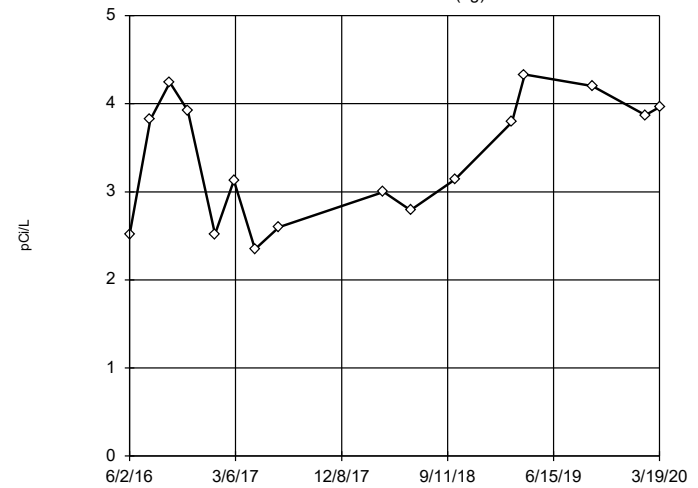
Tukey's Outlier Screening
YGWA-30I (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 3.028, low cutoff = -1.739, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

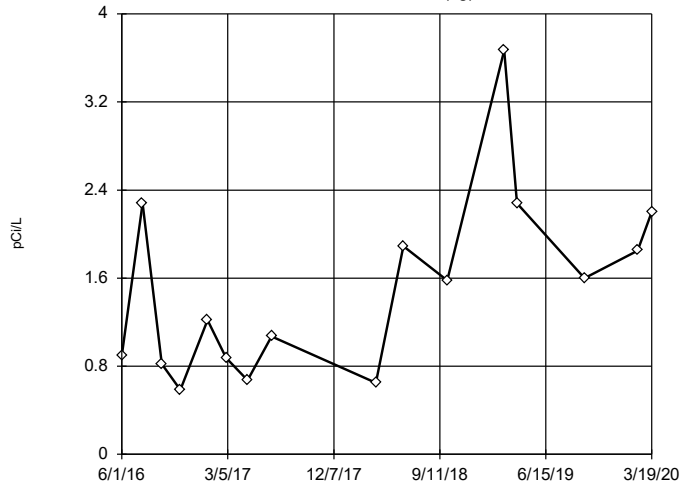
Tukey's Outlier Screening
YGWA-3D (bg)



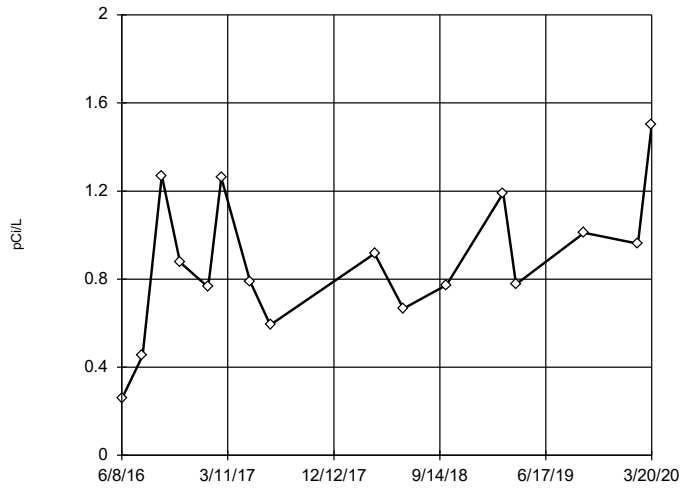
n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 7.675, low cutoff = -1.04, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening
YGWA-3I (bg)



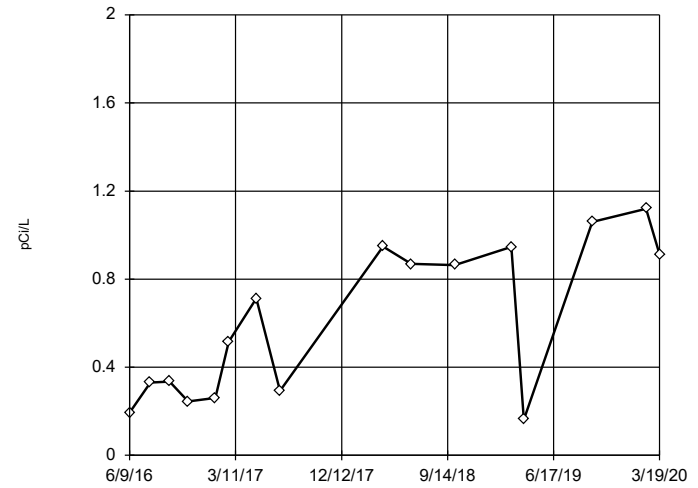
Tukey's Outlier Screening YGWC-27S



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 2.255, low cutoff = -0.44, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

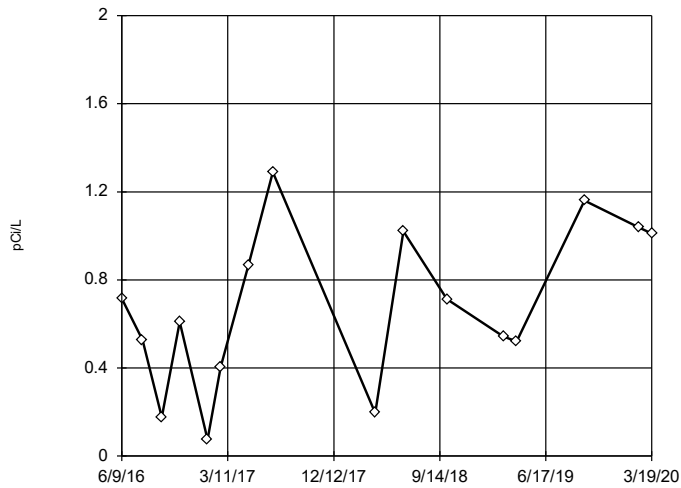
Tukey's Outlier Screening YGWC-28I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 2.891, low cutoff = -1.684, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

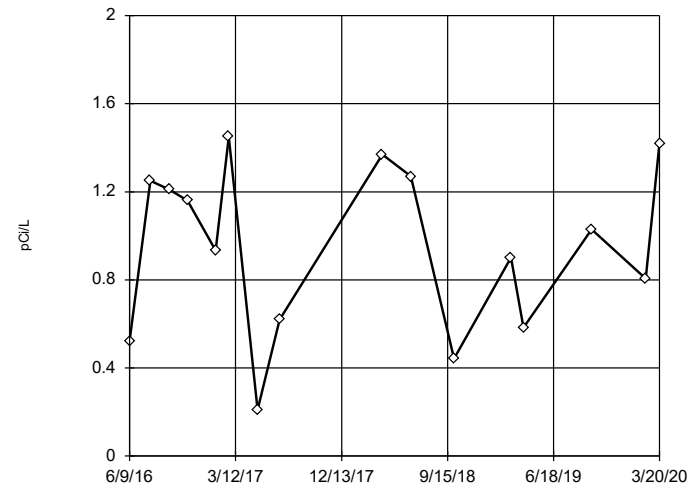
Tukey's Outlier Screening YGWC-28S



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 2.673, low cutoff = -1.195, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

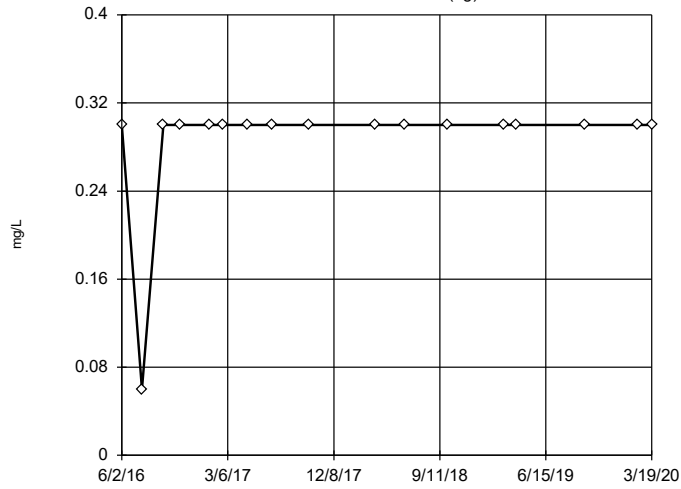
Tukey's Outlier Screening YGWC-29I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 3.234, low cutoff = -1.372, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

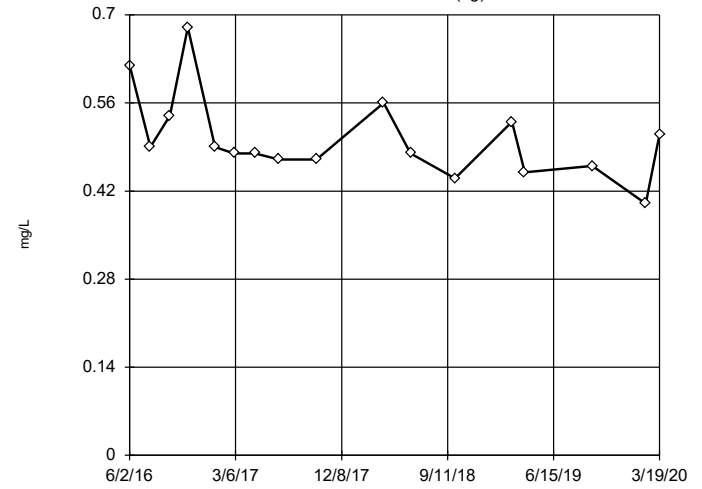
Tukey's Outlier Screening
YGWA-30I (bg)



n = 17
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

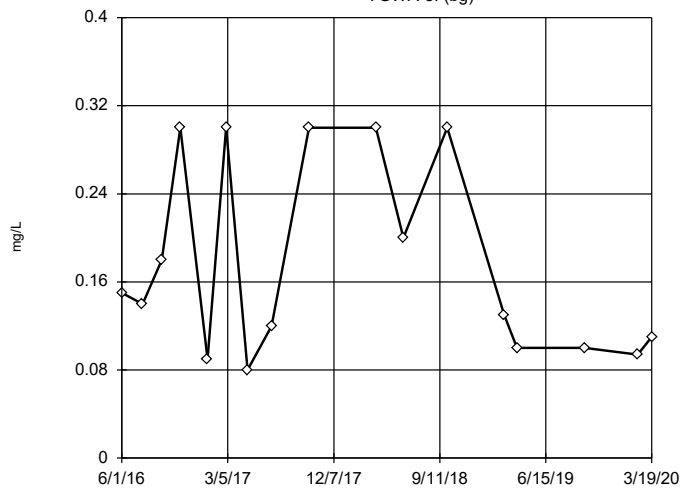
Tukey's Outlier Screening
YGWA-3D (bg)



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.745, low cutoff = 0.255, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

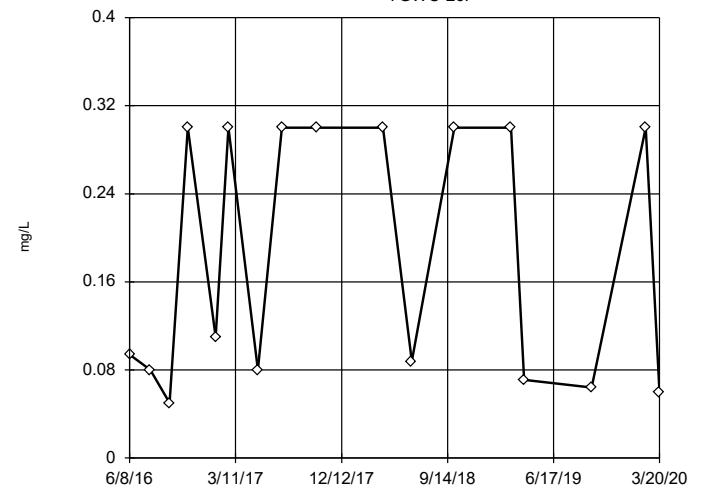
Tukey's Outlier Screening
YGWA-3I (bg)



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.9, low cutoff = -0.5, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

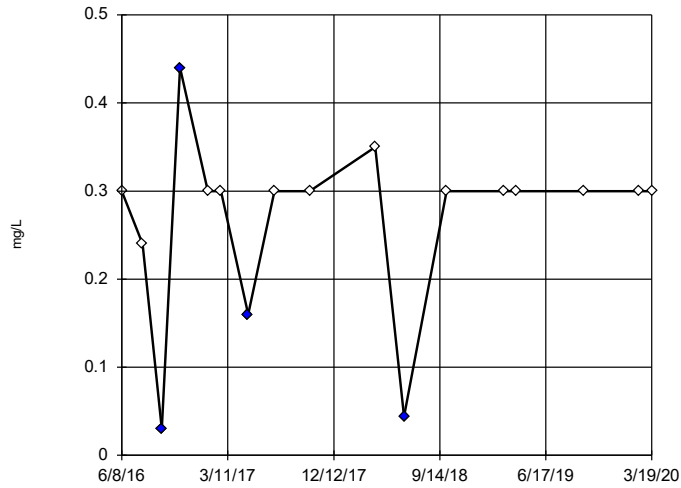
Tukey's Outlier Screening
YGWC-26I



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.9735, low cutoff = -0.598, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

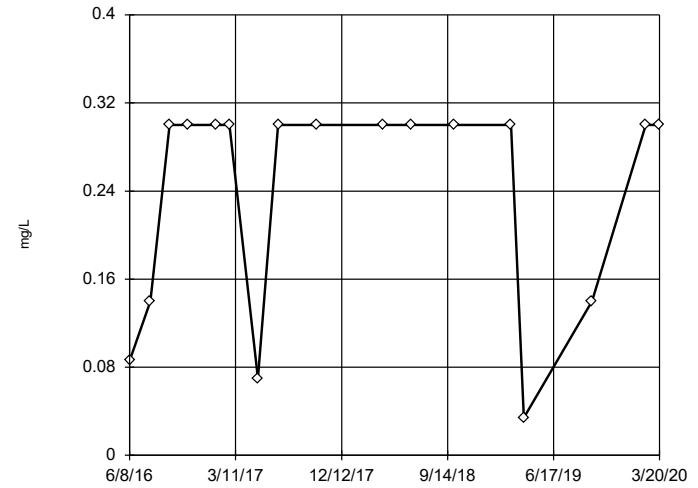
Tukey's Outlier Screening
YGWC-26S



n = 17
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.39, low cutoff = 0.18, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

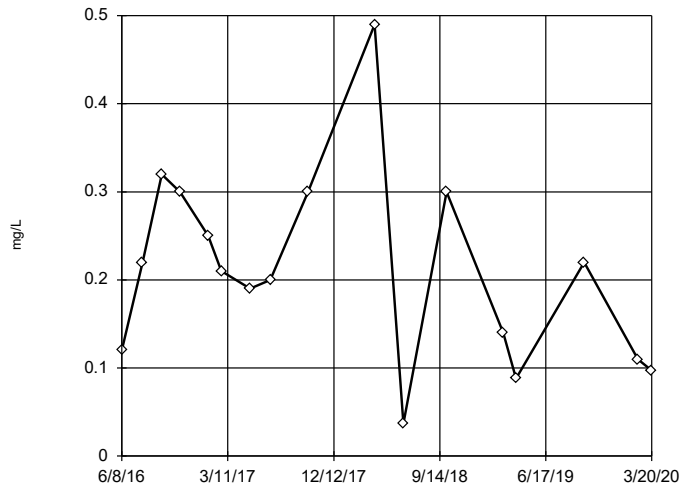
Tukey's Outlier Screening
YGWC-27I



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.78, low cutoff = -0.34, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

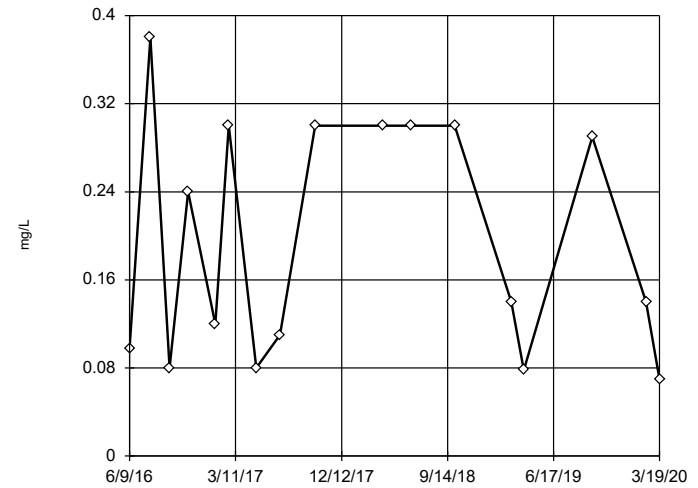
Tukey's Outlier Screening
YGWC-27S



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.855, low cutoff = -0.44, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

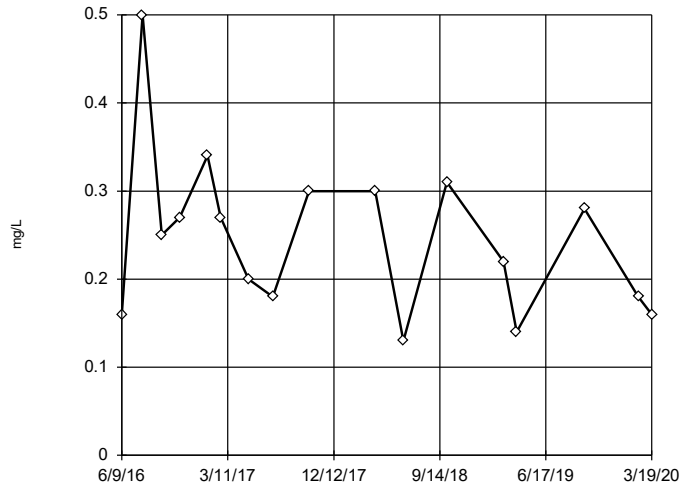
Tukey's Outlier Screening
YGWC-28I



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.933, low cutoff = -0.544, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

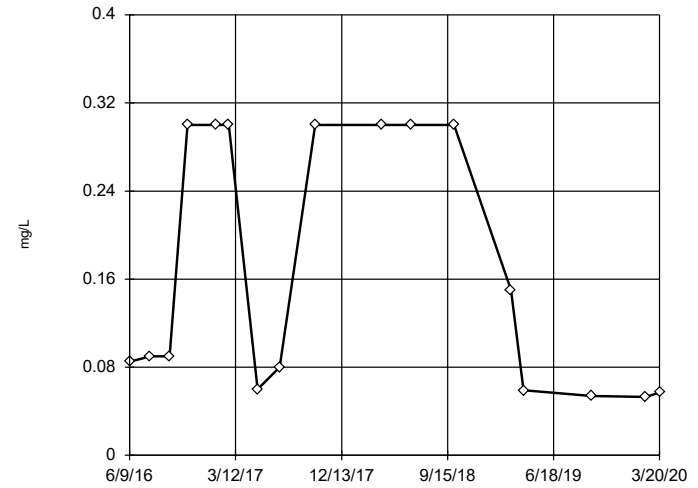
Tukey's Outlier Screening
YGWC-28S



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.69, low cutoff = -0.22, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

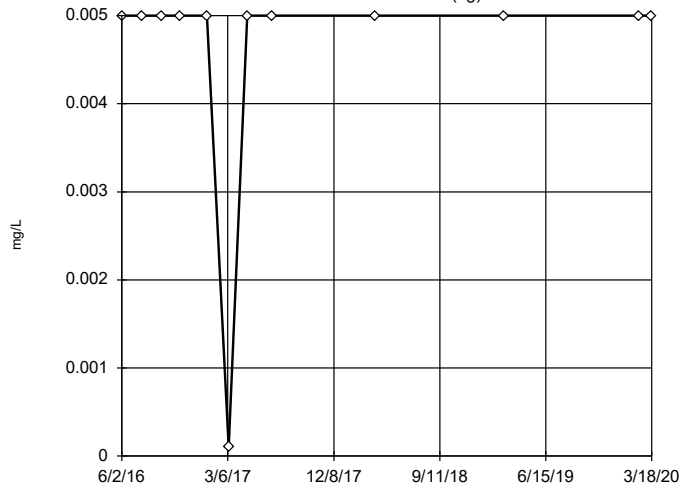
Tukey's Outlier Screening
YGWC-29I



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 1.022, low cutoff = -0.662, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

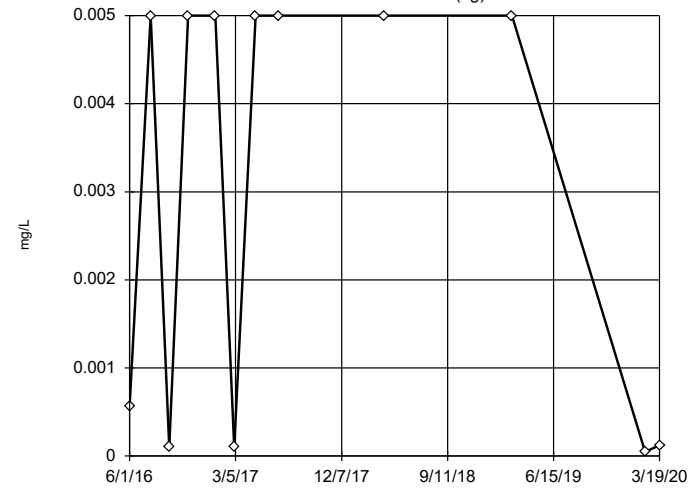
Tukey's Outlier Screening
YGWA-14S (bg)



n = 12
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

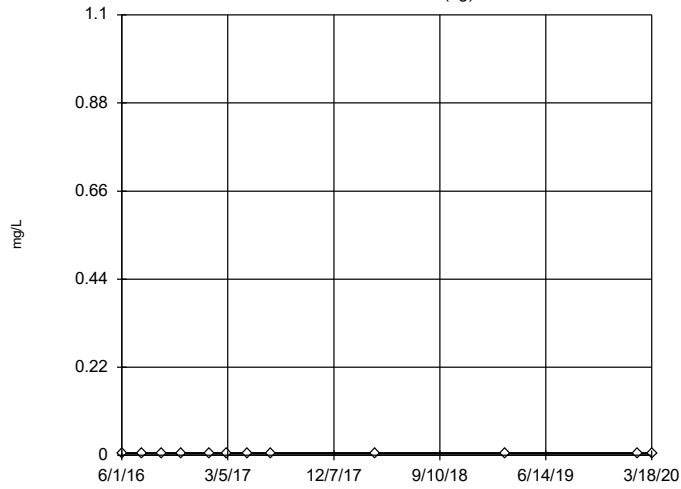
Tukey's Outlier Screening
YGWA-1D (bg)



n = 12
No outliers found.
Tukey's method selected by user.
High cutoff = 0.01967, low cutoff = -0.01456, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

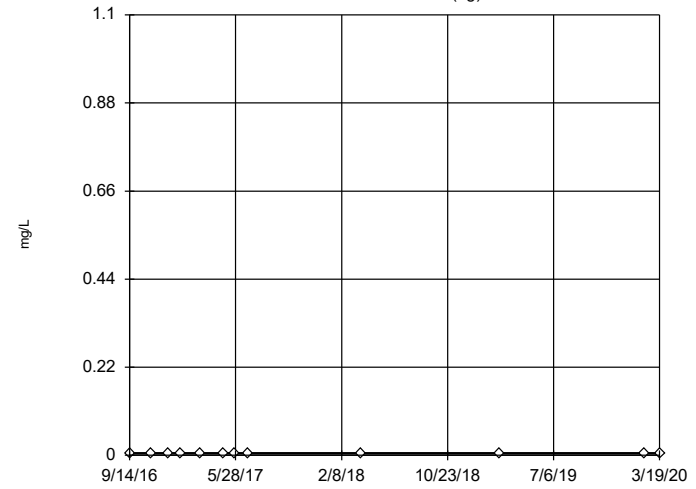
Tukey's Outlier Screening YGWA-11 (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

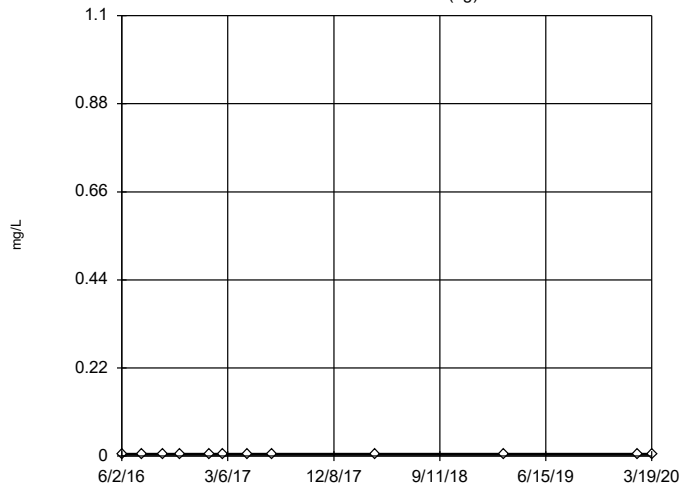
Tukey's Outlier Screening YGWA-21 (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

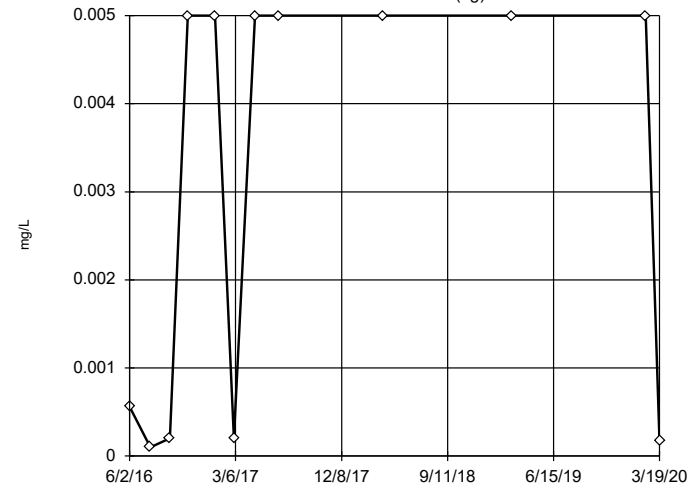
Tukey's Outlier Screening YGWA-30I (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

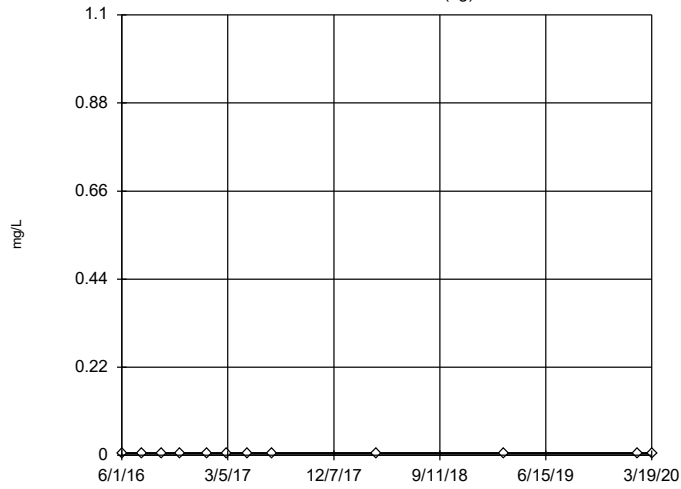
Tukey's Outlier Screening YGWA-3D (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0194,
 low cutoff = -0.0142,
 based on IQR multiplier of 3.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

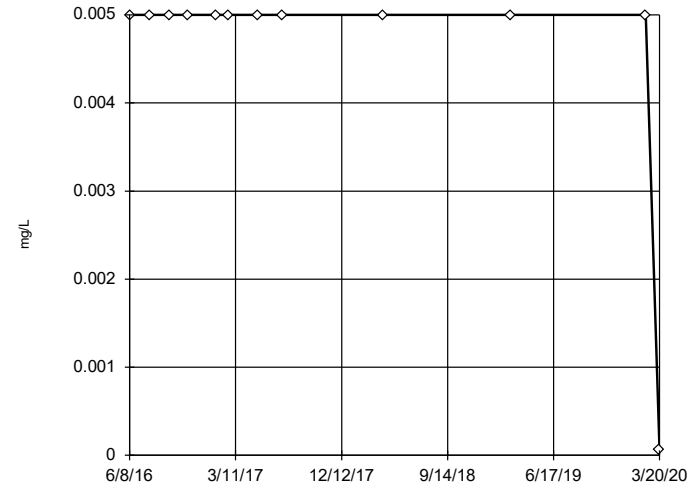
Tukey's Outlier Screening YGWA-3I (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

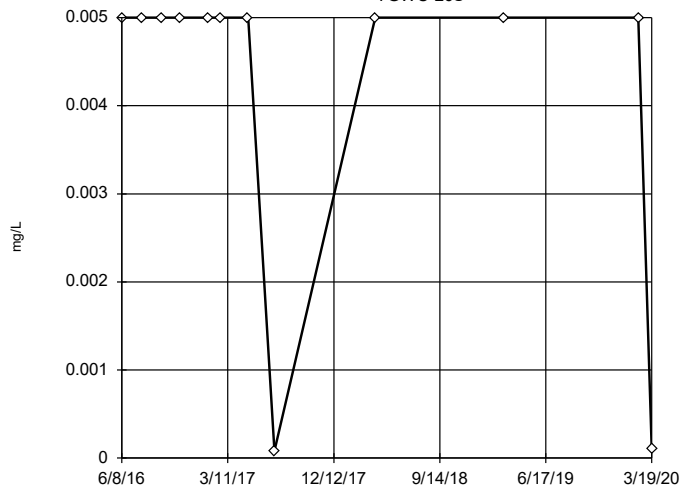
Tukey's Outlier Screening YGWC-26I



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

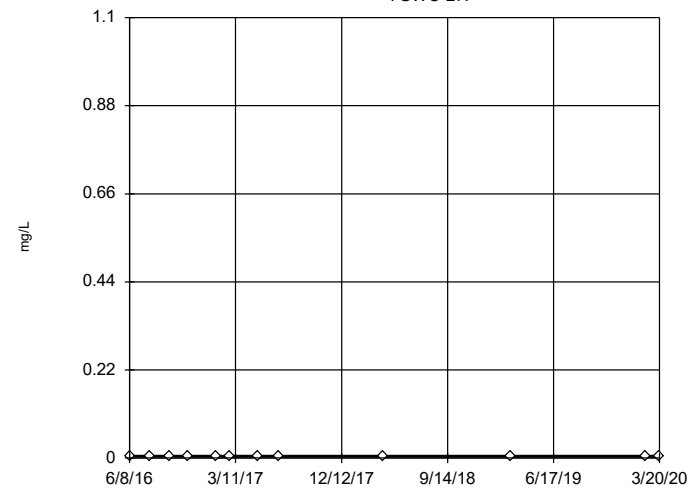
Tukey's Outlier Screening YGWC-26S



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWC-27I

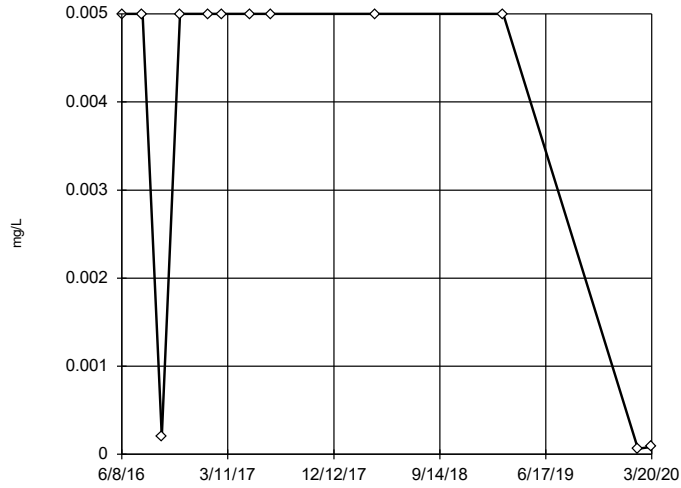


n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

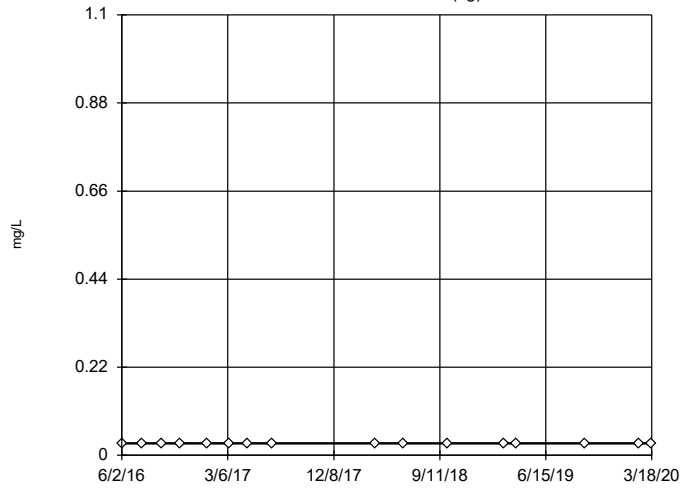
Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-27S



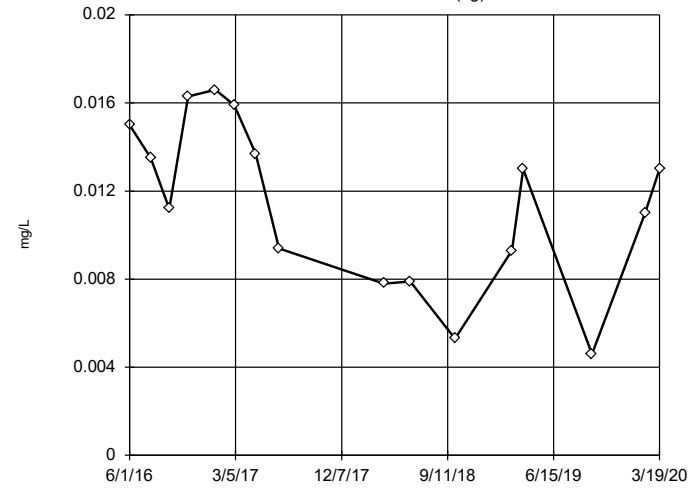
Tukey's Outlier Screening YGWA-14S (bg)



n = 16
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

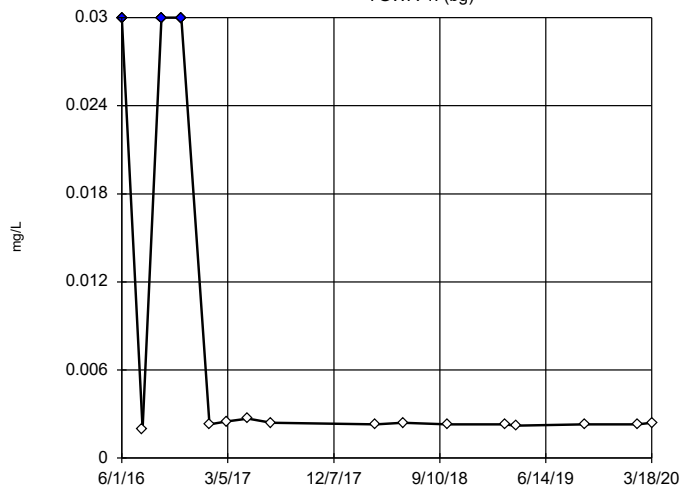
Tukey's Outlier Screening YGWA-1D (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0316, low cutoff = -0.00865, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

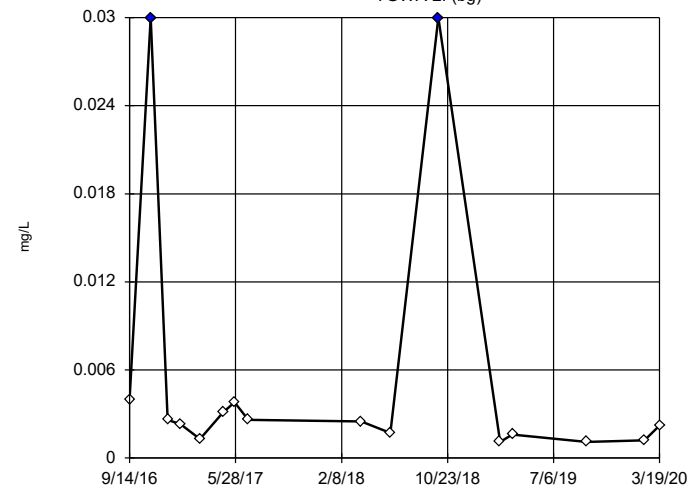
Tukey's Outlier Screening YGWA-11 (bg)



n = 16
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.0035, low cutoff = 0.0014, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-2I (bg)

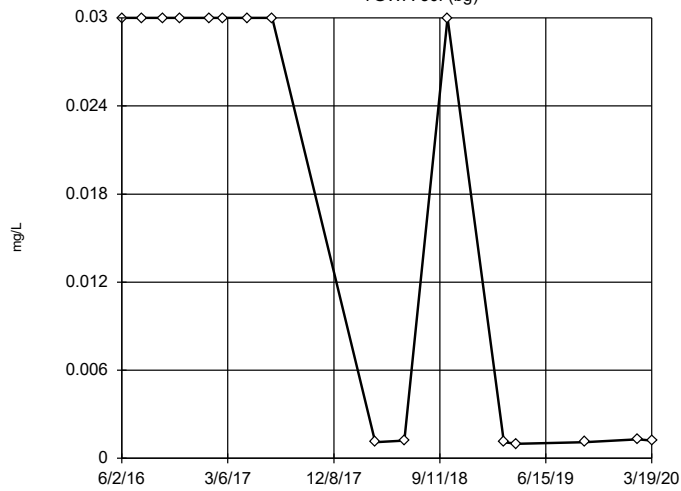


n = 16
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.00945, low cutoff = -0.00455, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-30I (bg)

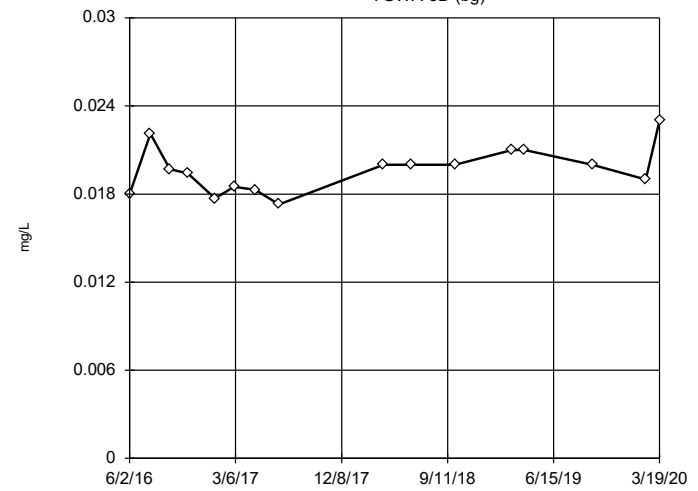


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.1165,
 low cutoff = -0.0854,
 based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3D (bg)

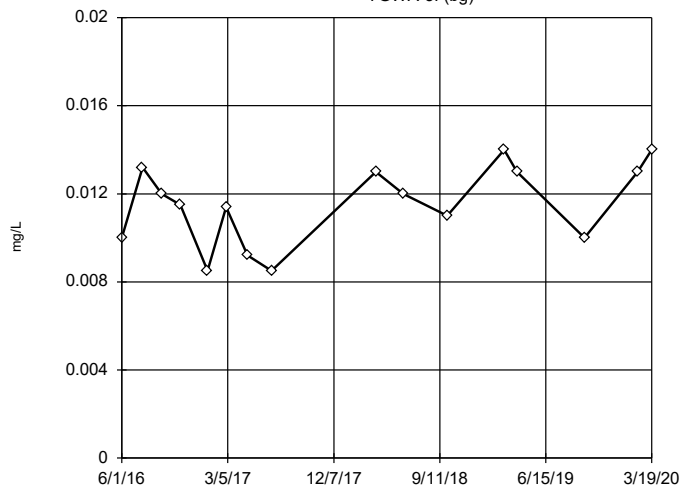


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0268,
 low cutoff = 0.0121, based
 on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3I (bg)

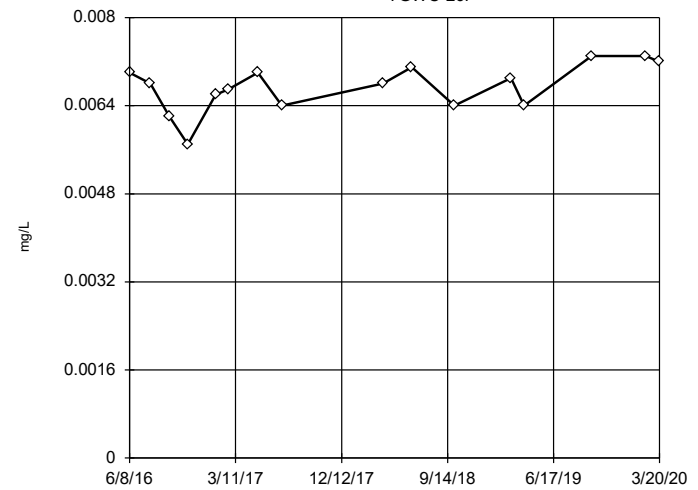


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.022, low
 cutoff = 0.001, based
 on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

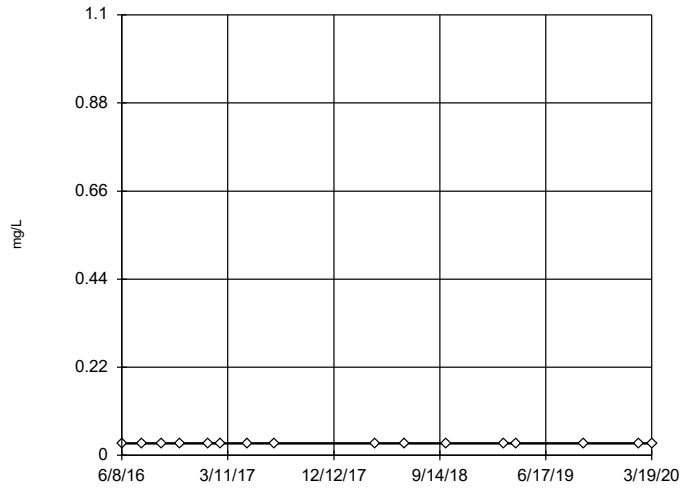
YGWC-26I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.009, low
 cutoff = 0.00445, based
 on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

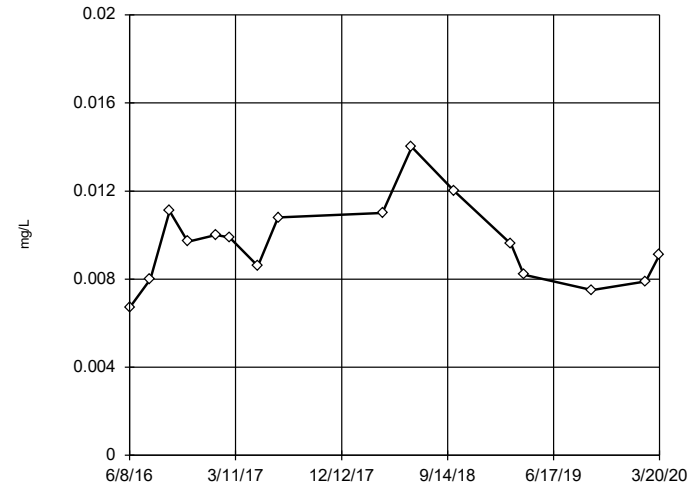
Tukey's Outlier Screening YGWC-26S



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

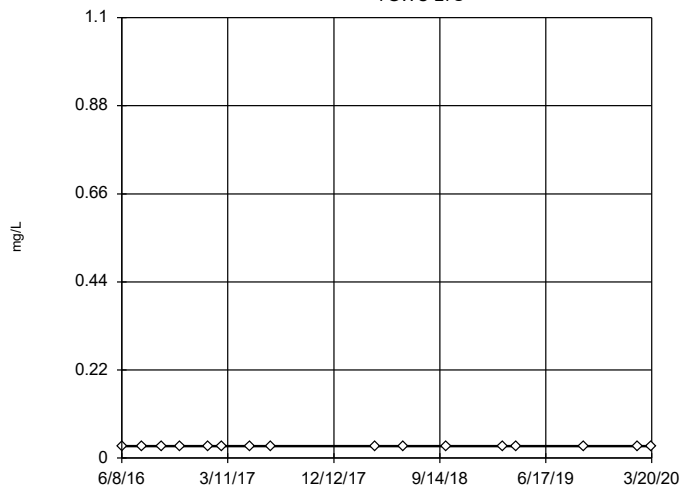
Tukey's Outlier Screening YGWC-27I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0193,
 low cutoff = -0.0003,
 based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

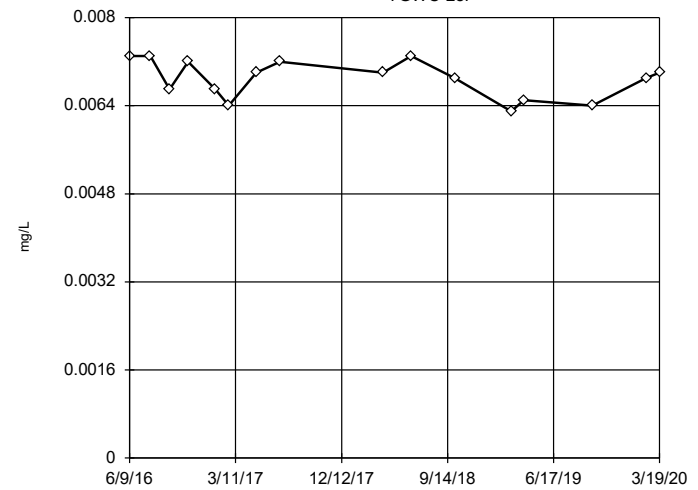
Tukey's Outlier Screening YGWC-27S



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

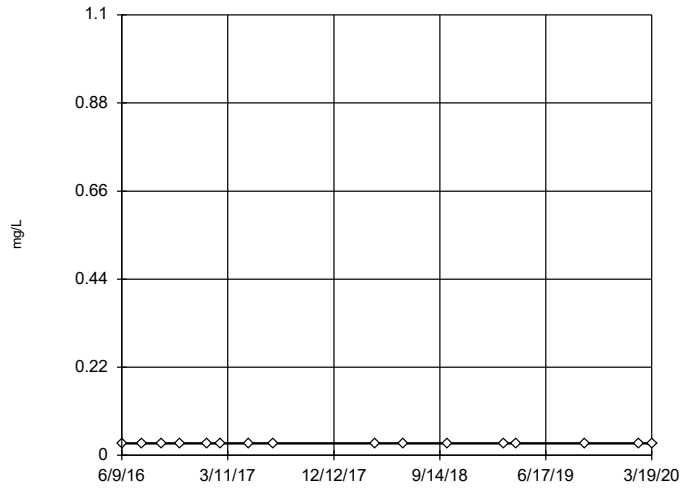
Tukey's Outlier Screening YGWC-28I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.009,
 low cutoff = 0.0048,
 based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

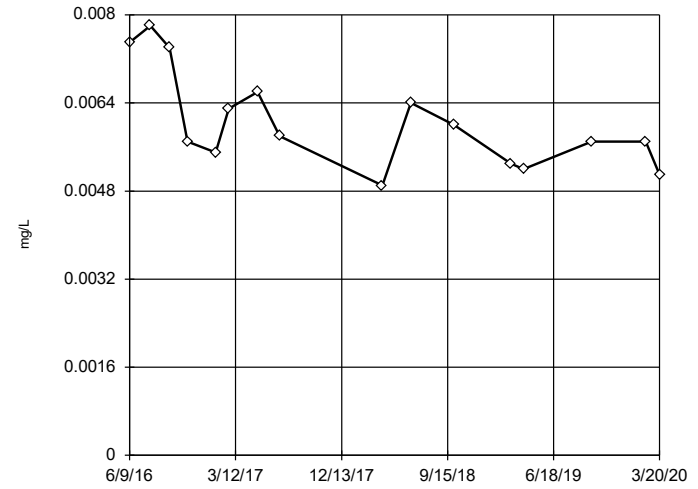
Tukey's Outlier Screening YGWC-28S



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

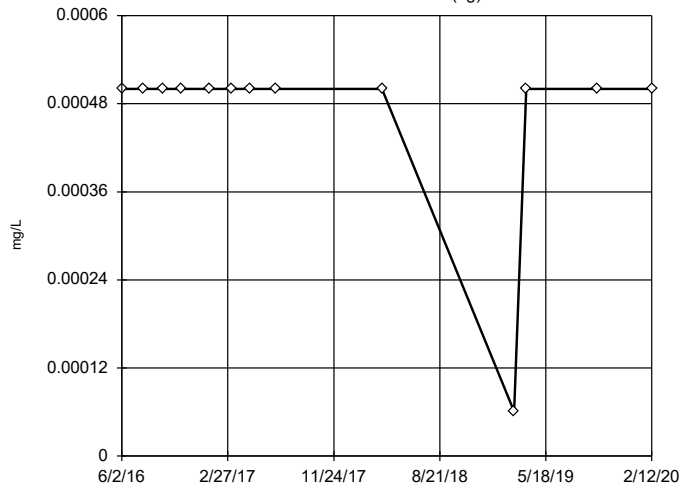
Tukey's Outlier Screening YGWC-29I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0098,
 low cutoff = 0.0021, based
 on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

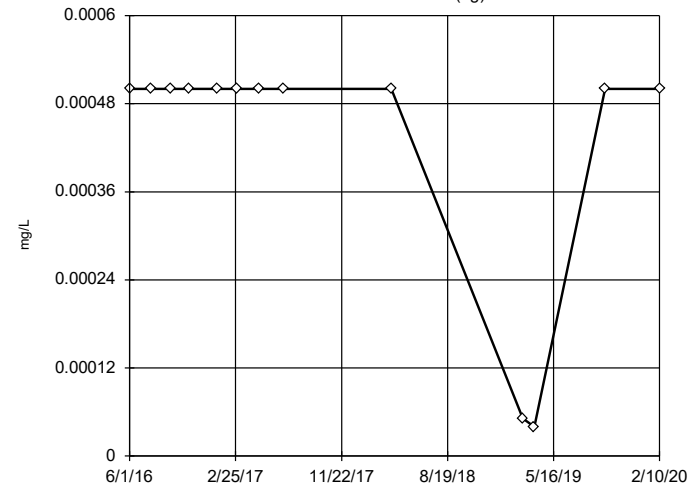
Tukey's Outlier Screening YGWA-14S (bg)



n = 13
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

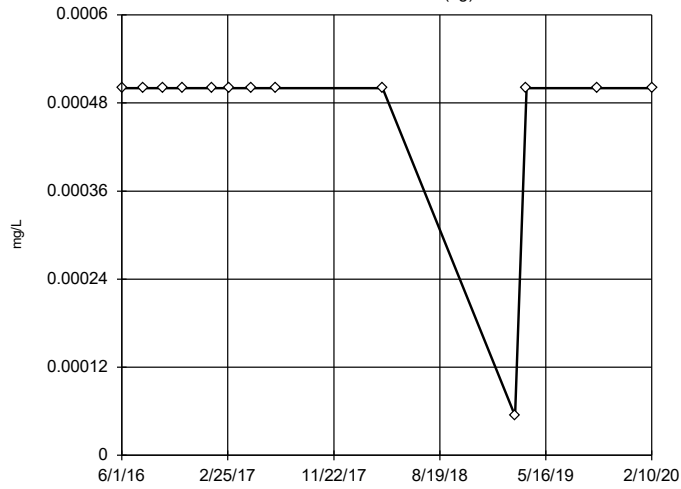
Tukey's Outlier Screening YGWA-1D (bg)



n = 13
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

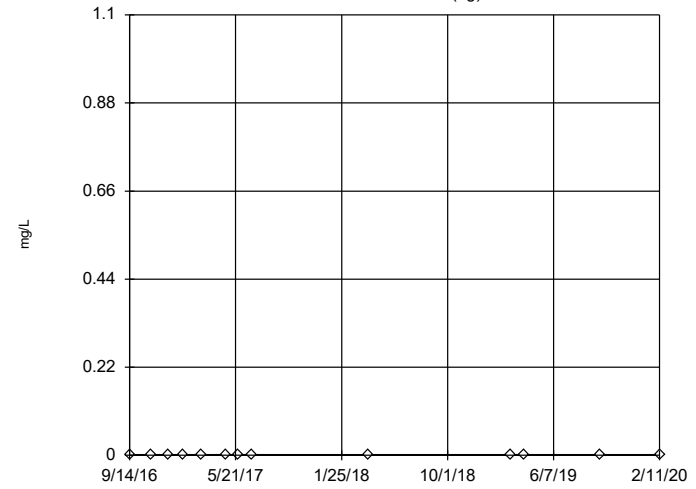
Tukey's Outlier Screening YGWA-11 (bg)



n = 13
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

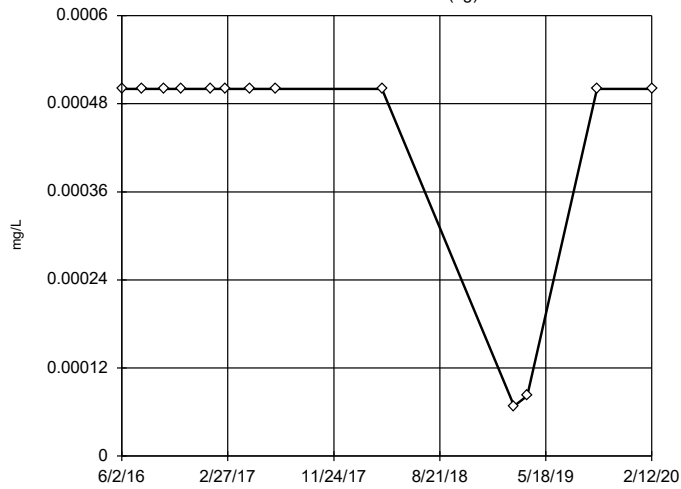
Tukey's Outlier Screening YGWA-21 (bg)



n = 13
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

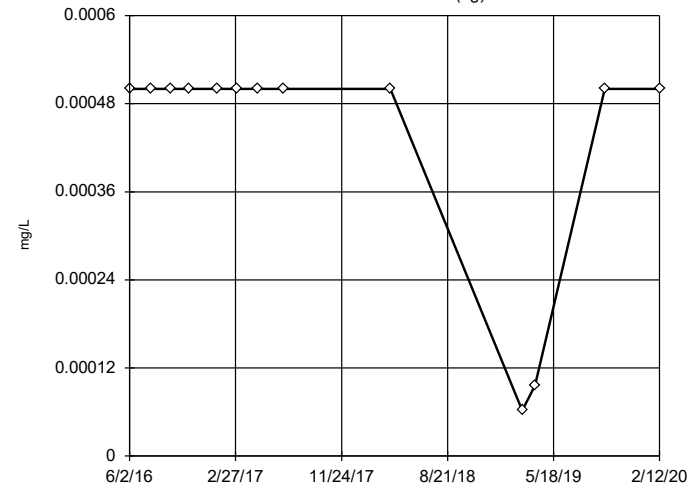
Tukey's Outlier Screening YGWA-30I (bg)



n = 13
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

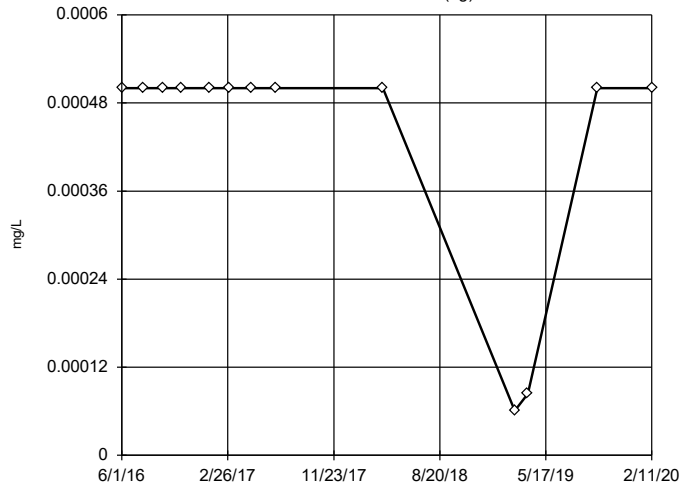
Tukey's Outlier Screening YGWA-3D (bg)



n = 13
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

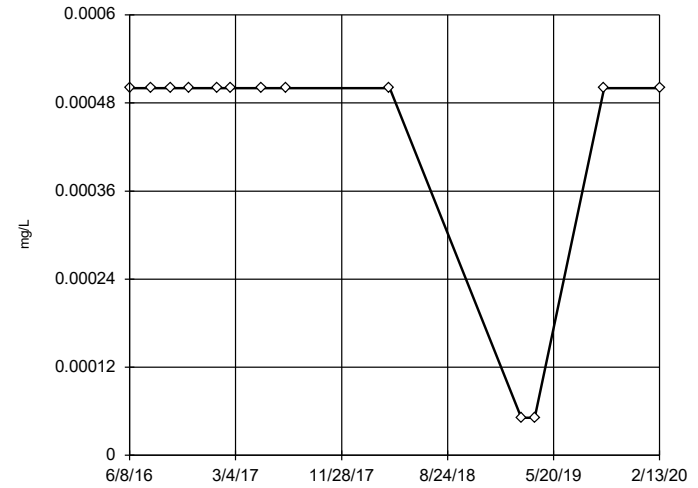
Tukey's Outlier Screening YGWA-3I (bg)



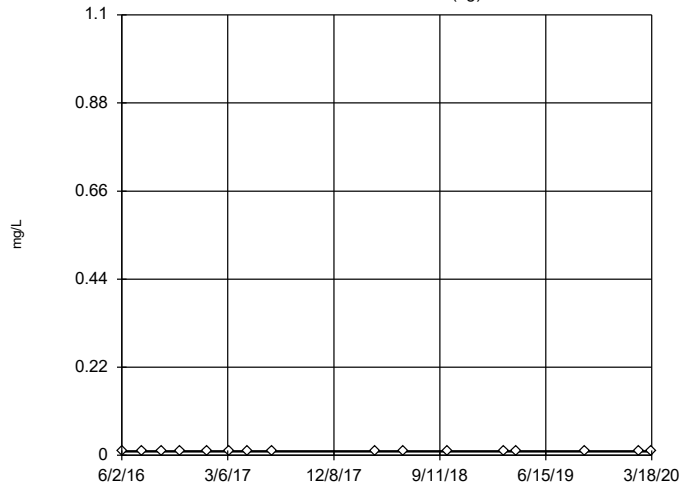
n = 13
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWC-26I



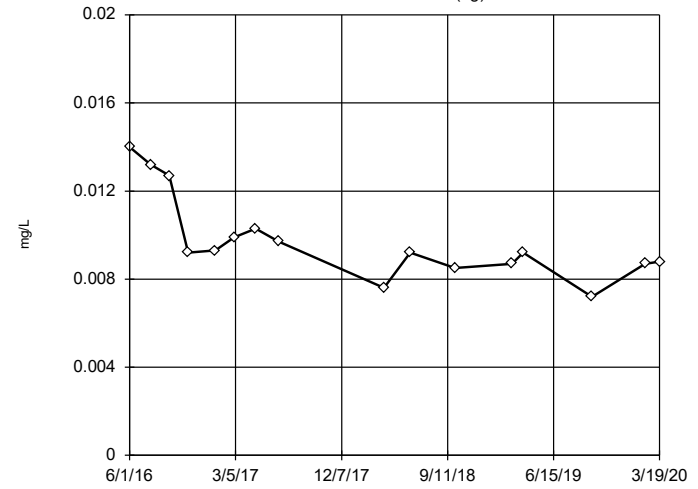
Tukey's Outlier Screening YGWA-14S (bg)



n = 16
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

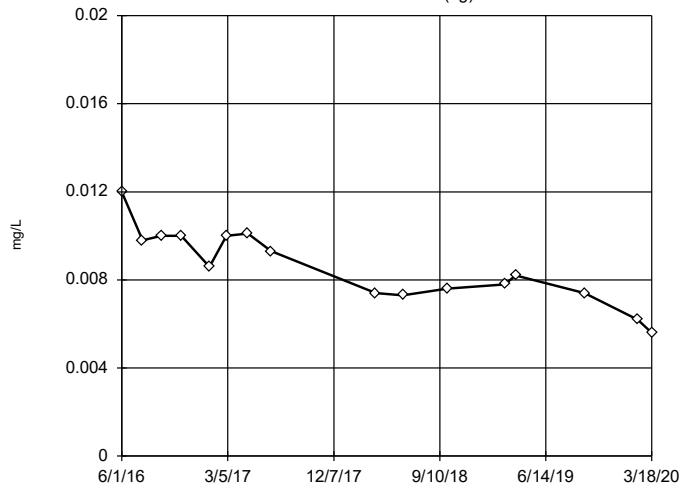
Tukey's Outlier Screening YGWA-1D (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0143, low cutoff = 0.0045, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

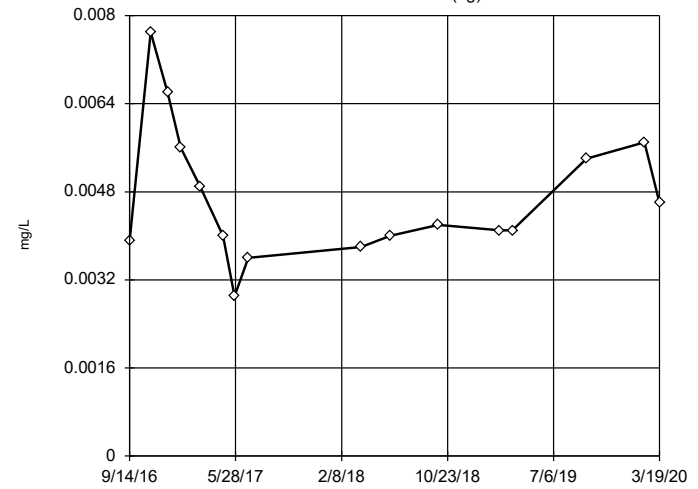
Tukey's Outlier Screening YGWA-11 (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0178, low cutoff = -0.0004, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

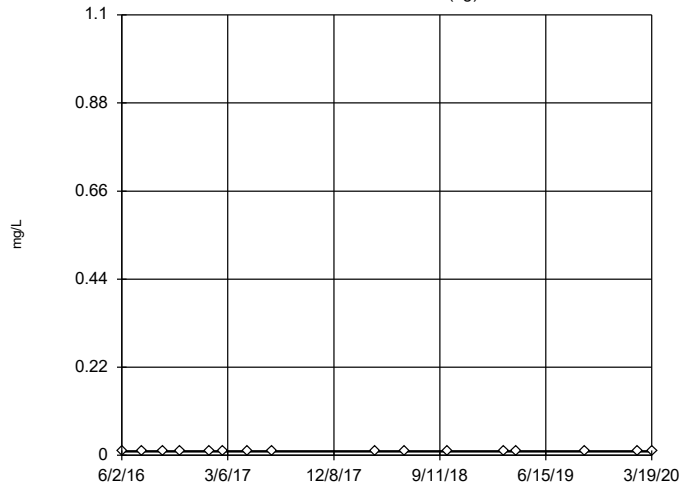
Tukey's Outlier Screening YGWA-2I (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.01015, low cutoff = -0.0007, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

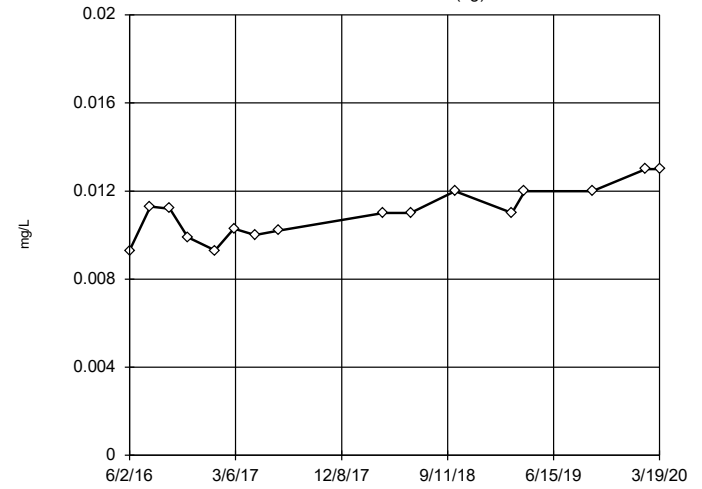
Tukey's Outlier Screening YGWA-30I (bg)



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

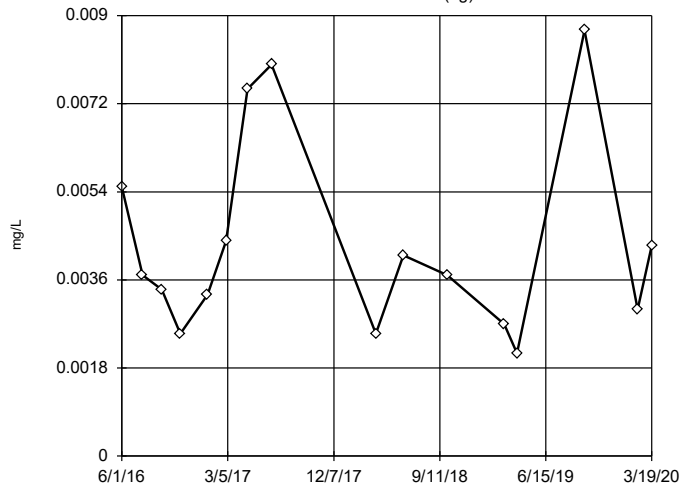
Tukey's Outlier Screening YGWA-3D (bg)



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0177,
 low cutoff = 0.0044, based
 on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

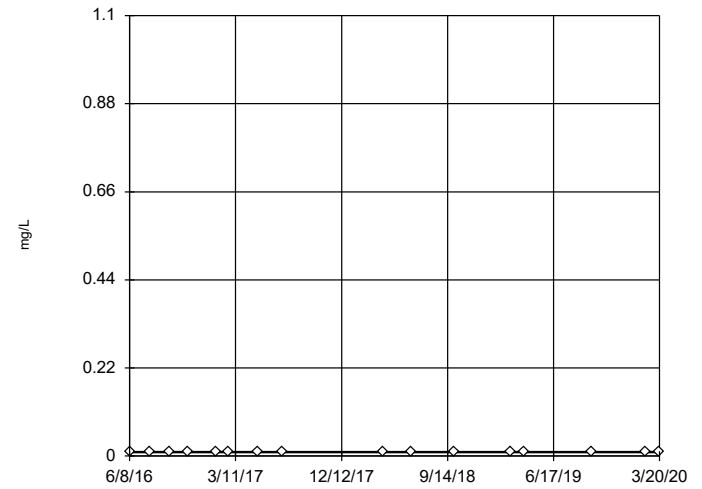
Tukey's Outlier Screening YGWA-3I (bg)



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01125,
 low cutoff = -0.00345,
 based on IQR multiplier
 of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

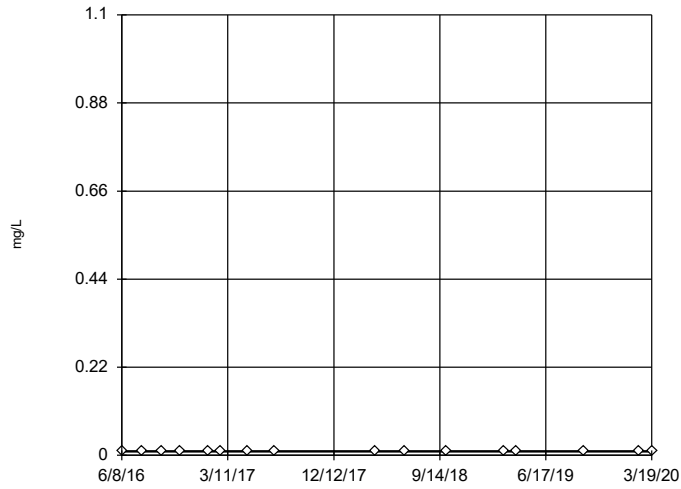
Tukey's Outlier Screening YGWC-26I



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

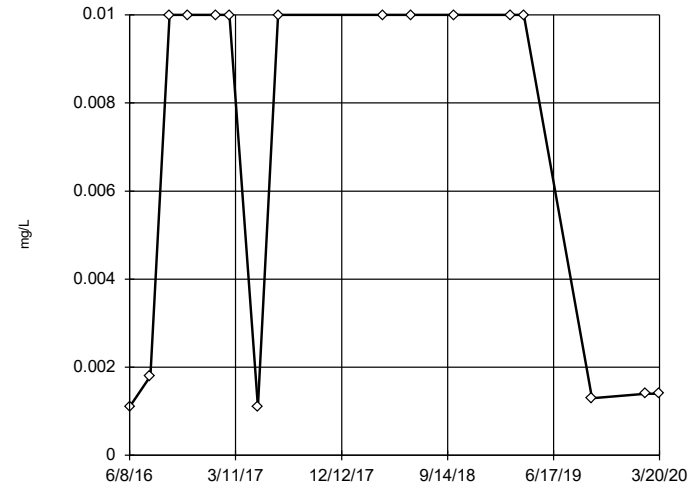
Tukey's Outlier Screening YGWC-26S



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

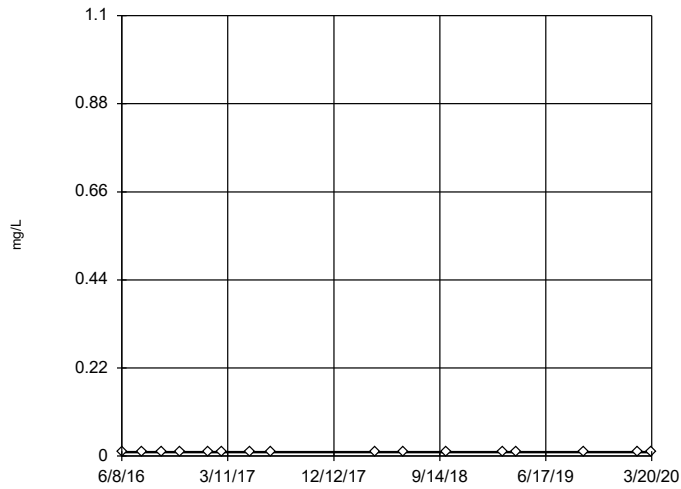
Tukey's Outlier Screening YGWC-27I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0358,
 low cutoff = -0.0244,
 based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

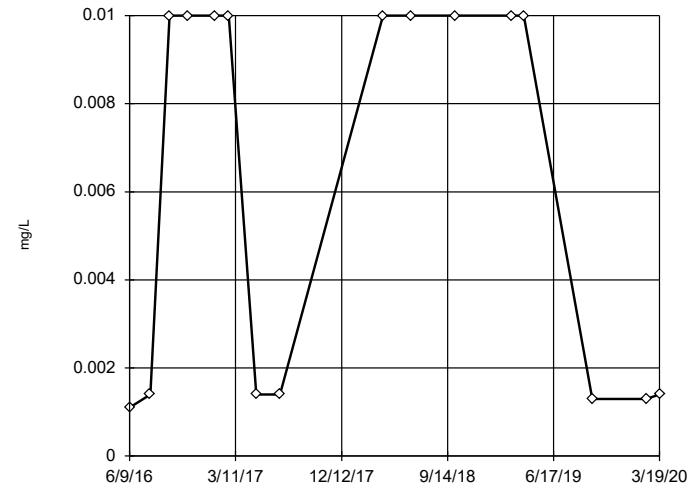
Tukey's Outlier Screening YGWC-27S



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWC-28I

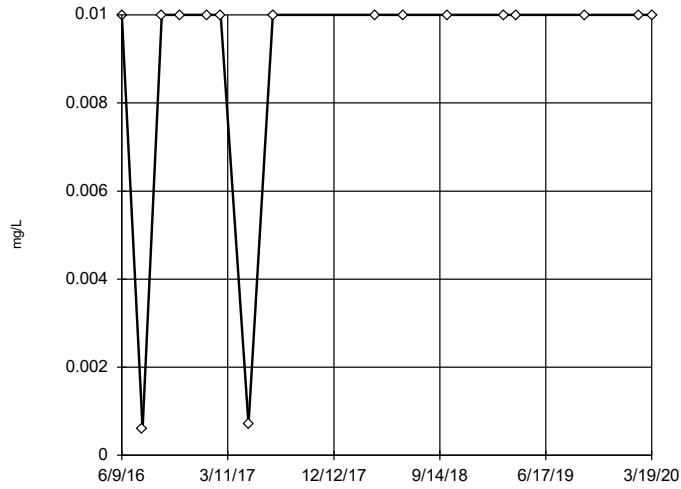


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0358,
 low cutoff = -0.0244,
 based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-28S

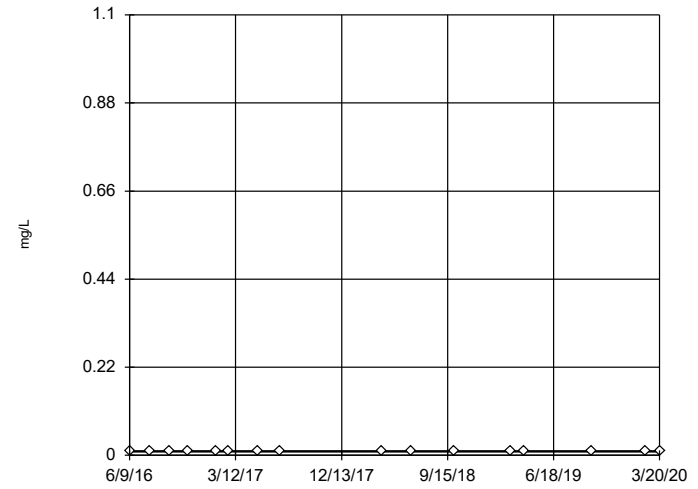


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-29I

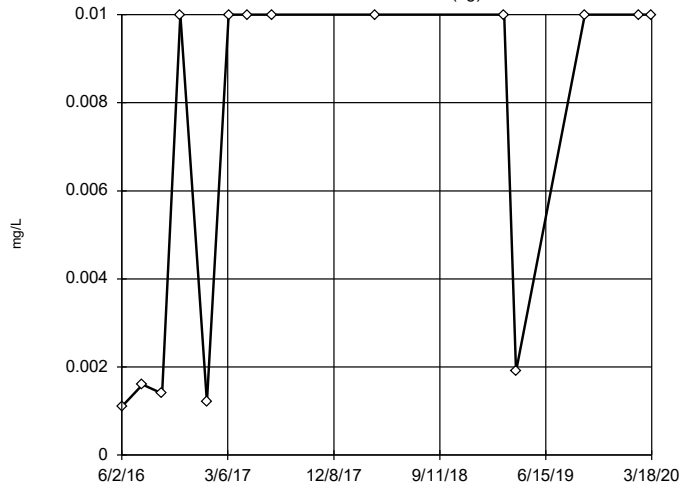


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-14S (bg)

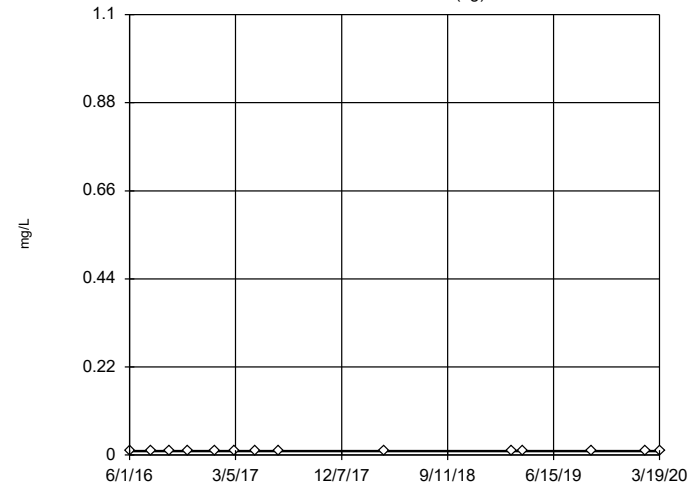


n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0355,
 low cutoff = -0.024, based
 on IQR multiplier of 3.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

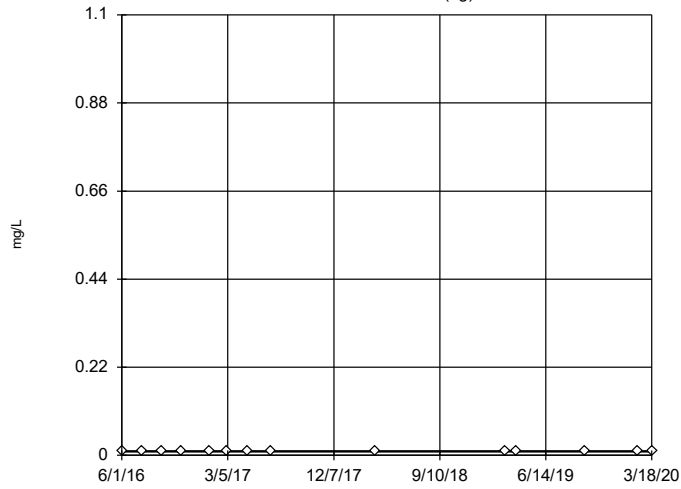
YGWA-1D (bg)



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

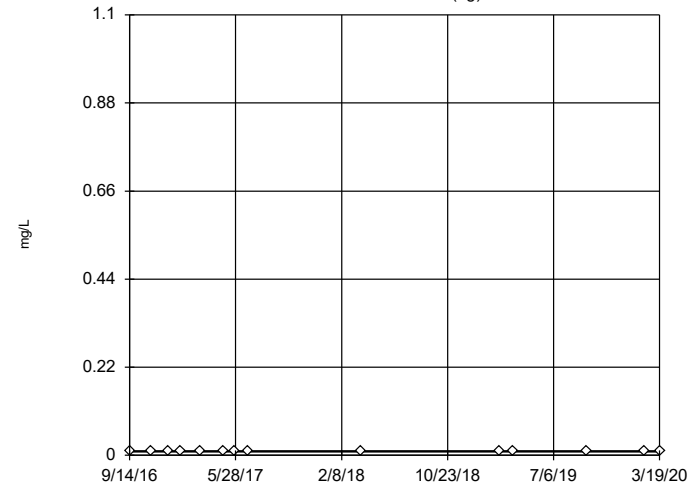
Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-11 (bg)



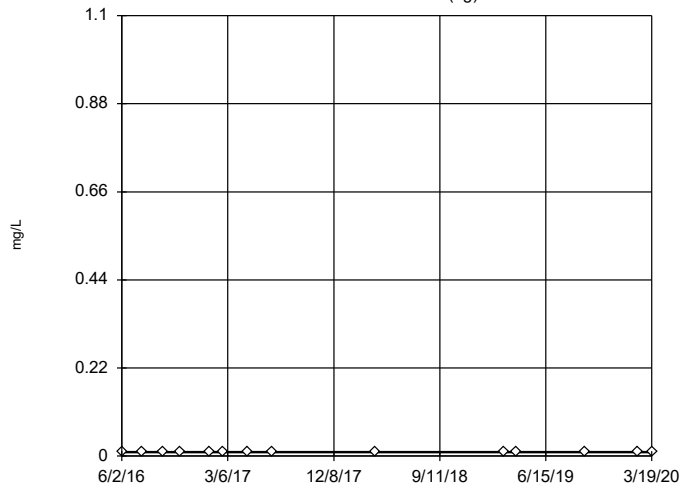
Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-21 (bg)



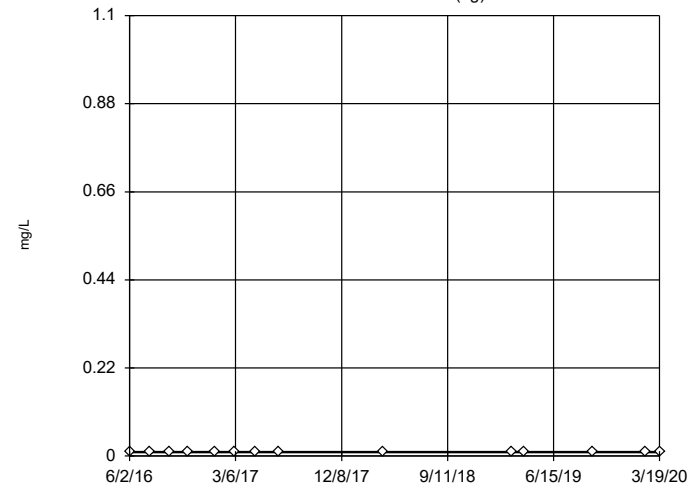
Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-30I (bg)



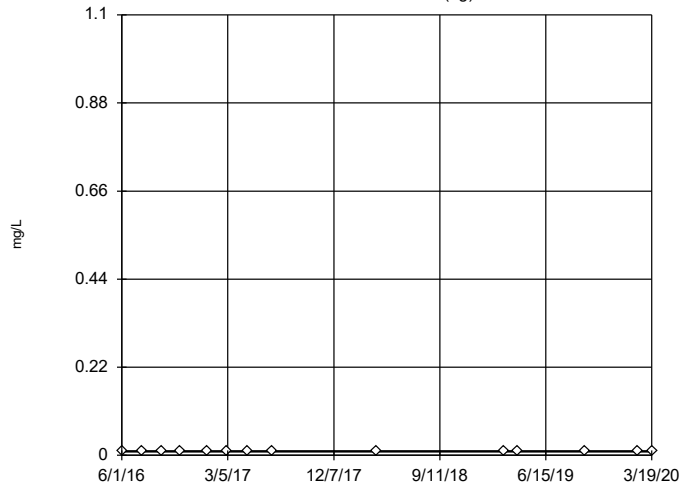
Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-3D (bg)



Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

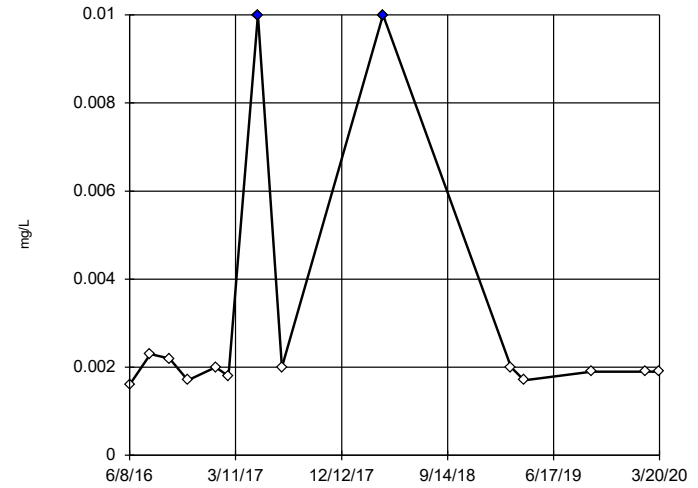
Tukey's Outlier Screening YGWA-3I (bg)



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

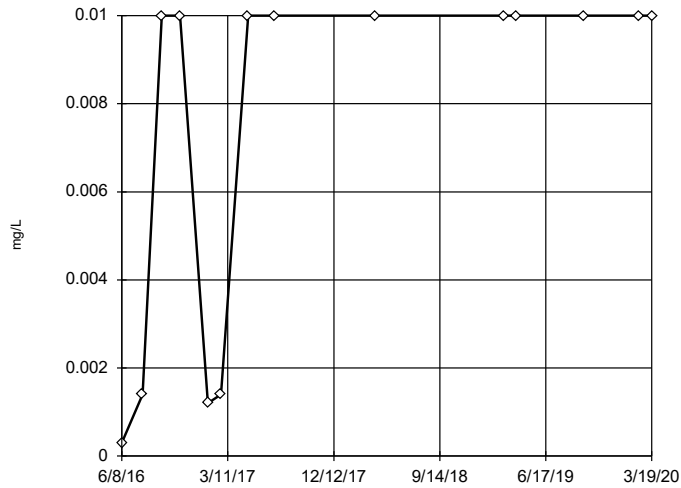
Tukey's Outlier Screening YGWC-26I



n = 14
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.00375,
 low cutoff = 0.00025,
 based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

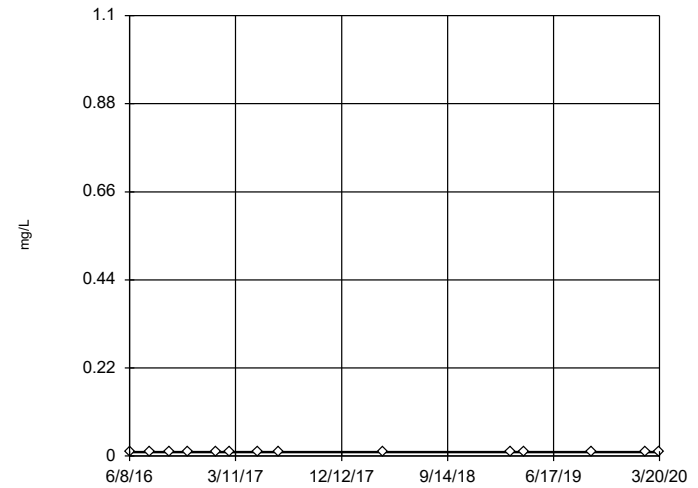
Tukey's Outlier Screening YGWC-26S



n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0358,
 low cutoff = -0.0244,
 based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

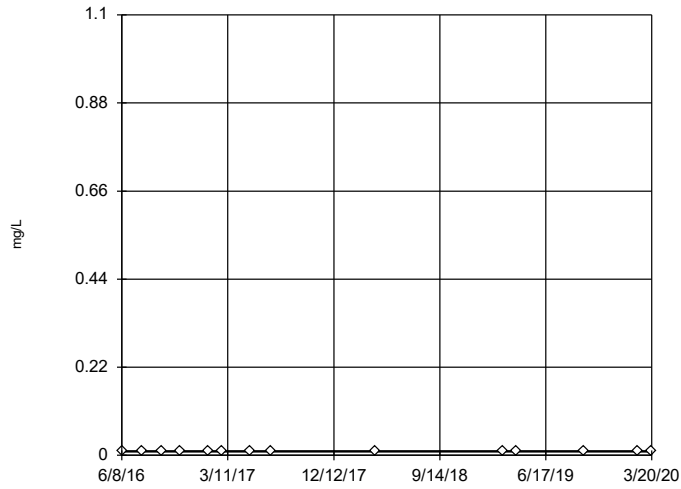
Tukey's Outlier Screening YGWC-27I



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

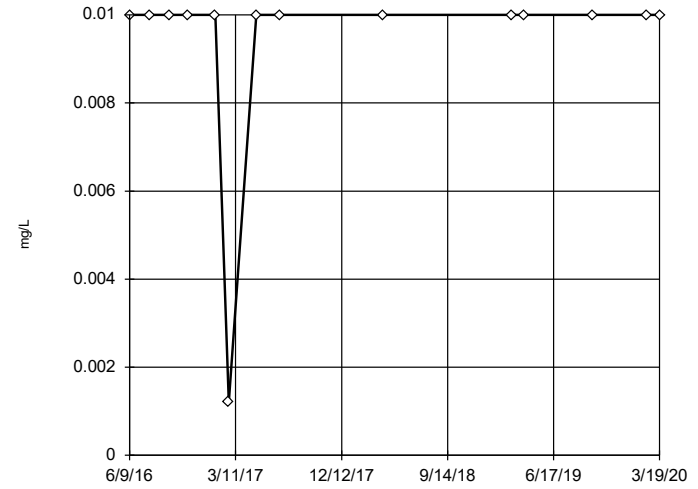
Tukey's Outlier Screening YGWC-27S



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

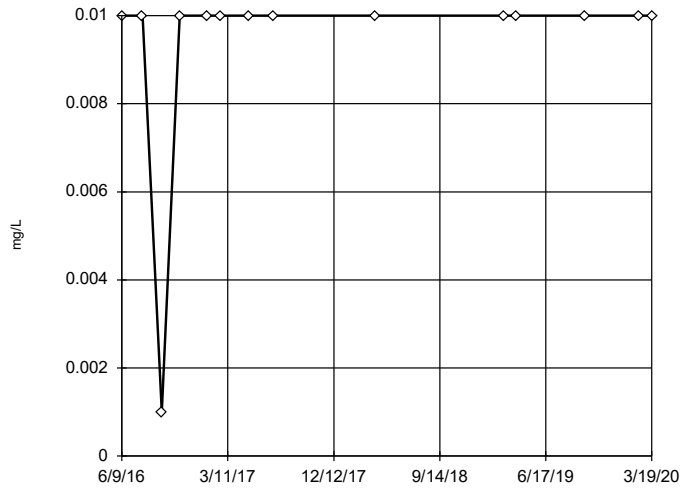
Tukey's Outlier Screening YGWC-28I



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

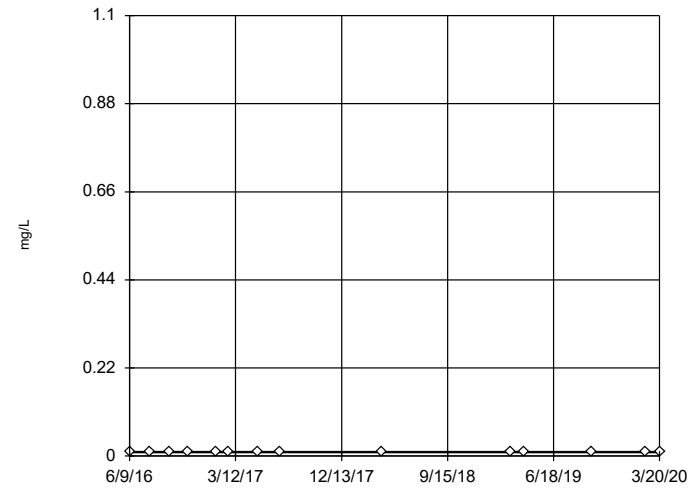
Tukey's Outlier Screening YGWC-28S



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

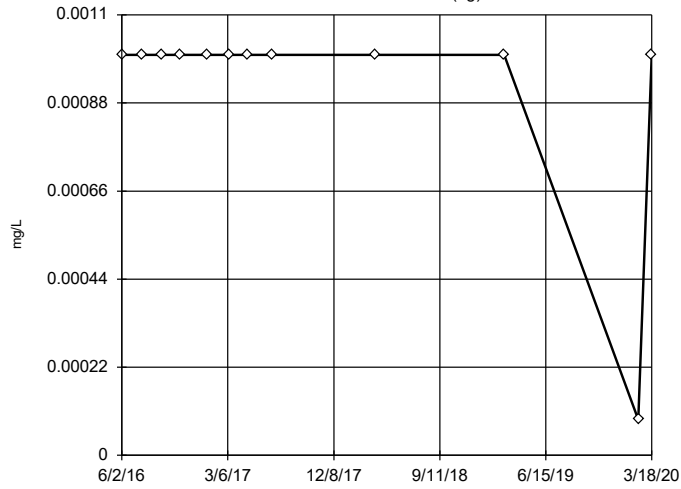
Tukey's Outlier Screening YGWC-29I



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

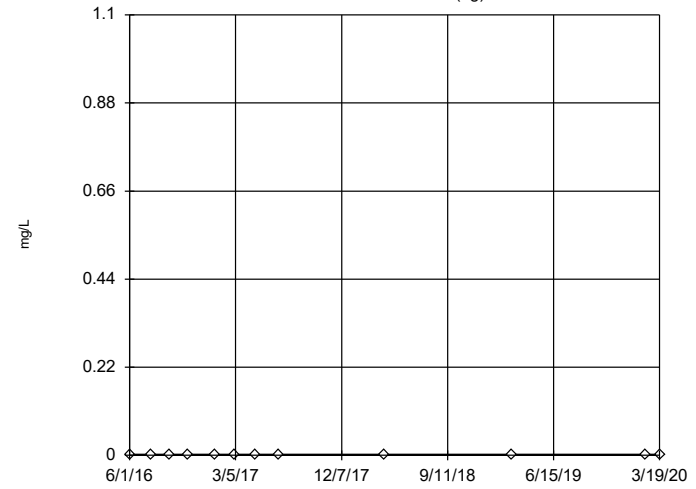
Tukey's Outlier Screening YGWA-14S (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

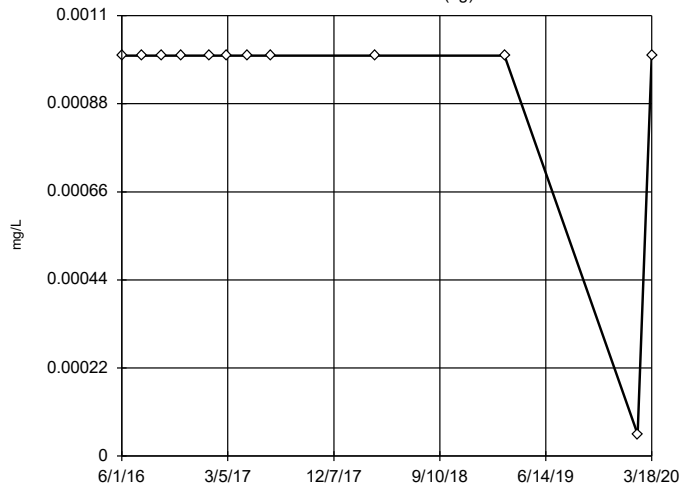
Tukey's Outlier Screening YGWA-1D (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

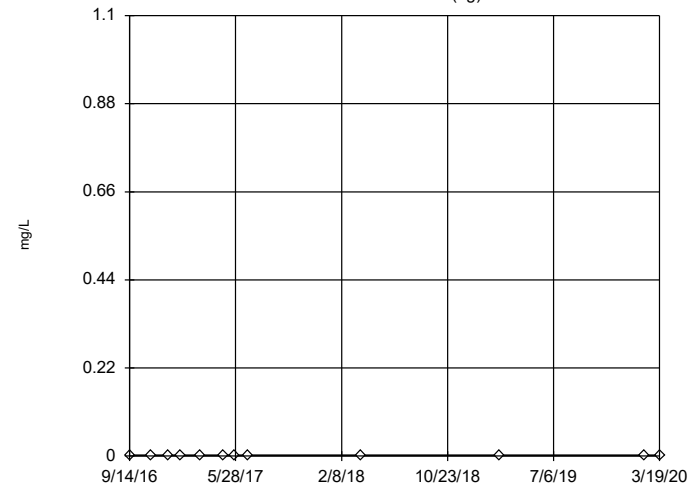
Tukey's Outlier Screening YGWA-11 (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

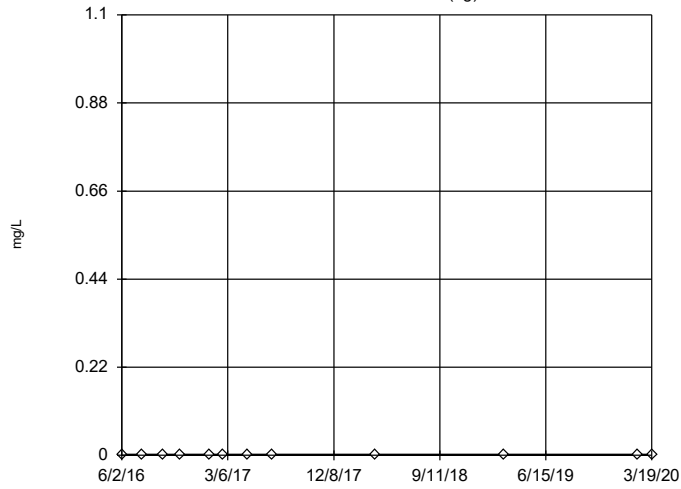
Tukey's Outlier Screening YGWA-2I (bg)



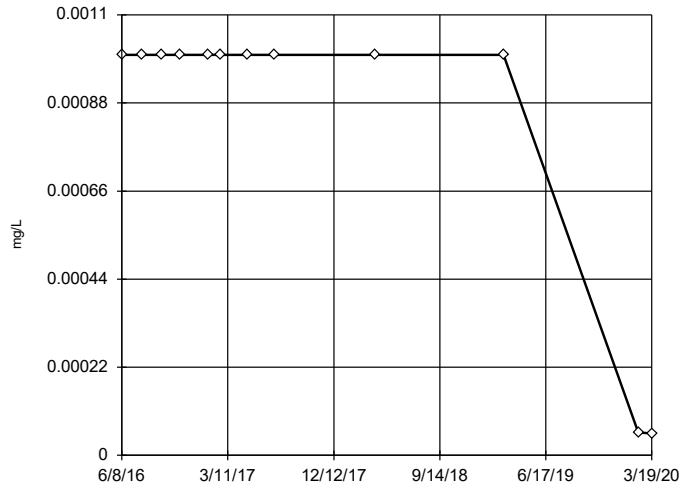
n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-30I (bg)



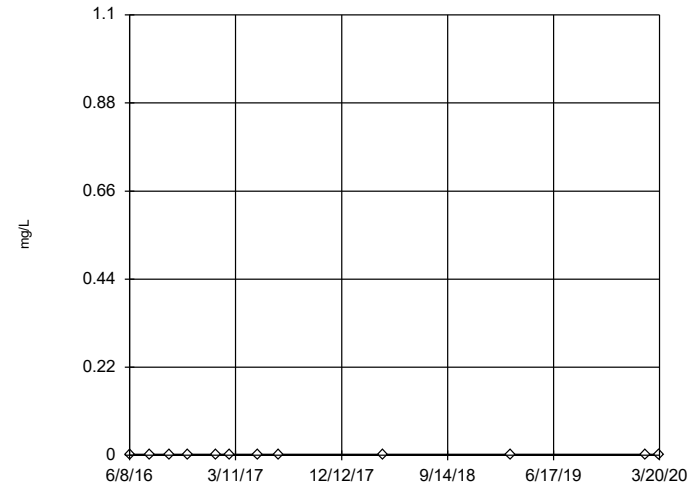
Tukey's Outlier Screening
YGWC-26S



n = 12
No outliers found. Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

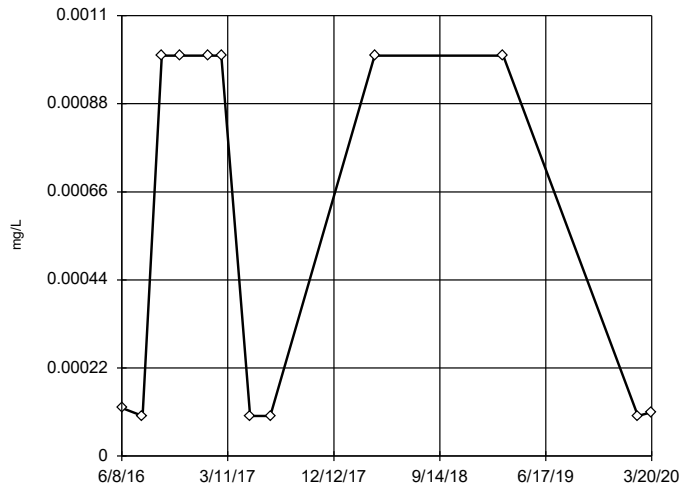
Tukey's Outlier Screening
YGWC-27I



n = 12
No outliers found. Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

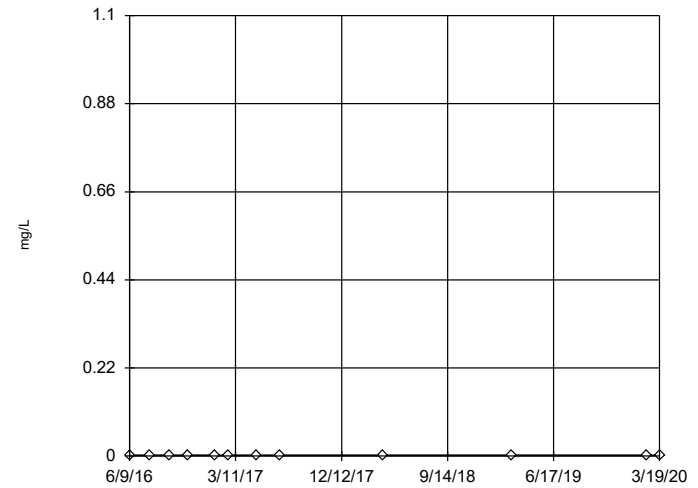
Tukey's Outlier Screening
YGWC-27S



n = 12
No outliers found. Tukey's method selected by user.
High cutoff = 0.0037, low cutoff = -0.0026, based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

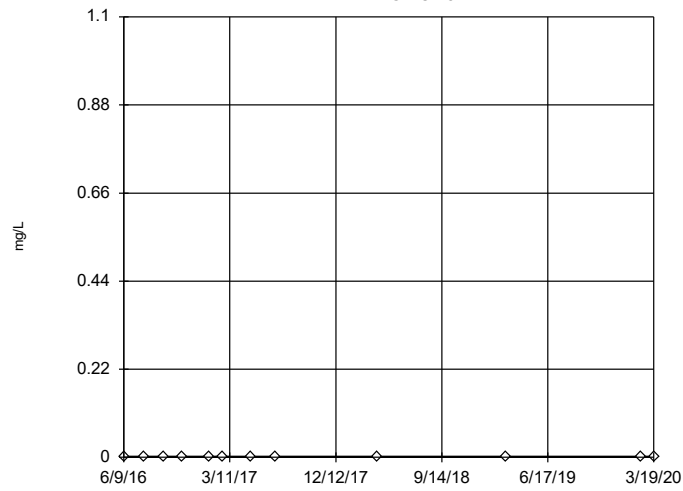
Tukey's Outlier Screening
YGWC-28I



n = 12
No outliers found. Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

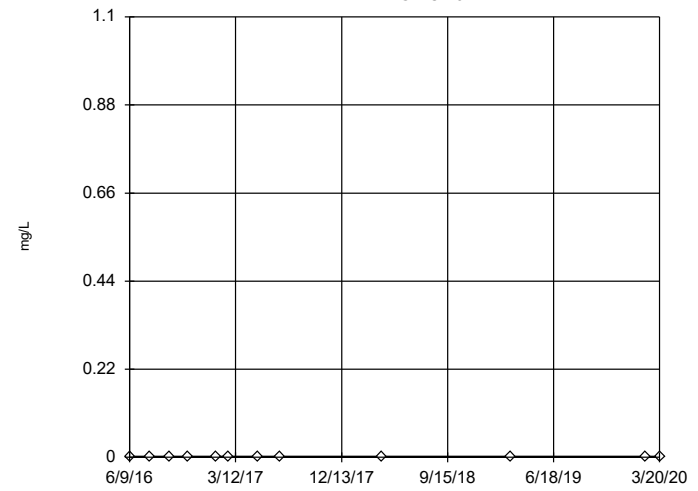
Tukey's Outlier Screening YGWC-28S



n = 12
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 5/12/2020 3:27 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWC-29I



n = 12
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 5/12/2020 3:27 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE D.

Upgradient Wells Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:38 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------|---------------|----------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Calcium (mg/L) | YGWA-14S (bg) | -0.05271 | -60 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1D (bg) | 1.11 | 48 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3D (bg) | -0.02531 | -61 | -58 | Yes | 17 | 5.882 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-1D (bg) | -0.1114 | -61 | -58 | Yes | 17 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1D (bg) | 1.261 | 51 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3D (bg) | 0.7245 | 46 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |

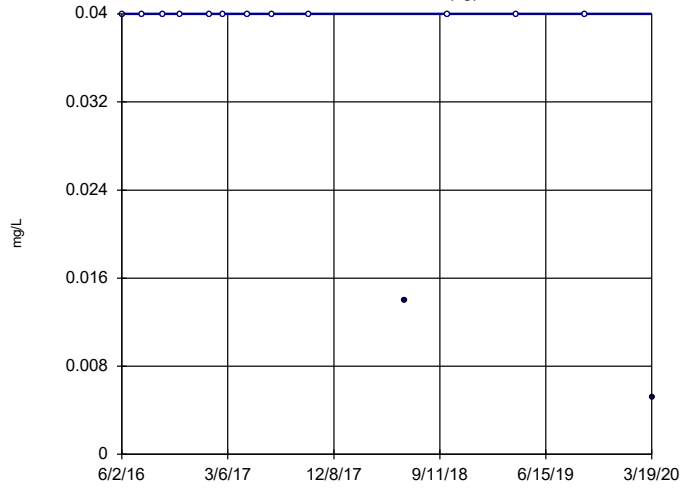
Upgradient Wells Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:38 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|----------------------|-----------------|------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Boron (mg/L) | YGWA-14S (bg) | -0.002489 | -37 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-1D (bg) | -0.001025 | -26 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-1I (bg) | 0 | -33 | -44 | No | 14 | 64.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-2I (bg) | 0 | -26 | -44 | No | 14 | 71.43 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-30I (bg) | 0 | -19 | -44 | No | 14 | 85.71 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-3D (bg) | 0 | -13 | -44 | No | 14 | 57.14 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-3I (bg) | 0 | -13 | -44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-14S (bg) | -0.05271 | -60 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1D (bg) | 1.11 | 48 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1I (bg) | -0.1025 | -37 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-2I (bg) | 0.9579 | 31 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-30I (bg) | -0.0134 | -7 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-3D (bg) | 1.219 | 40 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-3I (bg) | 0.4381 | 18 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-14S (bg) | 0 | 6 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-1D (bg) | 0 | -11 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-1I (bg) | 0 | -5 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-2I (bg) | -0.03701 | -16 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-30I (bg) | 0 | 4 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-3D (bg) | -0.07067 | -33 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-3I (bg) | -0.04953 | -37 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-14S (bg) | 0 | 14 | 58 | No | 17 | 94.12 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-1D (bg) | -0.004818 | -21 | -58 | No | 17 | 35.29 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-1I (bg) | 0 | 17 | 58 | No | 17 | 88.24 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-2I (bg) | 0 | 6 | 58 | No | 17 | 23.53 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-30I (bg) | 0 | 14 | 58 | No | 17 | 94.12 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3D (bg) | -0.02531 | -61 | -58 | Yes | 17 | 5.882 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3I (bg) | -0.01022 | -25 | -58 | No | 17 | 29.41 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-14S (bg) | -0.01066 | -20 | -58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-1D (bg) | -0.1114 | -61 | -58 | Yes | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-1I (bg) | -0.04218 | -52 | -58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-2I (bg) | -0.03531 | -21 | -58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-30I (bg) | 0.005933 | 5 | 58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-3D (bg) | -0.0353 | -29 | -58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| pH (S.U.) | YGWA-3I (bg) | -0.07822 | -46 | -58 | No | 17 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-14S (bg) | 0.3425 | 40 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1D (bg) | 1.261 | 51 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1I (bg) | -0.1237 | -7 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-2I (bg) | 0 | 0 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-30I (bg) | -0.05321 | -7 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3D (bg) | 0.7245 | 46 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3I (bg) | 0.6413 | 31 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-14S (bg) | 1.727 | 9 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-1D (bg) | 5.856 | 18 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-1I (bg) | -0.6315 | -3 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-2I (bg) | -3.471 | -25 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-30I (bg) | 4.021 | 23 | 44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-3D (bg) | 4.214 | 14 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | YGWA-3I (bg) | 1.372 | 6 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |

Sen's Slope Estimator

YGWA-30I (bg)

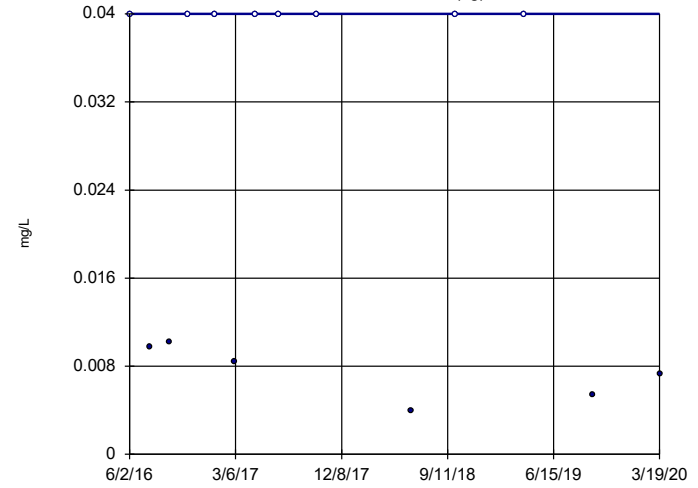


n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = -19
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Boron Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

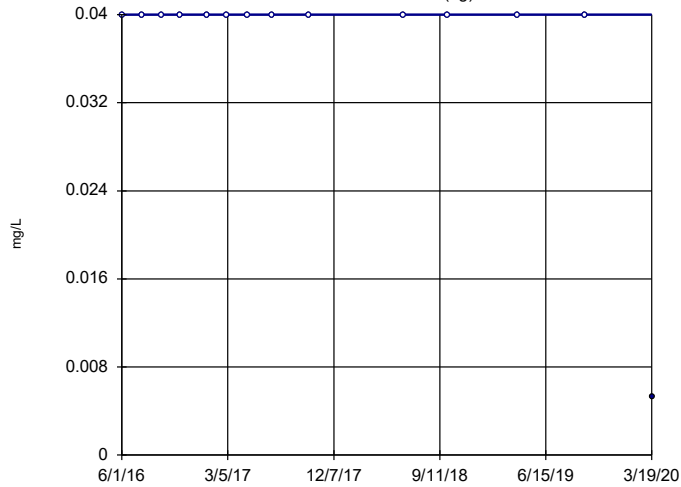


n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = -13
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Boron Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

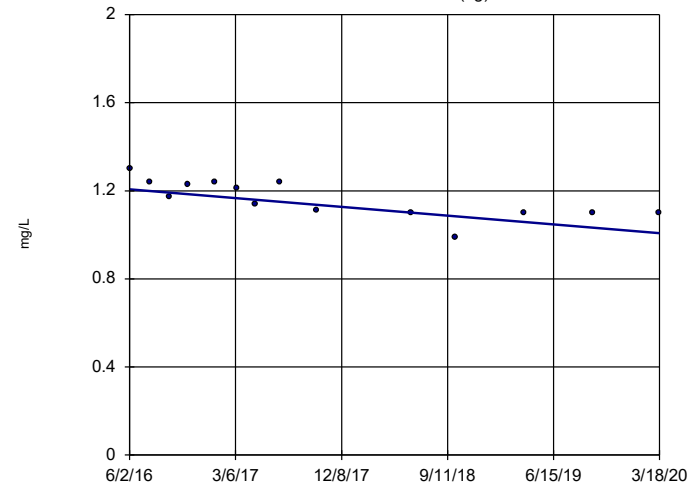


n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = -13
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Boron Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

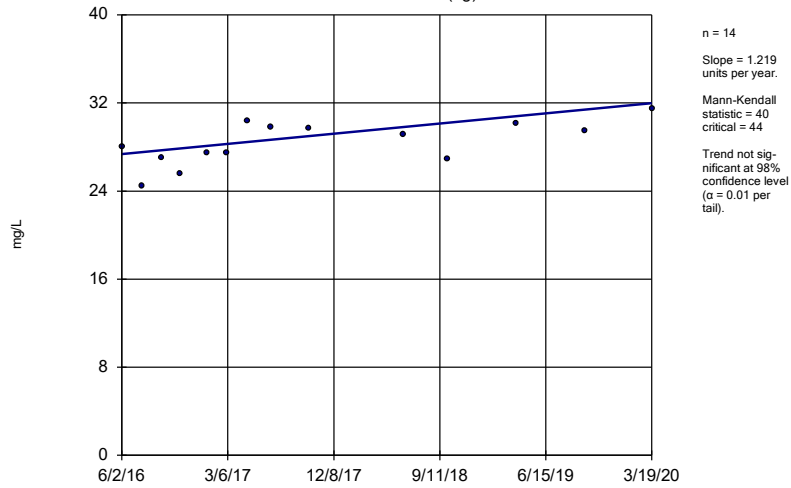
YGWA-14S (bg)



n = 14
Slope = -0.05271
units per year.
Mann-Kendall
statistic = -60
critical = -44
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

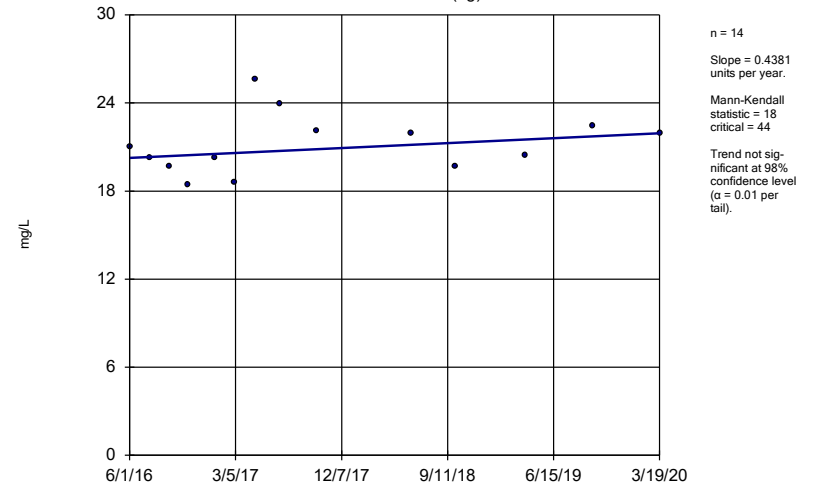
Constituent: Calcium Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



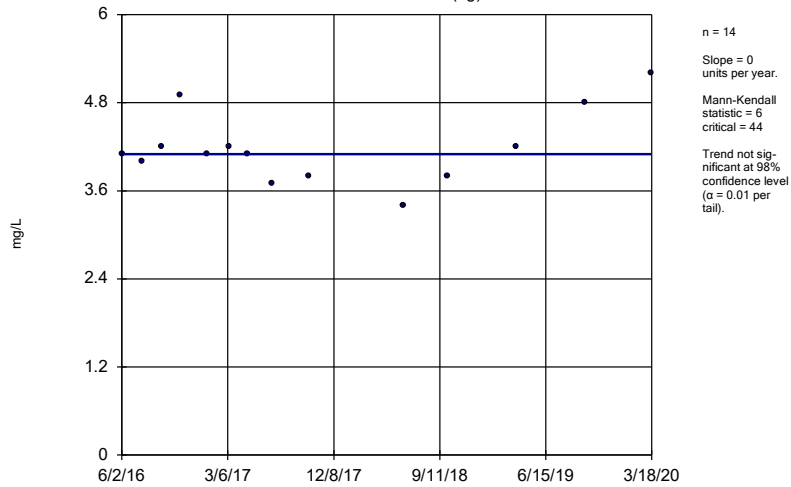
Constituent: Calcium Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



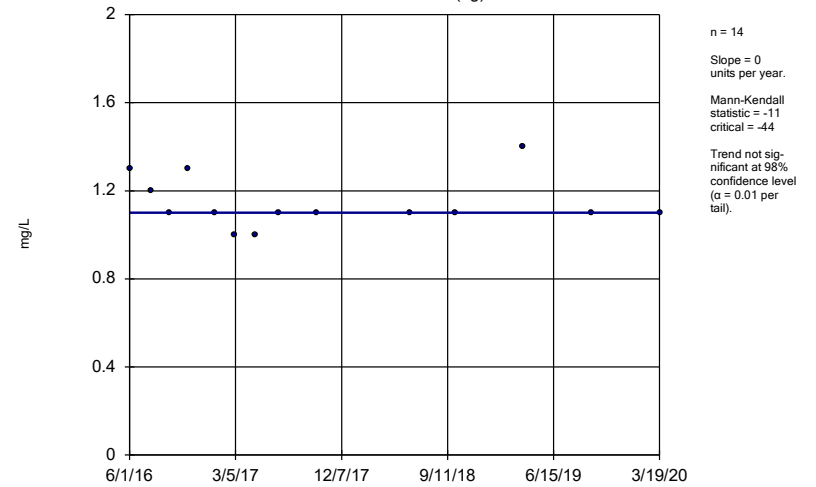
Constituent: Calcium Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

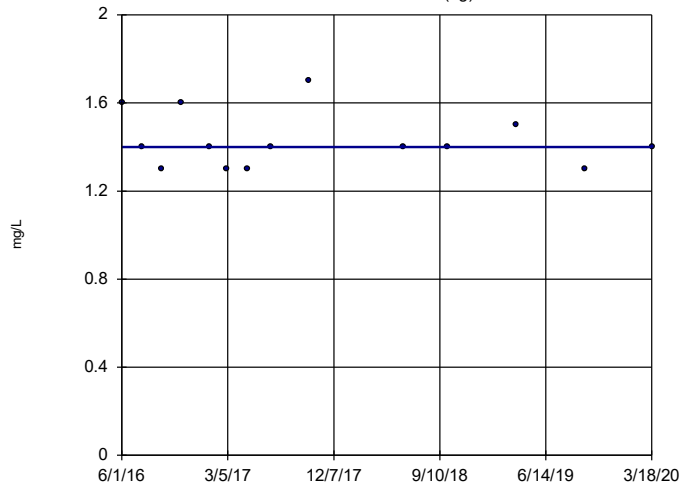
Sen's Slope Estimator YGWA-1D (bg)



Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-11 (bg)

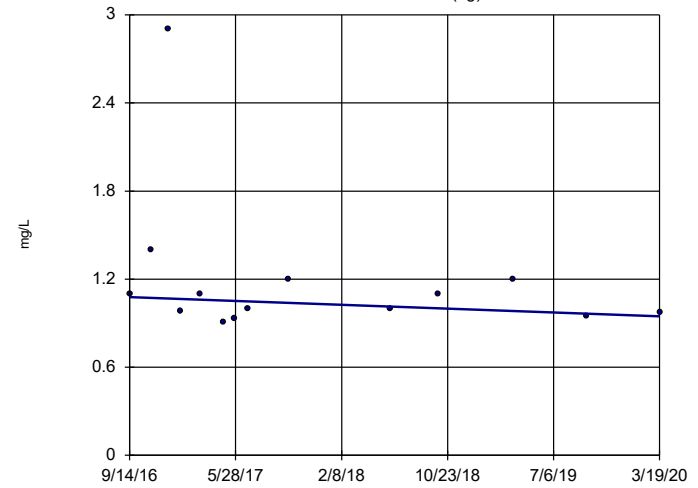


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21 (bg)

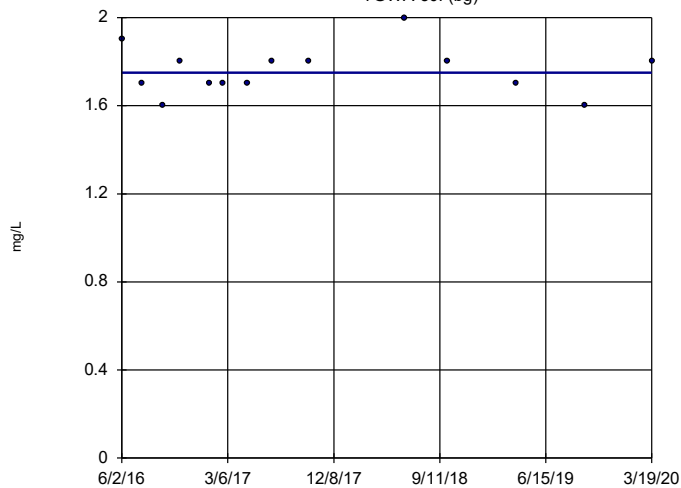


n = 14
 Slope = -0.03701
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

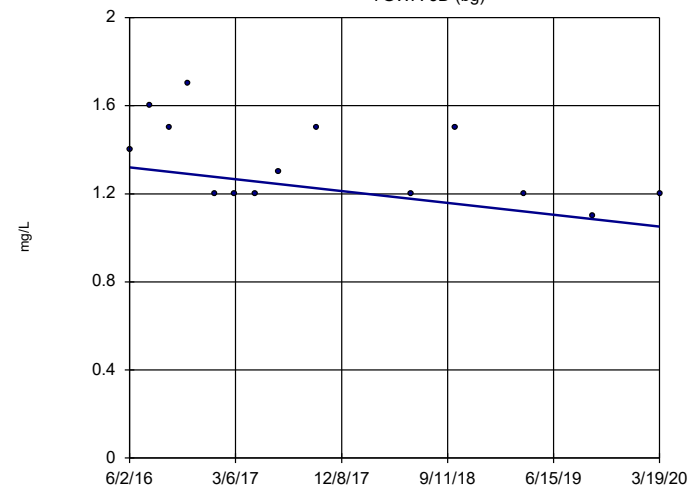


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

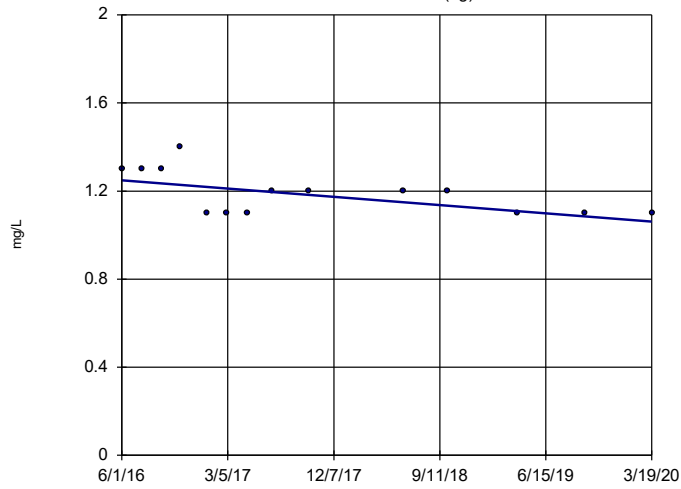


n = 14
 Slope = -0.07067
 units per year.
 Mann-Kendall
 statistic = -33
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

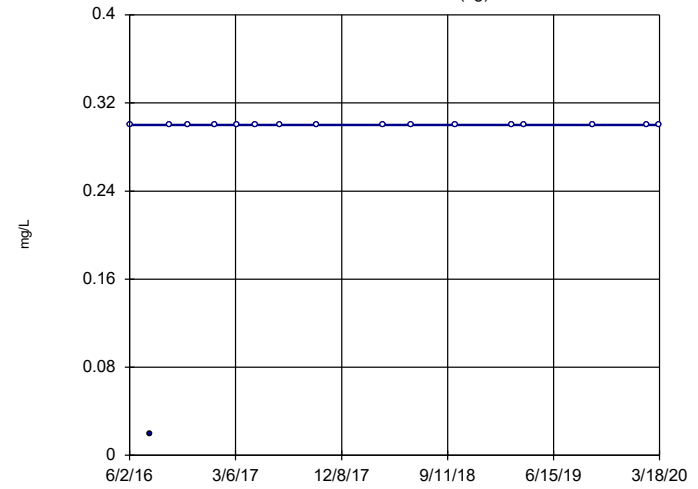


n = 14
 Slope = -0.04953
 units per year.
 Mann-Kendall
 statistic = -37
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-14S (bg)

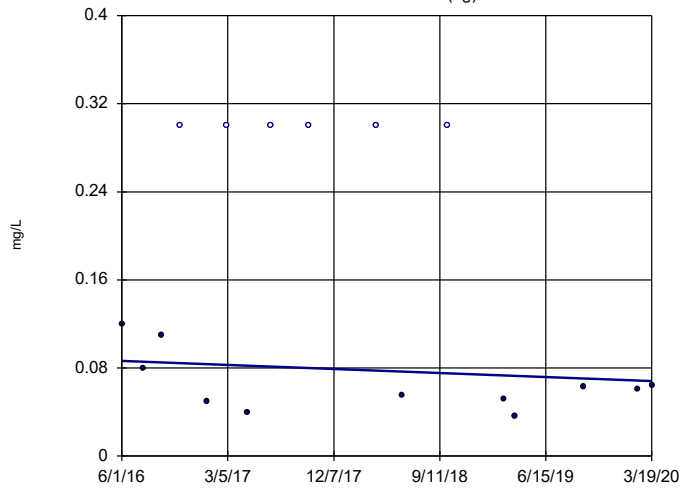


n = 17
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 14
 critical = 58
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)

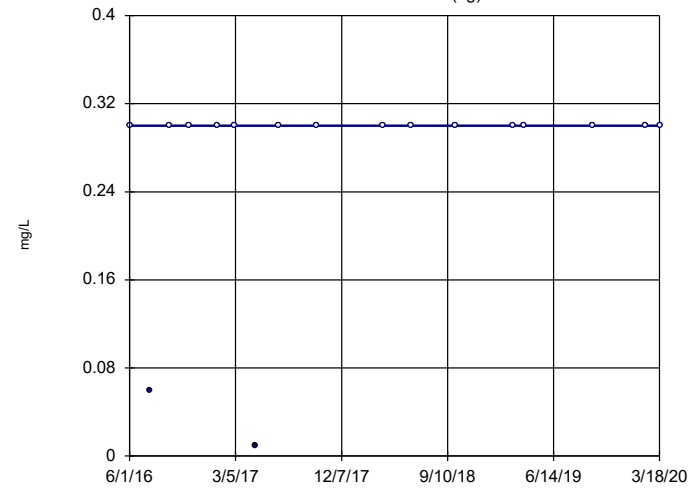


n = 17
 Slope = -0.004818
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -58
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

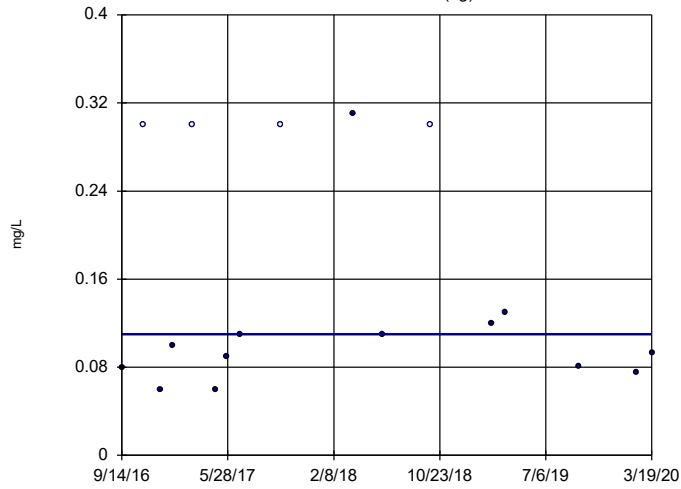
Sen's Slope Estimator

YGWA-1I (bg)



Sen's Slope Estimator

YGWA-2I (bg)

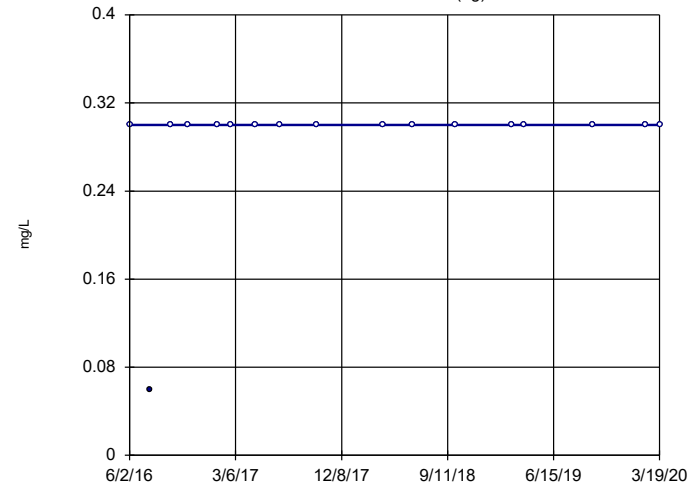


n = 17
Slope = 0
units per year.
Mann-Kendall
statistic = 6
critical = 58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

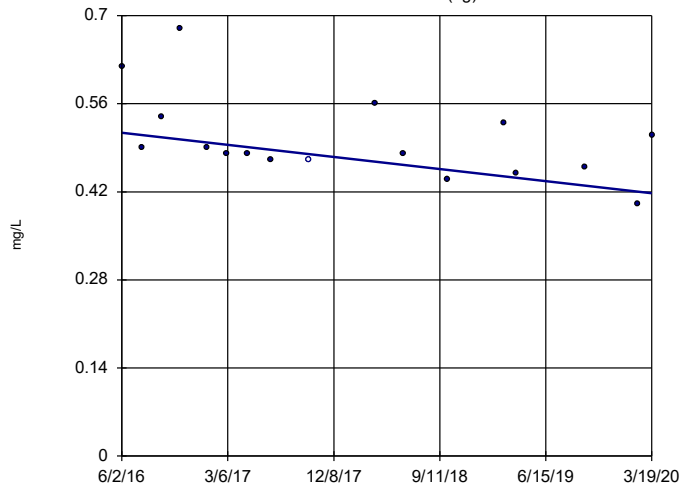


n = 17
Slope = 0
units per year.
Mann-Kendall
statistic = 14
critical = 58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

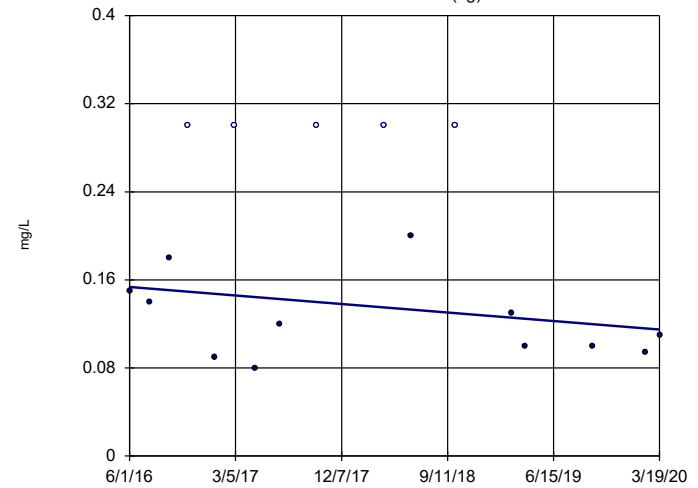


n = 17
Slope = -0.02531
units per year.
Mann-Kendall
statistic = -61
critical = -58
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

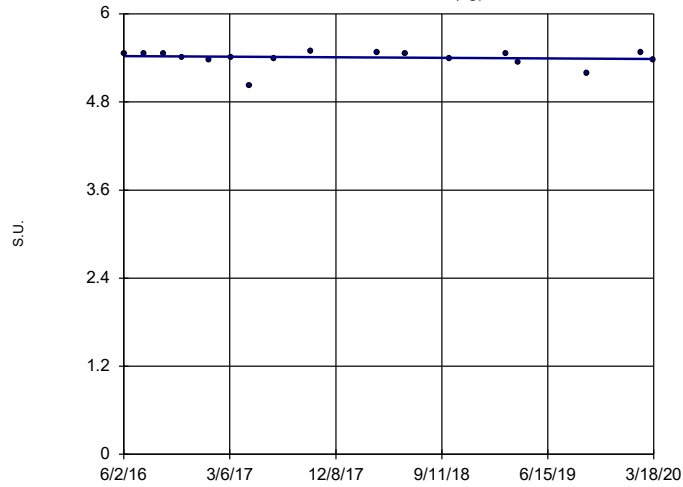


n = 17
Slope = -0.01022
units per year.
Mann-Kendall
statistic = -25
critical = -58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

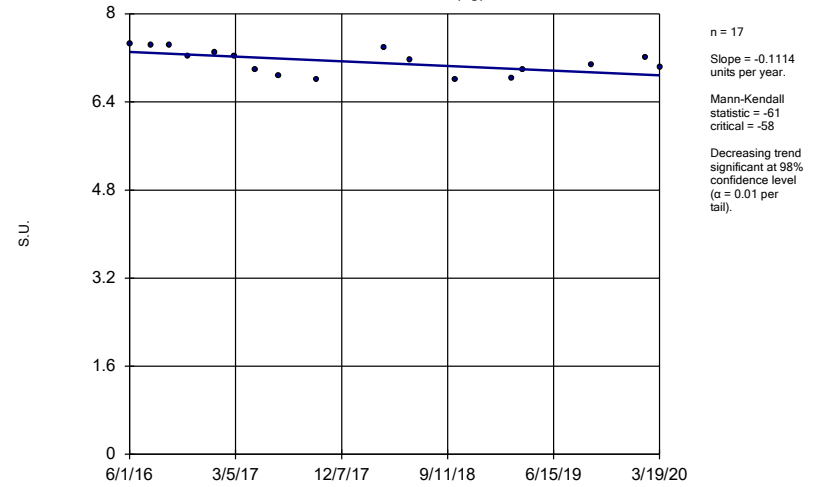
YGWA-14S (bg)



Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

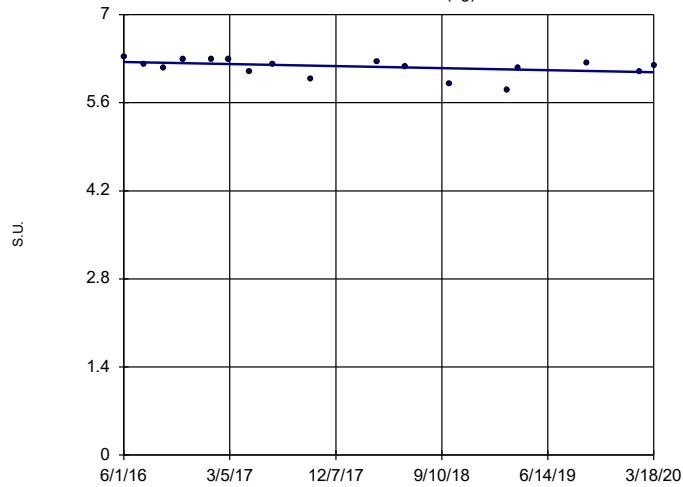
YGWA-1D (bg)



Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

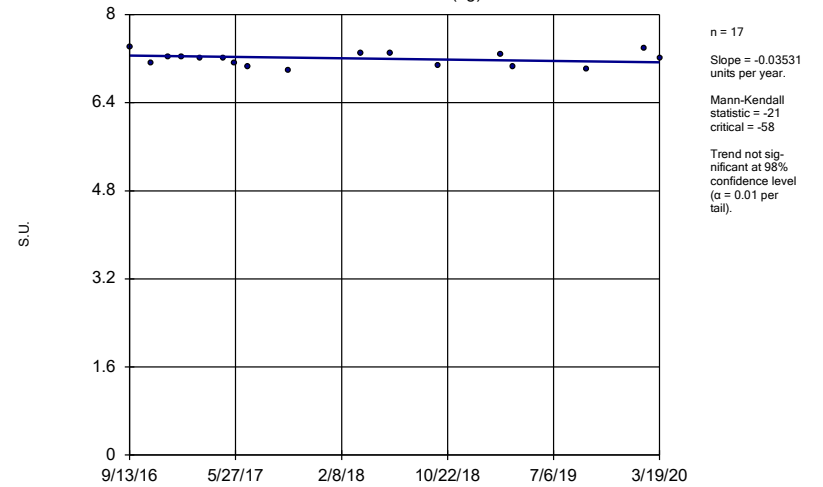
YGWA-11 (bg)



Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

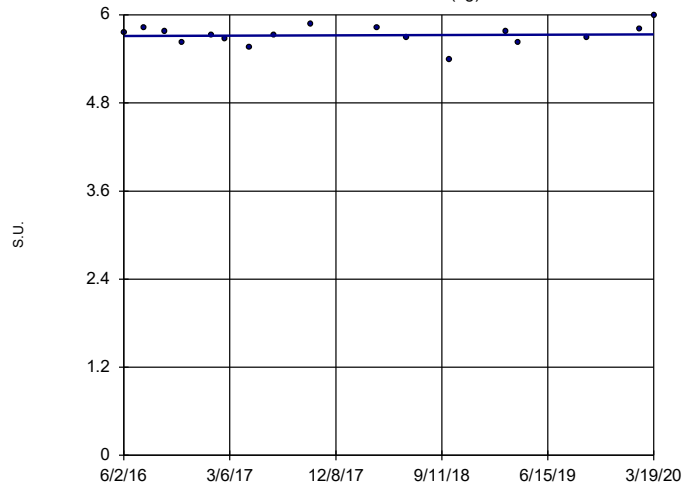
YGWA-2I (bg)



Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

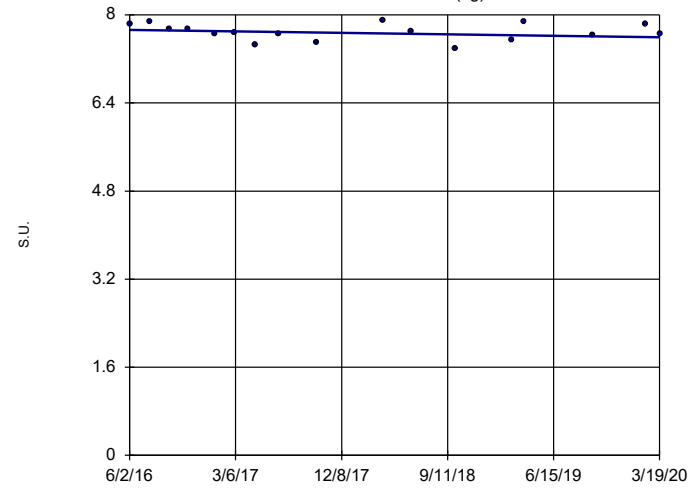


n = 17
 Slope = 0.005933 units per year.
 Mann-Kendall statistic = 5 critical = 58
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

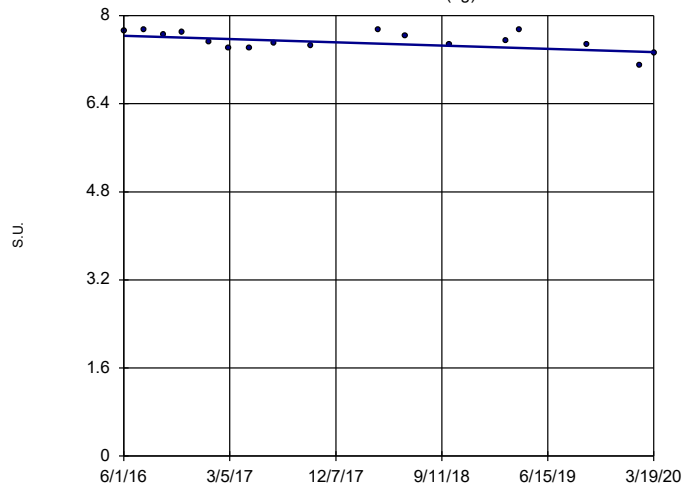


n = 17
 Slope = -0.0353 units per year.
 Mann-Kendall statistic = -29 critical = -58
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

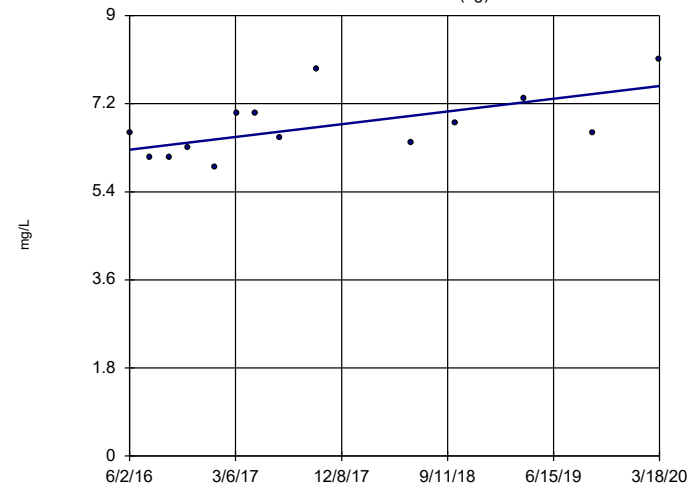


n = 17
 Slope = -0.07822 units per year.
 Mann-Kendall statistic = -46 critical = -58
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-14S (bg)

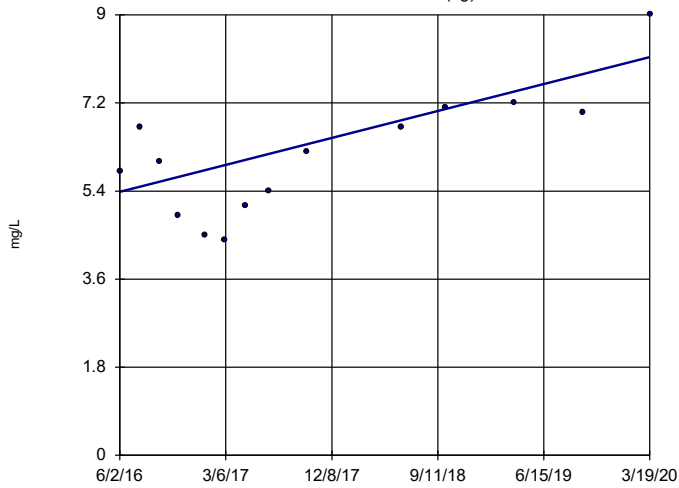


n = 14
 Slope = 0.3425 units per year.
 Mann-Kendall statistic = 40 critical = 44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

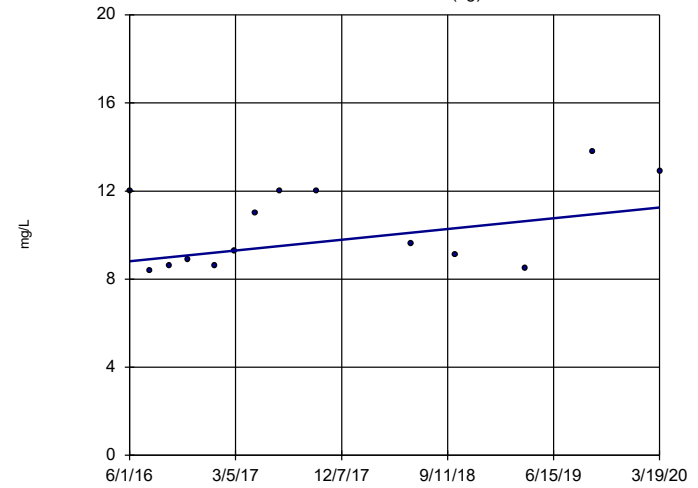


n = 14
 Slope = 0.7245 units per year.
 Mann-Kendall statistic = 46
 critical = 44
 Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

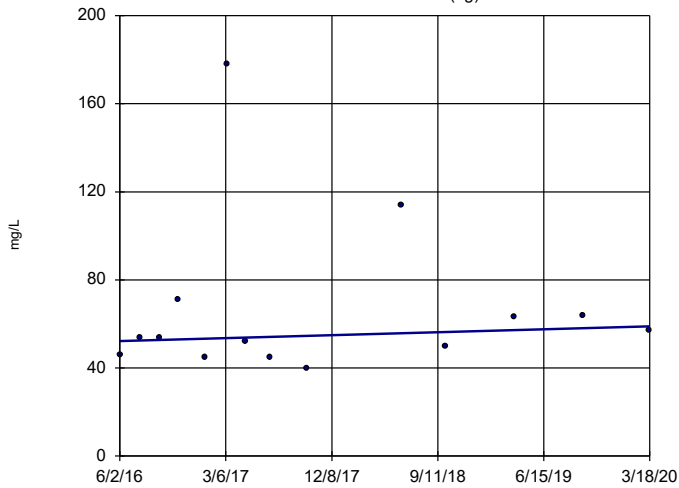


n = 14
 Slope = 0.6413 units per year.
 Mann-Kendall statistic = 31
 critical = 44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-14S (bg)

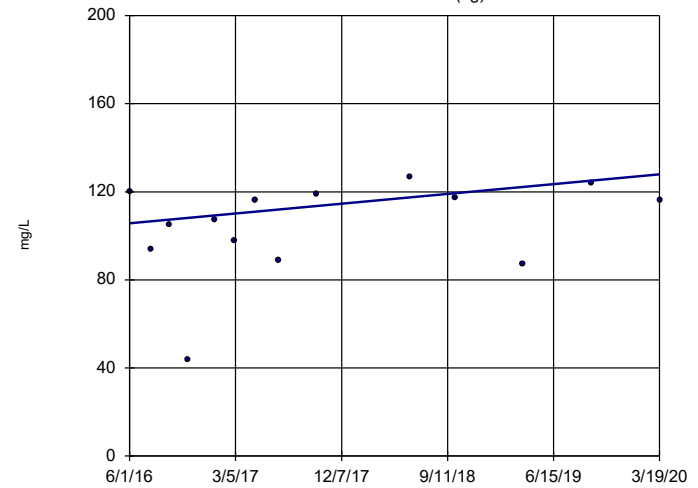


n = 14
 Slope = 1.727 units per year.
 Mann-Kendall statistic = 9
 critical = 44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)

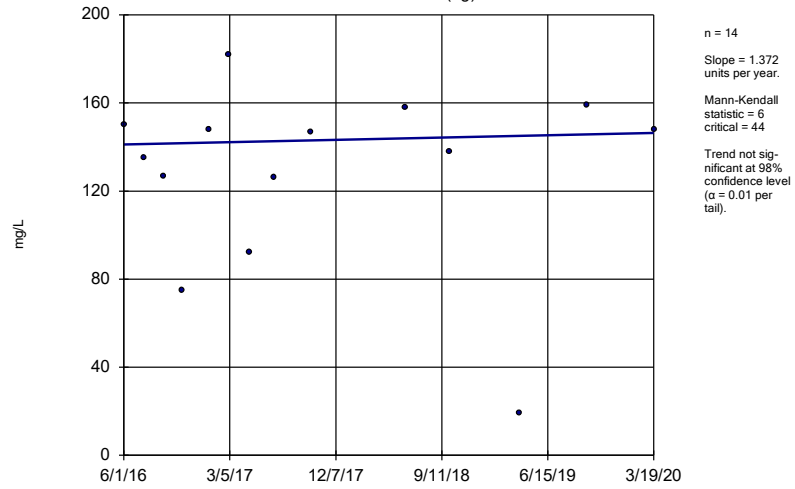


n = 14
 Slope = 5.856 units per year.
 Mann-Kendall statistic = 18
 critical = 44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3l (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------------------------|---------------|------------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Barium (mg/L) | YGWA-3D (bg) | -0.0008036 | -74 | -53 | Yes | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-26S | -0.00108 | -80 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-27I | -0.003166 | -59 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-27S | -0.003589 | -78 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-28S | -0.005296 | -59 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-29I | -0.00565 | -93 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-30I (bg) | -0.003763 | -111 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-27I | 0.003813 | 63 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | 0.206 | 64 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3D (bg) | -0.02531 | -61 | -58 | Yes | 17 | 5.882 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-30I (bg) | -0.007672 | -54 | -53 | Yes | 16 | 56.25 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-29I | -0.0005137 | -61 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-1D (bg) | -0.0008772 | -70 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-1I (bg) | -0.001096 | -76 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-3D (bg) | 0.0008155 | 70 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|----------------------|---------------------|-------------------|------------|------------|------------|-----------|-------------|------------|------------|-------------|-----------|
| Antimony (mg/L) | YGWA-14S (bg) | 0 | 9 | 35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-1D (bg) | 0 | 7 | 35 | No | 12 | 50 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-1I (bg) | 0 | -13 | -35 | No | 12 | 83.33 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-2I (bg) | -0.00002578 | -21 | -35 | No | 12 | 58.33 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-30I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-3D (bg) | 0 | 2 | 35 | No | 12 | 66.67 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWA-3I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-26I | 0 | -19 | -35 | No | 12 | 83.33 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-26S | 0 | -19 | -35 | No | 12 | 83.33 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-27I | 0 | -11 | -35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-27S | 0 | -11 | -35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-28I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-28S | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Antimony (mg/L) | YGWC-29I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-14S (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-1D (bg) | -0.0002127 | -51 | -53 | No | 16 | 12.5 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-1I (bg) | 0 | -13 | -53 | No | 16 | 93.75 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-2I (bg) | -0.0003521 | -40 | -53 | No | 16 | 12.5 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-30I (bg) | 0 | -13 | -53 | No | 16 | 93.75 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-3D (bg) | 0 | -11 | -53 | No | 16 | 87.5 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWA-3I (bg) | 0 | -4 | -53 | No | 16 | 81.25 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-26I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-26S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-27I | -0.00007048 | -39 | -53 | No | 16 | 50 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-27S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-28I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-28S | -0.00009908 | -51 | -53 | No | 16 | 50 | n/a | n/a | 0.02 | NP |
| Arsenic (mg/L) | YGWC-29I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-14S (bg) | -0.0004179 | -47 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-1D (bg) | 0.0001166 | 12 | 53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-1I (bg) | -0.0003284 | -20 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-2I (bg) | -0.0003414 | -44 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-30I (bg) | 0.0000627 | 18 | 53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-3D (bg) | -0.0008036 | -74 | -53 | Yes | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWA-3I (bg) | 0 | -4 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-26I | -0.001377 | -50 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-26S | -0.00108 | -80 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-27I | -0.003166 | -59 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-27S | -0.003589 | -78 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-28I | 0 | 0 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-28S | -0.005296 | -59 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Barium (mg/L) | YGWC-29I | -0.00565 | -93 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-14S (bg) | 0 | -21 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-1D (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-1I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-2I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-30I (bg) | 0 | -5 | -44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-3D (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWA-3I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-26I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-26S | -0.00001414 | -24 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-27I | 0.000003256 | 15 | 44 | No | 14 | 21.43 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-27S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-28I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Beryllium (mg/L) | YGWC-28S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|--|----------------------|------------------|-------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Beryllium (mg/L) | YGWC-29I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-14S (bg) | 0 | 3 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-1D (bg) | 0 | 5 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-1I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-2I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-30I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-3D (bg) | 0 | 5 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWA-3I (bg) | 0 | 5 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-26I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-26S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-27I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-27S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-28I | 0.00001653 | 24 | 44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-28S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Cadmium (mg/L) | YGWC-29I | 0.000006972 | 16 | 44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-14S (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-1D (bg) | 0 | -23 | -44 | No | 14 | 64.29 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-1I (bg) | 0 | -24 | -44 | No | 14 | 71.43 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-2I (bg) | 0 | -6 | -44 | No | 14 | 78.57 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-30I (bg) | 0 | 1 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-3D (bg) | 0 | 8 | 44 | No | 14 | 78.57 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWA-3I (bg) | 0 | -5 | -44 | No | 14 | 85.71 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-26I | -0.00005034 | -29 | -44 | No | 14 | 57.14 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-26S | -0.0000347 | -9 | -44 | No | 14 | 21.43 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-27I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-27S | 0 | -7 | -44 | No | 14 | 85.71 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-28I | 0 | -10 | -44 | No | 14 | 78.57 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-28S | 0 | -3 | -44 | No | 14 | 85.71 | n/a | n/a | 0.02 | NP |
| Chromium (mg/L) | YGWC-29I | 0 | 11 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-14S (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-1D (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-1I (bg) | -0.000004271 | -1 | -53 | No | 16 | 12.5 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-2I (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-30I (bg) | -0.003763 | -111 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-3D (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWA-3I (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-26I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-26S | -0.0002527 | -44 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-27I | 0.003813 | 63 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-27S | -0.00006569 | -38 | -53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-28I | 0 | 15 | 53 | No | 16 | 93.75 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-28S | 0.00003557 | 17 | 53 | No | 16 | 6.25 | n/a | n/a | 0.02 | NP |
| Cobalt (mg/L) | YGWC-29I | 0 | 40 | 53 | No | 16 | 75 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-14S (bg) | -0.05778 | -22 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-1D (bg) | 0.1682 | 51 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-1I (bg) | 0.08289 | 14 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-2I (bg) | 0.08716 | 28 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-30I (bg) | 0.09857 | 31 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-3D (bg) | 0.2698 | 38 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWA-3I (bg) | 0.3365 | 43 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | 0.3153 | 45 | 48 | No | 15 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26S | 0.06116 | 34 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27I | 0.4428 | 40 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27S | 0.1318 | 40 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | 0.206 | 64 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

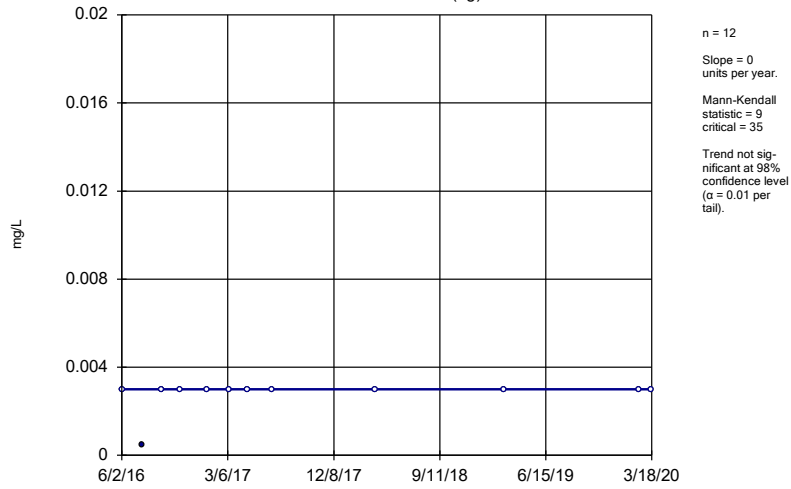
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------------------------|----------------------|-------------------|------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Combined Radium 226 + 228 (pCi/L) | YGWC-28S | 0.1341 | 34 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Combined Radium 226 + 228 (pCi/L) | YGWC-29I | -0.01224 | -2 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-14S (bg) | 0 | 14 | 58 | No | 17 | 94.12 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-1D (bg) | -0.004818 | -21 | -58 | No | 17 | 35.29 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-1I (bg) | 0 | 17 | 58 | No | 17 | 88.24 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-2I (bg) | 0 | 6 | 58 | No | 17 | 23.53 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-30I (bg) | 0 | 14 | 58 | No | 17 | 94.12 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3D (bg) | -0.02531 | -61 | -58 | Yes | 17 | 5.882 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWA-3I (bg) | -0.01022 | -25 | -58 | No | 17 | 29.41 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-26I | 0 | -3 | -58 | No | 17 | 47.06 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-26S | 0 | 13 | 58 | No | 17 | 64.71 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-27I | 0 | 11 | 58 | No | 17 | 70.59 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-27S | -0.03338 | -38 | -58 | No | 17 | 17.65 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-28I | -0.0009203 | -14 | -58 | No | 17 | 29.41 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-28S | -0.02391 | -30 | -58 | No | 17 | 11.76 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | YGWC-29I | -0.005777 | -36 | -58 | No | 17 | 41.18 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-14S (bg) | 0 | 1 | 35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-1D (bg) | 0 | -4 | -35 | No | 12 | 58.33 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-1I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-2I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-30I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-3D (bg) | 0 | 14 | 35 | No | 12 | 58.33 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWA-3I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-26I | 0 | -11 | -35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-26S | 0 | -13 | -35 | No | 12 | 83.33 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-27I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-27S | 0 | -14 | -35 | No | 12 | 75 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-28I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-28S | 0 | -22 | -35 | No | 12 | 75 | n/a | n/a | 0.02 | NP |
| Lead (mg/L) | YGWC-29I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-14S (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-1D (bg) | -0.001625 | -47 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-1I (bg) | -0.00007918 | -41 | -53 | No | 16 | 18.75 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-2I (bg) | -0.0005677 | -53 | -53 | No | 16 | 12.5 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-30I (bg) | -0.007672 | -54 | -53 | Yes | 16 | 56.25 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-3D (bg) | 0.0005207 | 37 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWA-3I (bg) | 0.0005239 | 27 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-26I | 0.0001336 | 40 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-26S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-27I | -0.00005456 | -4 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-27S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-28I | -0.00009645 | -34 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-28S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Lithium (mg/L) | YGWC-29I | -0.0005137 | -61 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-14S (bg) | 0 | -6 | -39 | No | 13 | 92.31 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-1D (bg) | 0 | -15 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-1I (bg) | 0 | -6 | -39 | No | 13 | 92.31 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-2I (bg) | 0 | 0 | 39 | No | 13 | 100 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-30I (bg) | 0 | -13 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-3D (bg) | 0 | -13 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWA-3I (bg) | 0 | -13 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-26I | 0 | -14 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-26S | 0 | -13 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-27I | 0 | -15 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-27S | 0 | -15 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

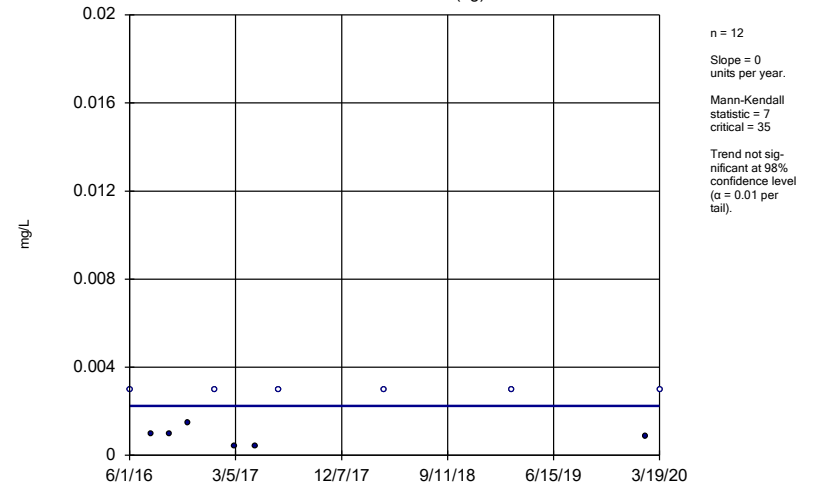
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|--------------------------|---------------------|-------------------|------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Mercury (mg/L) | YGWC-28I | 0 | -6 | -39 | No | 13 | 92.31 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-28S | 0 | -6 | -39 | No | 13 | 92.31 | n/a | n/a | 0.02 | NP |
| Mercury (mg/L) | YGWC-29I | 0 | -15 | -39 | No | 13 | 84.62 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-14S (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-1D (bg) | -0.0008772 | -70 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-1I (bg) | -0.001096 | -76 | -53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-2I (bg) | 0.00004235 | 4 | 53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-30I (bg) | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-3D (bg) | 0.0008155 | 70 | 53 | Yes | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWA-3I (bg) | -0.0001073 | -6 | -53 | No | 16 | 0 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-26I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-26S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-27I | 0 | -3 | -53 | No | 16 | 62.5 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-27S | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-28I | 0 | -5 | -53 | No | 16 | 56.25 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-28S | 0 | 17 | 53 | No | 16 | 87.5 | n/a | n/a | 0.02 | NP |
| Molybdenum (mg/L) | YGWC-29I | 0 | 0 | 53 | No | 16 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-14S (bg) | 0 | 35 | 44 | No | 14 | 64.29 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-1D (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-1I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-2I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-30I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-3D (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWA-3I (bg) | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-26I | 0 | -5 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-26S | 0 | 35 | 44 | No | 14 | 71.43 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-27I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-27S | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-28I | 0 | 3 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-28S | 0 | 9 | 44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Selenium (mg/L) | YGWC-29I | 0 | 0 | 44 | No | 14 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-14S (bg) | 0 | -9 | -35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-1D (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-1I (bg) | 0 | -9 | -35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-2I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-30I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-3D (bg) | 0 | 9 | 35 | No | 12 | 91.67 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWA-3I (bg) | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-26I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-26S | 0 | -21 | -35 | No | 12 | 83.33 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-27I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-27S | 0 | -5 | -35 | No | 12 | 50 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-28I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-28S | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |
| Thallium (mg/L) | YGWC-29I | 0 | 0 | 35 | No | 12 | 100 | n/a | n/a | 0.02 | NP |

Sen's Slope Estimator YGWA-14S (bg)



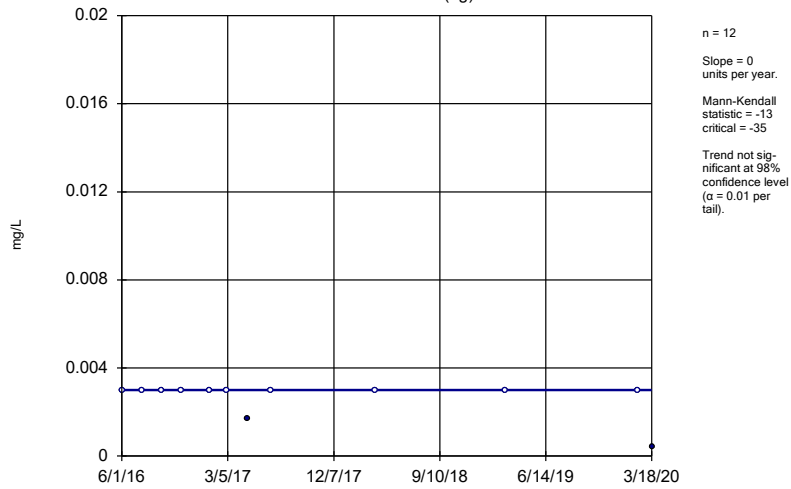
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



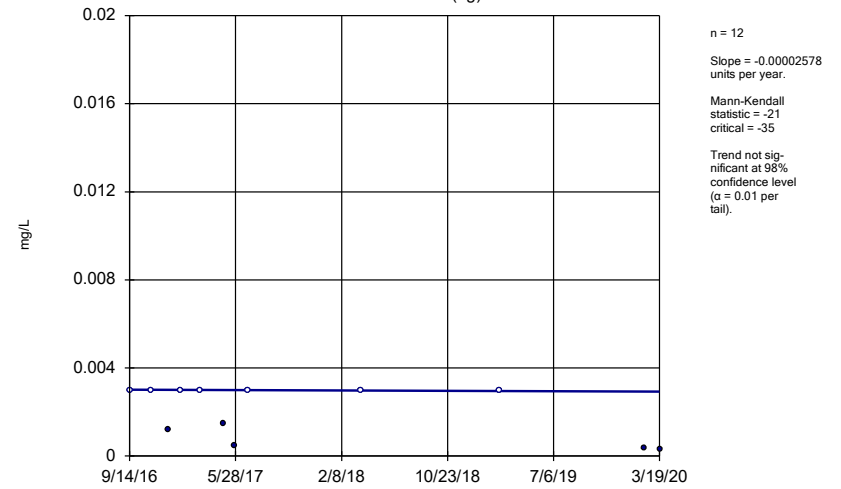
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



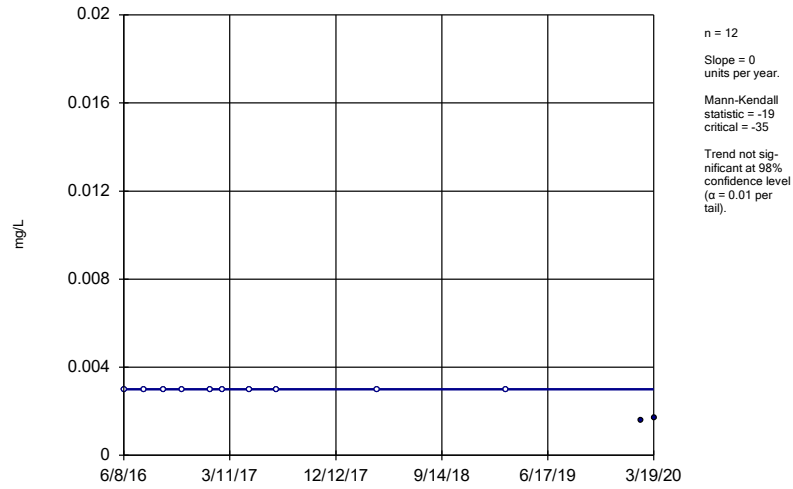
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-2I (bg)



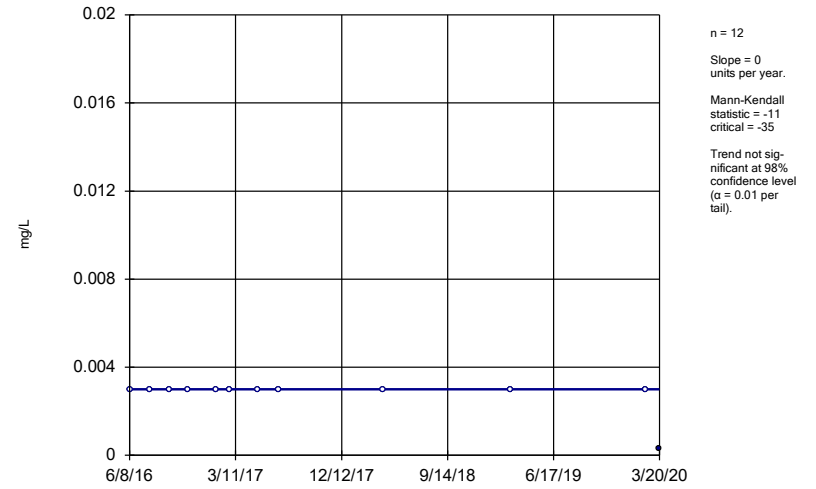
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



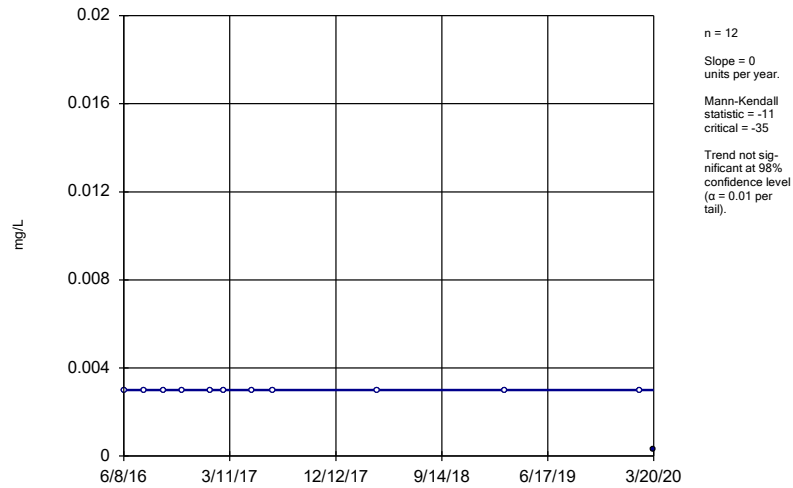
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



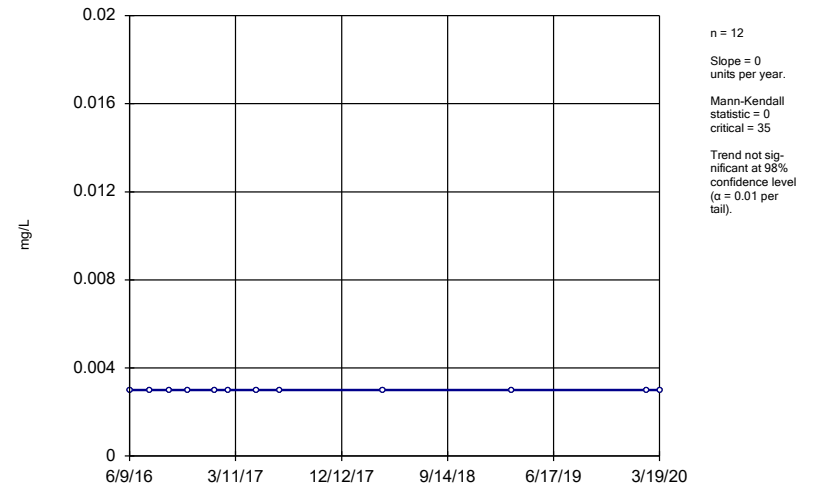
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



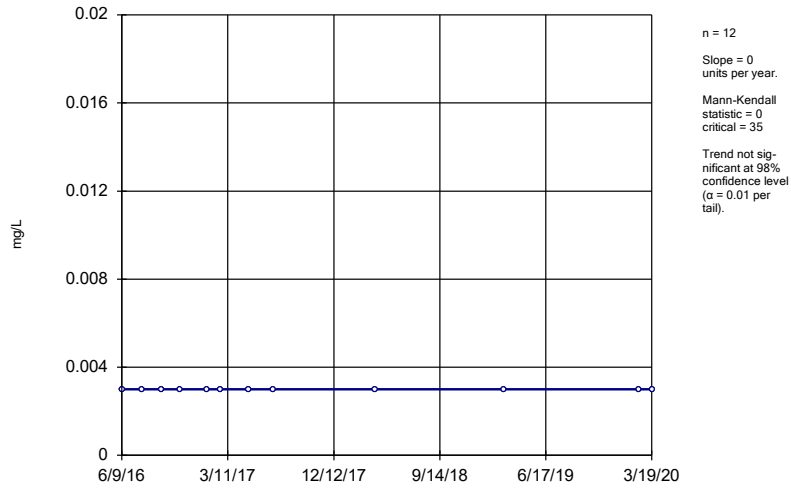
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



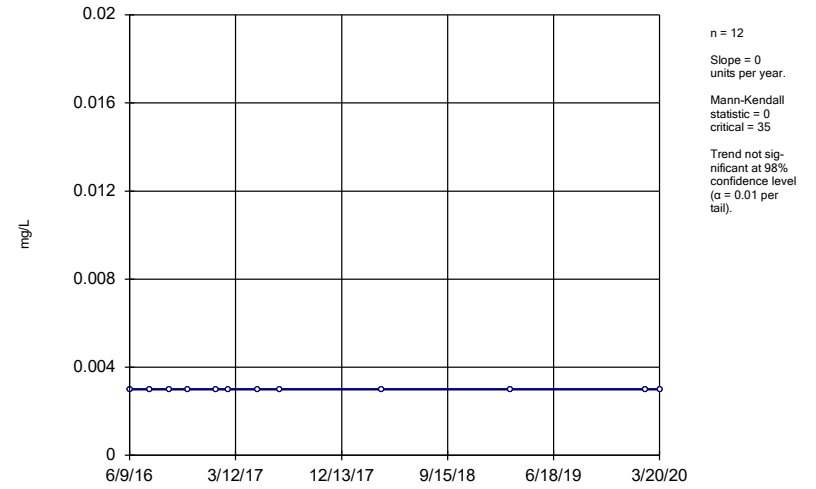
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28S



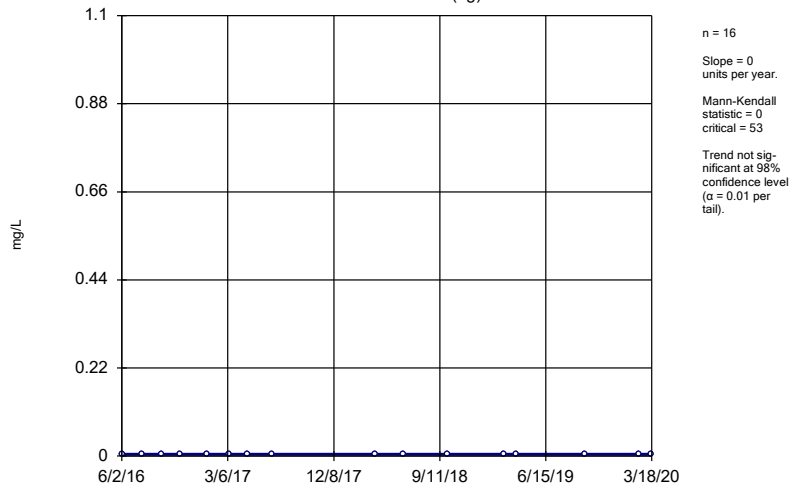
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-29I



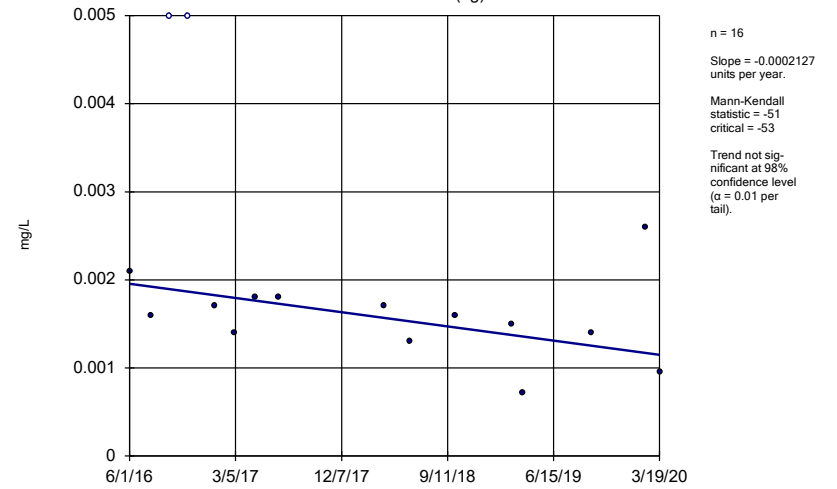
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-14S (bg)



Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

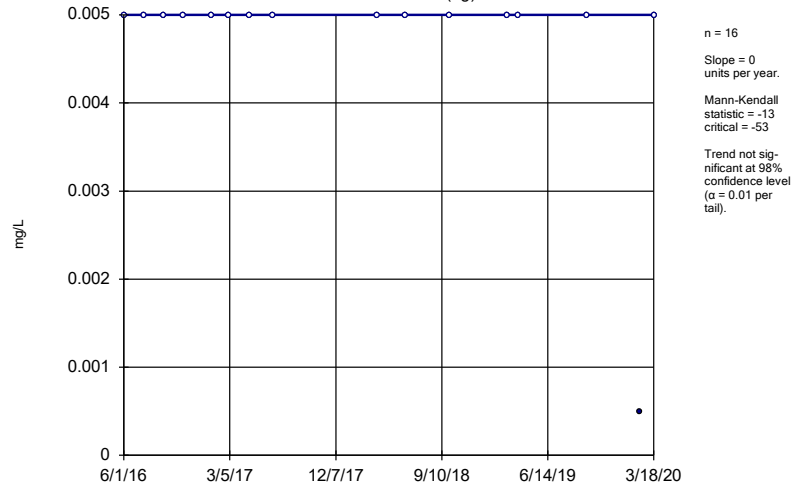
Sen's Slope Estimator
YGWA-1D (bg)



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

Sen's Slope Estimator

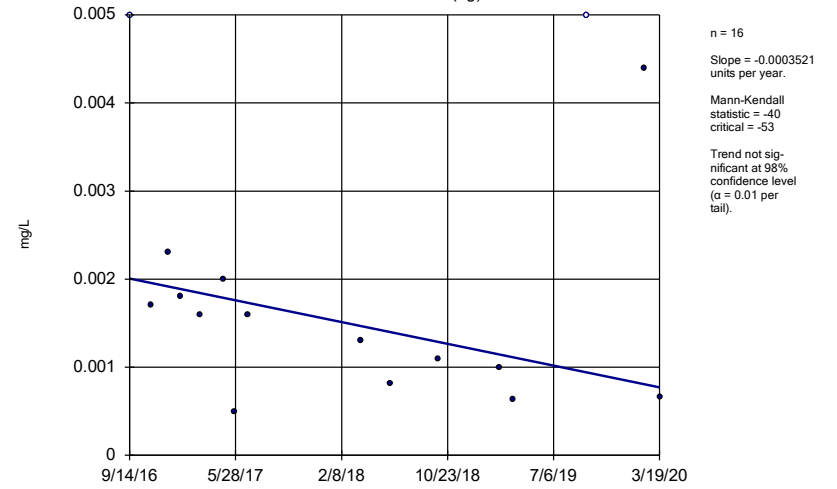
YGWA-1I (bg)



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

Sen's Slope Estimator

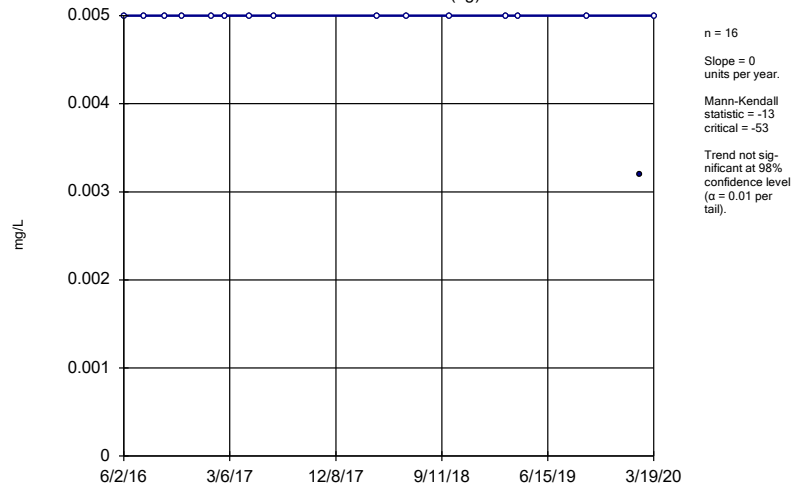
YGWA-2I (bg)



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

Sen's Slope Estimator

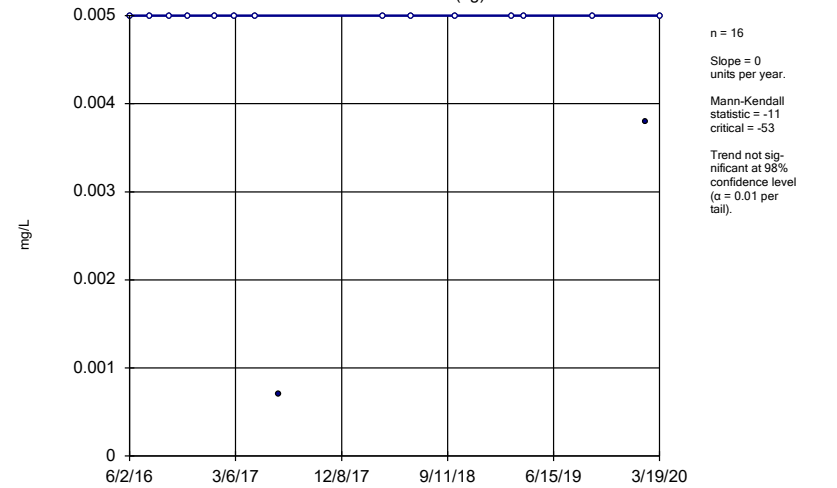
YGWA-30I (bg)



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

Sen's Slope Estimator

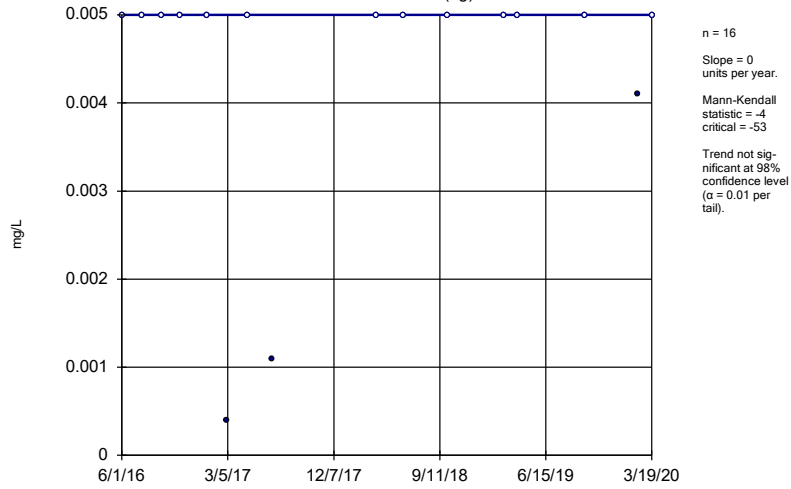
YGWA-3D (bg)



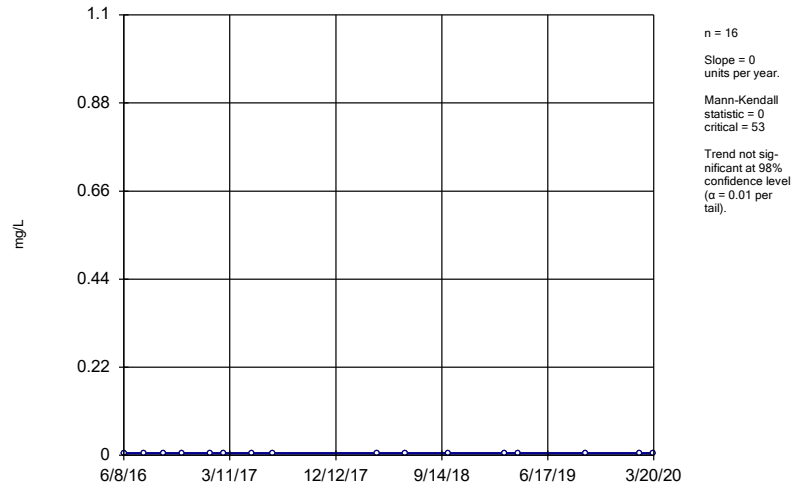
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

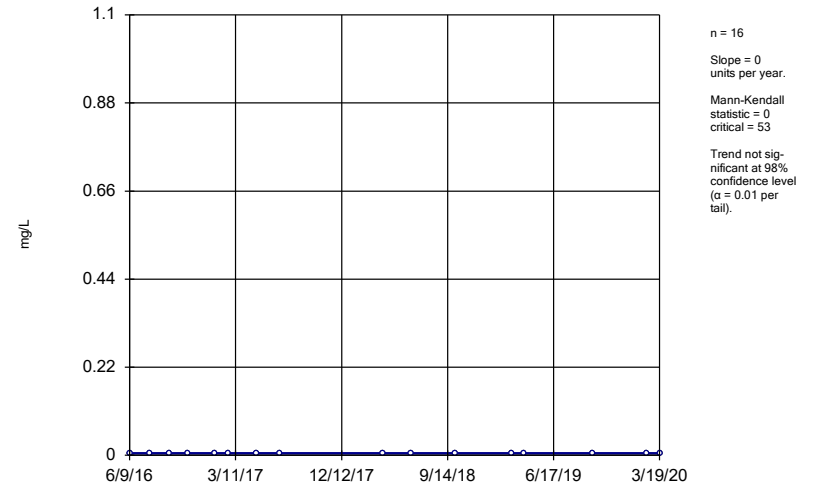


Sen's Slope Estimator YGWC-27S



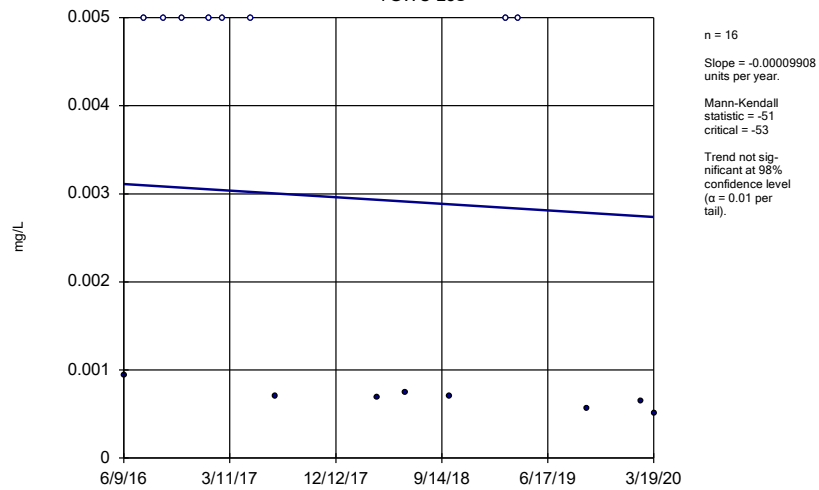
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



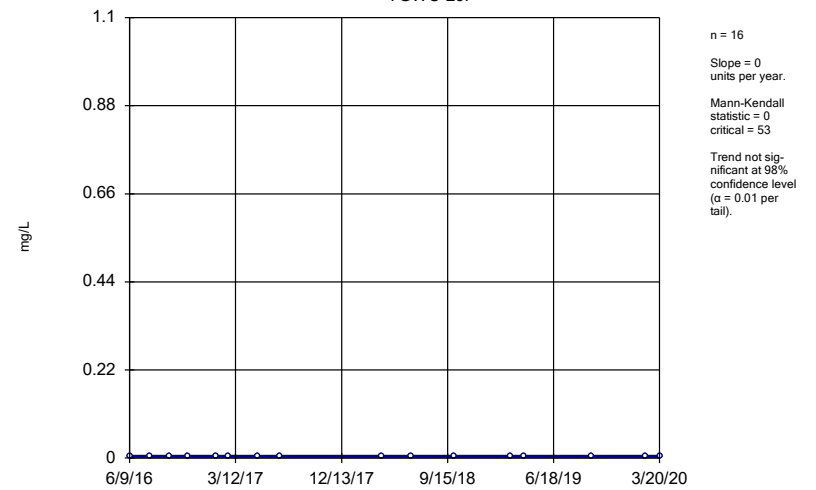
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

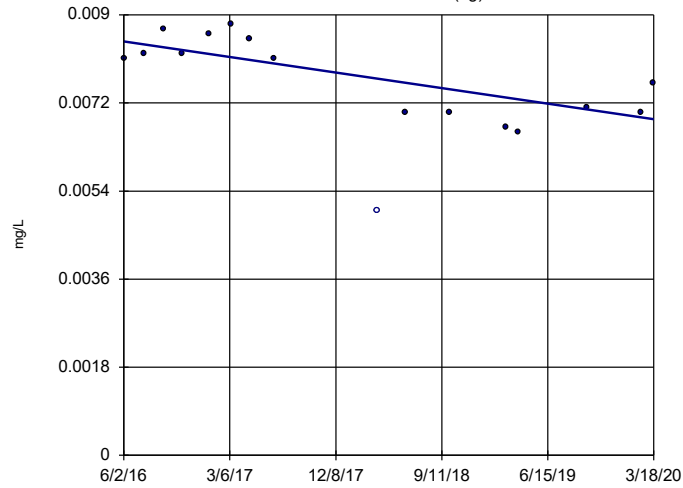
Sen's Slope Estimator YGWC-29I



Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-14S (bg)

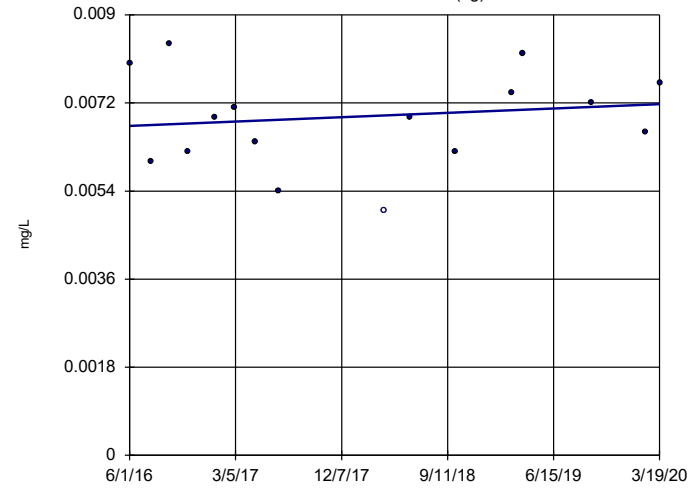


n = 16
Slope = -0.0004179
units per year.
Mann-Kendall
statistic = -47
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Barium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)

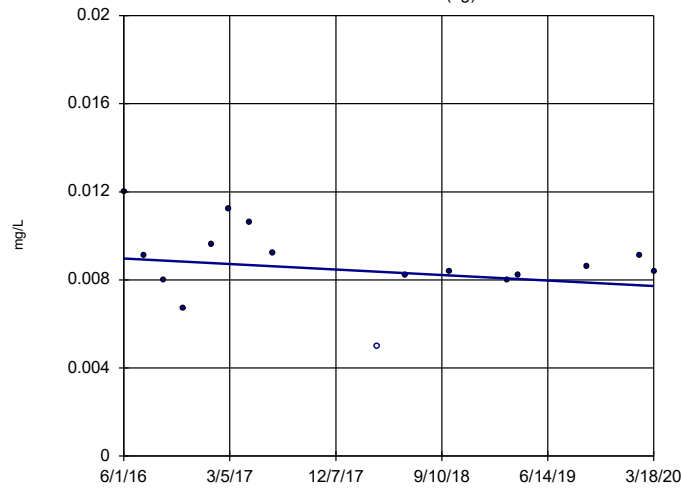


n = 16
Slope = 0.0001166
units per year.
Mann-Kendall
statistic = 12
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Barium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-11 (bg)

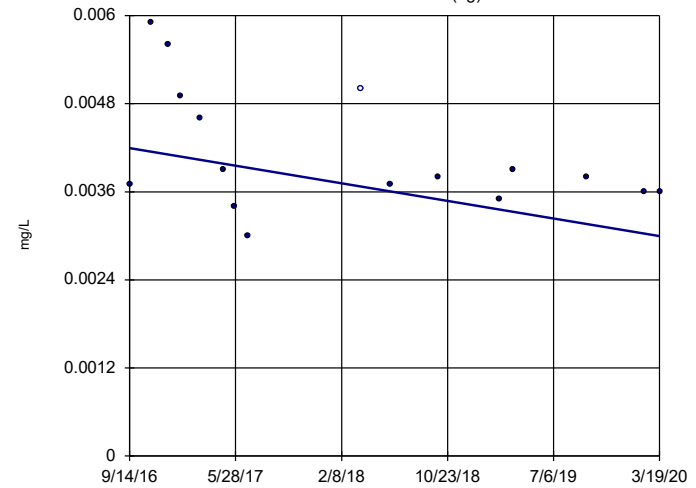


n = 16
Slope = -0.0003284
units per year.
Mann-Kendall
statistic = -20
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Barium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-2I (bg)

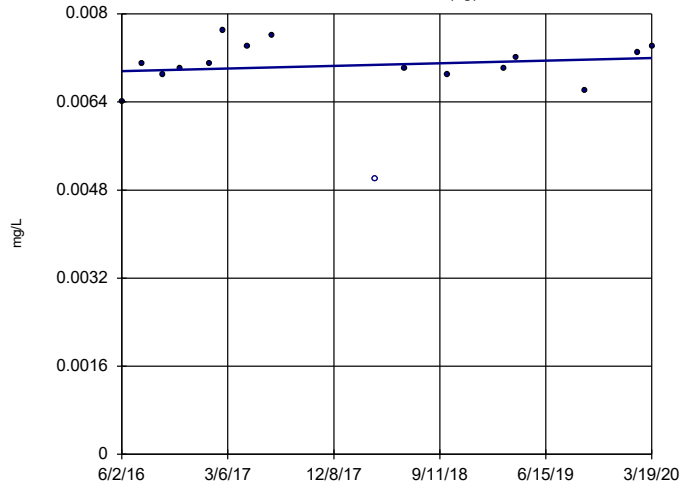


n = 16
Slope = -0.0003414
units per year.
Mann-Kendall
statistic = -44
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Barium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

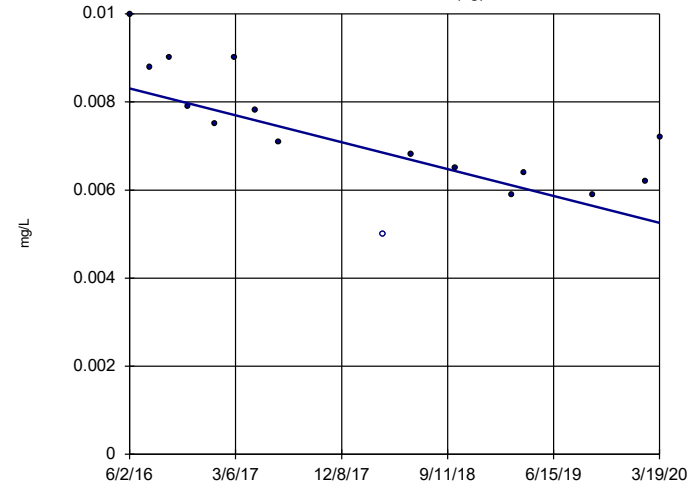


n = 16
Slope = 0.0000627
units per year.
Mann-Kendall
statistic = 18
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

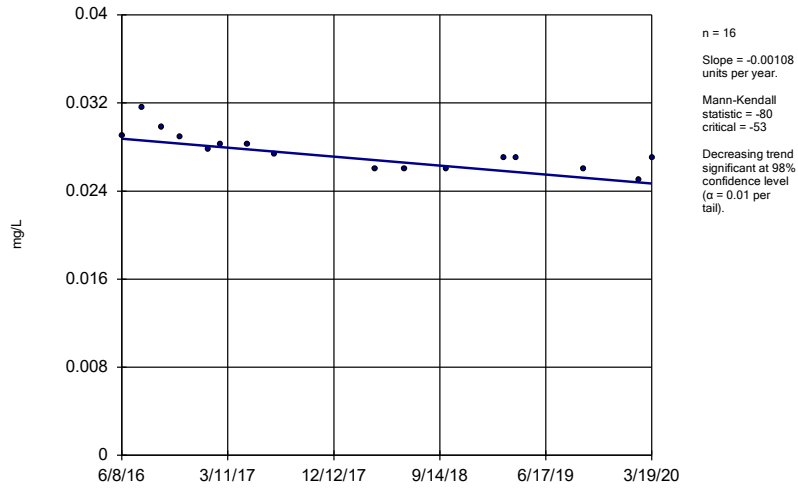
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

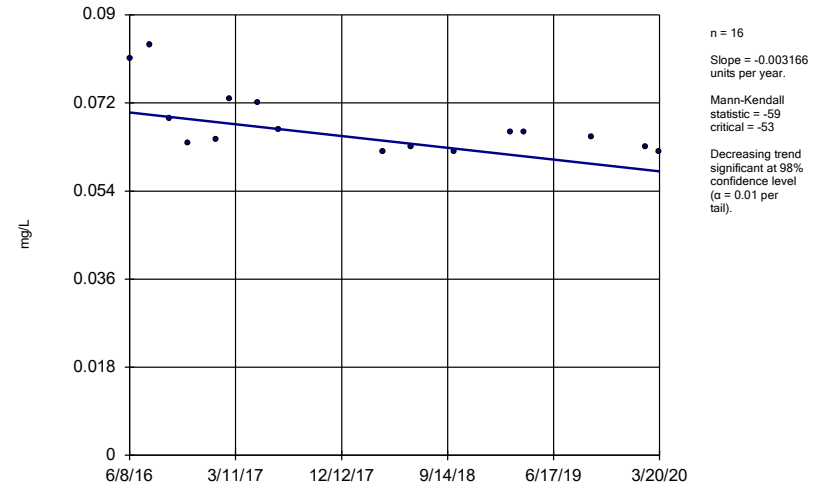


Sen's Slope Estimator YGWC-26S



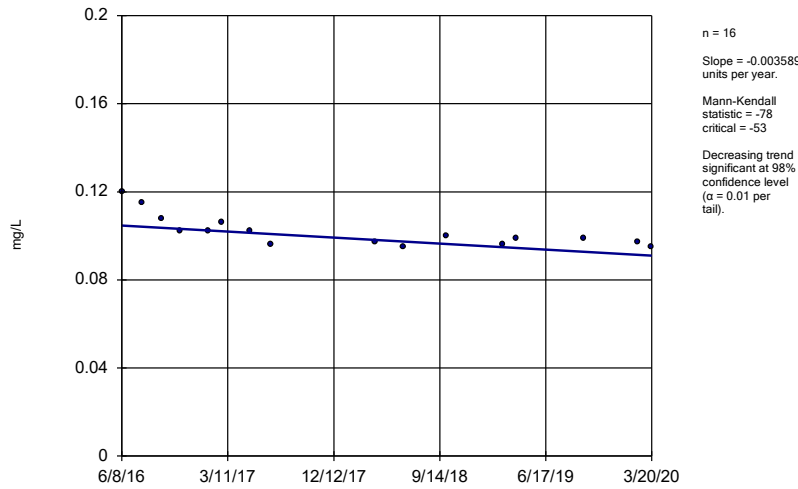
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



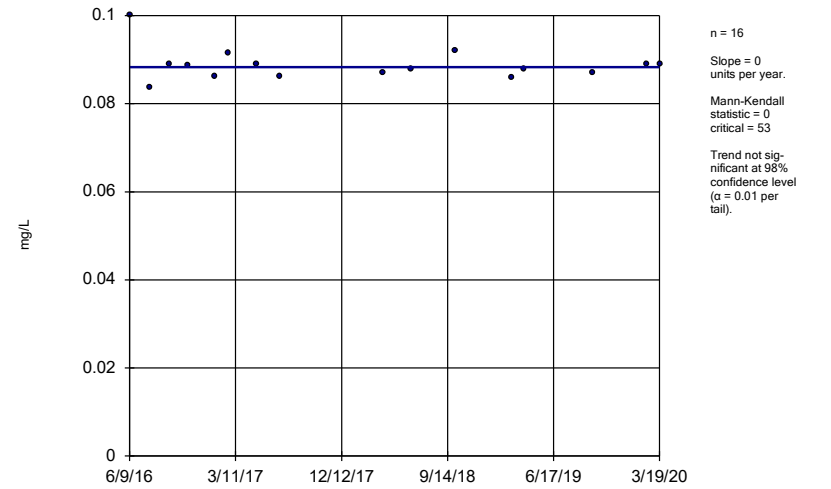
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



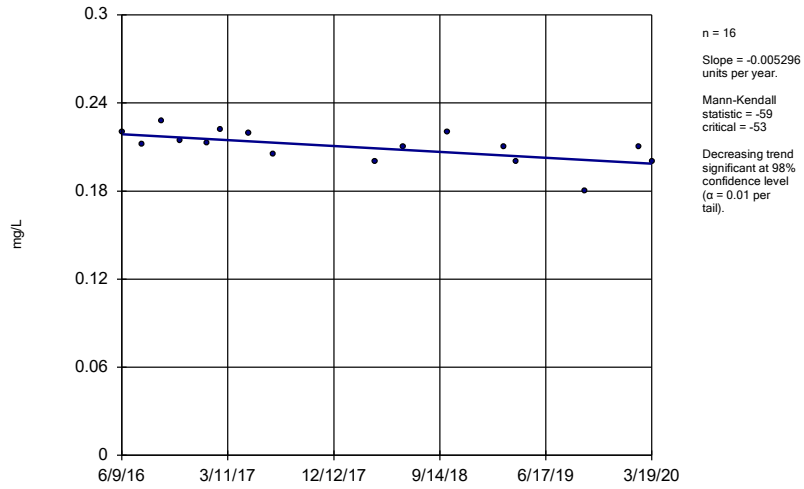
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I

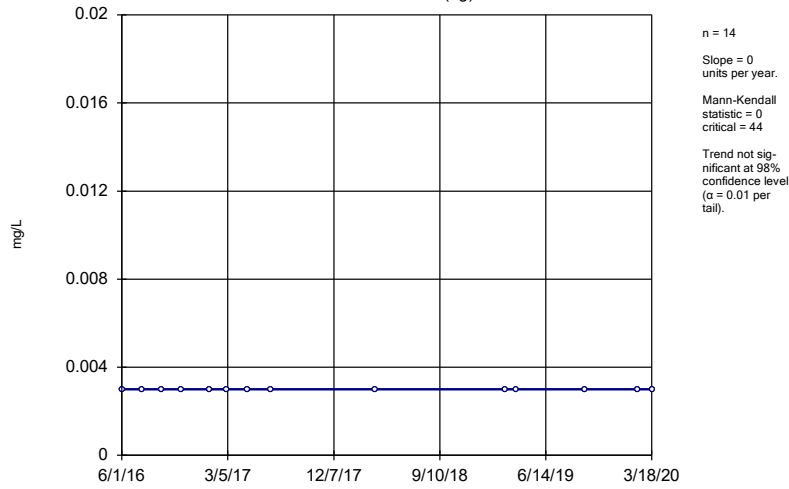


Constituent: Barium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28S

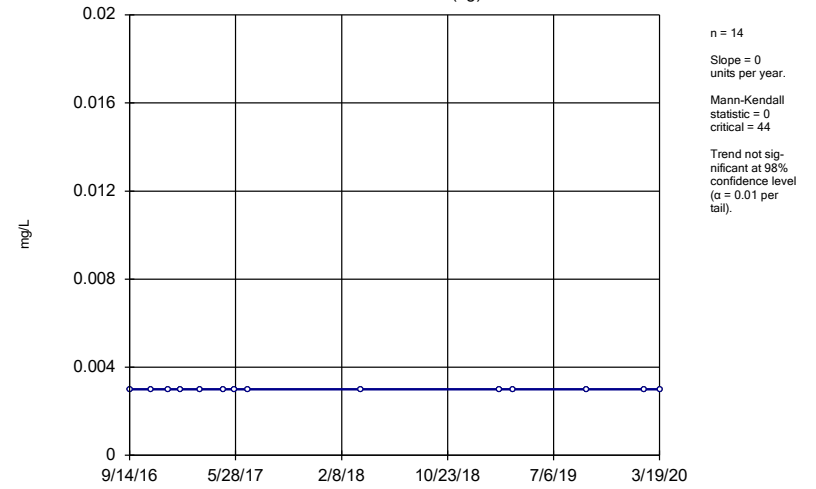


Sen's Slope Estimator YGWA-11 (bg)



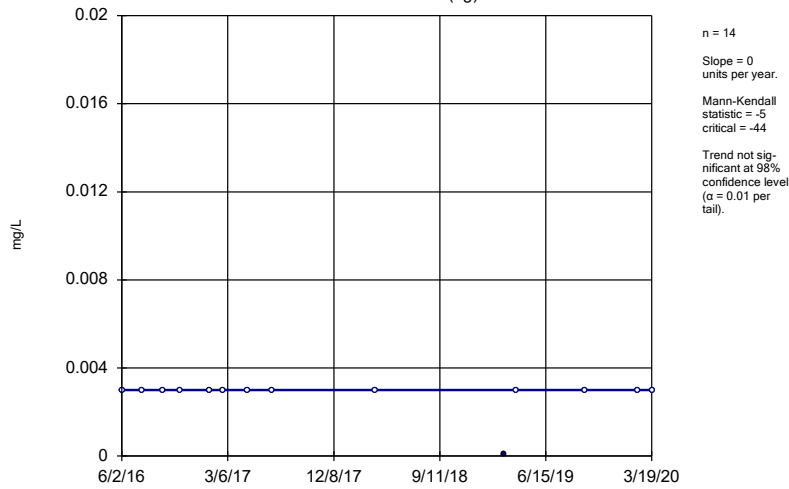
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-21 (bg)



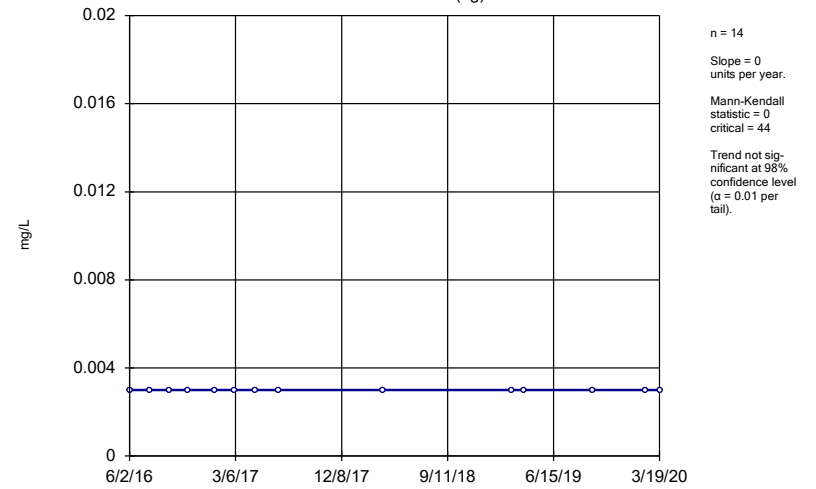
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



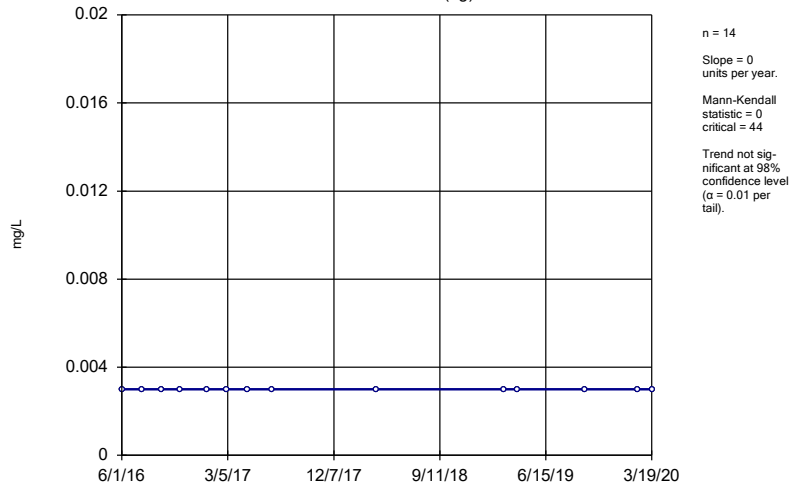
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



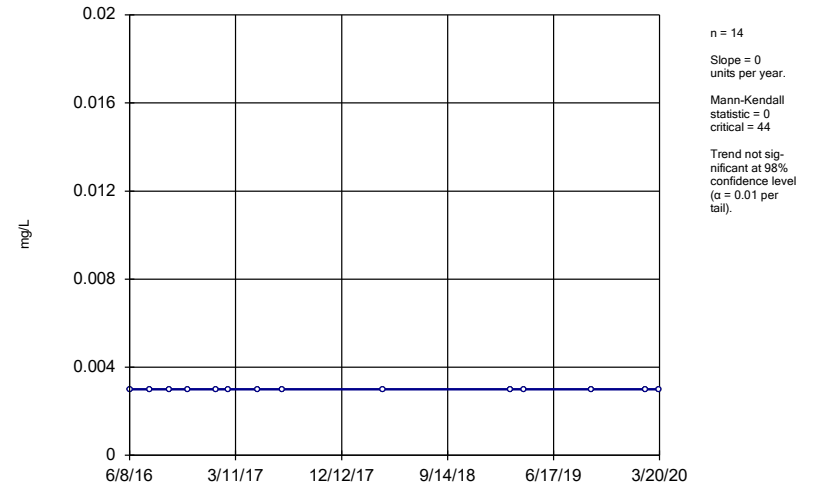
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



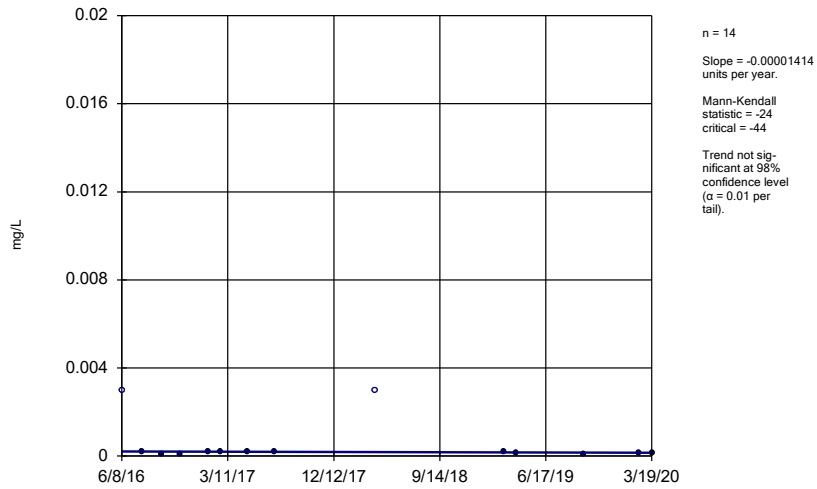
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I



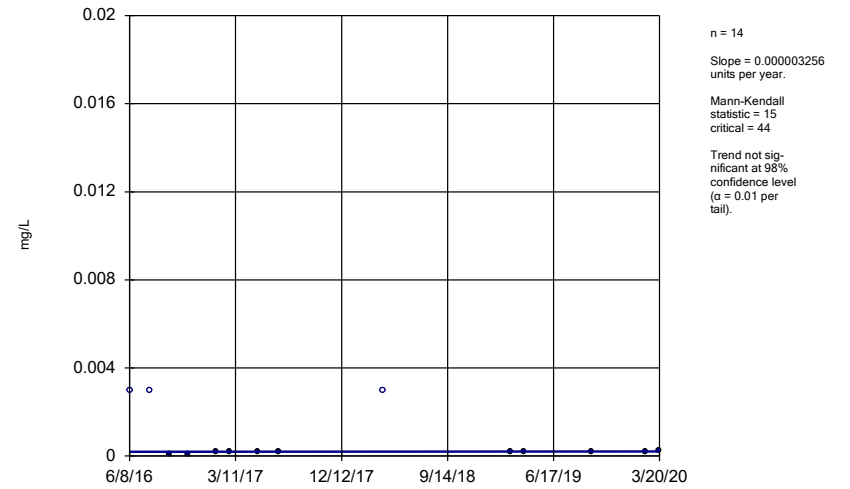
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



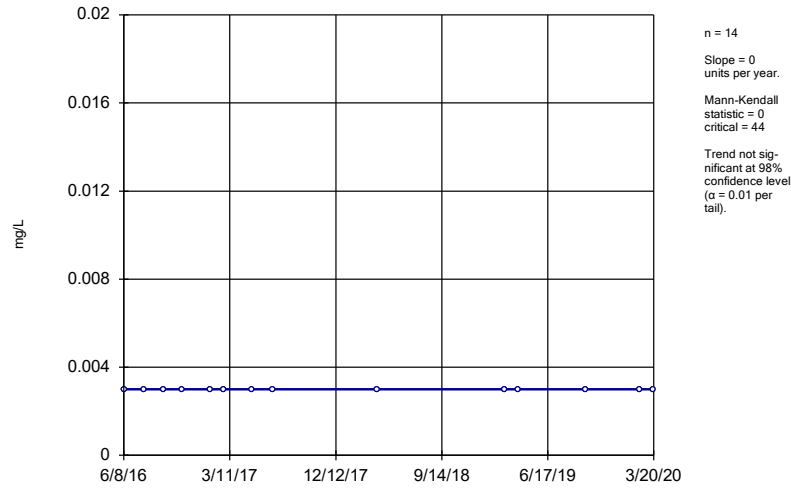
Constituent: Beryllium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



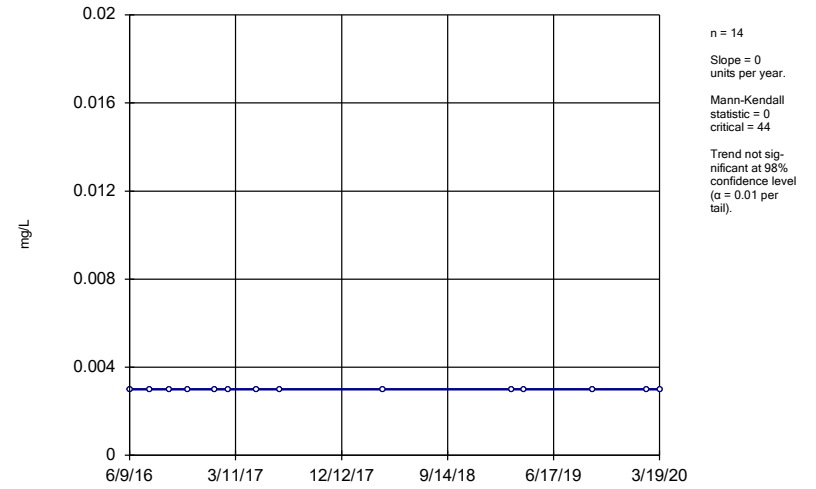
Constituent: Beryllium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



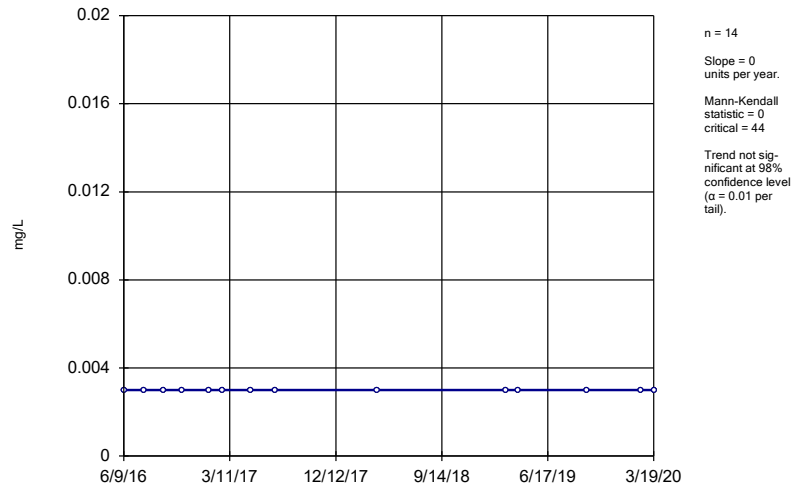
Constituent: Beryllium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



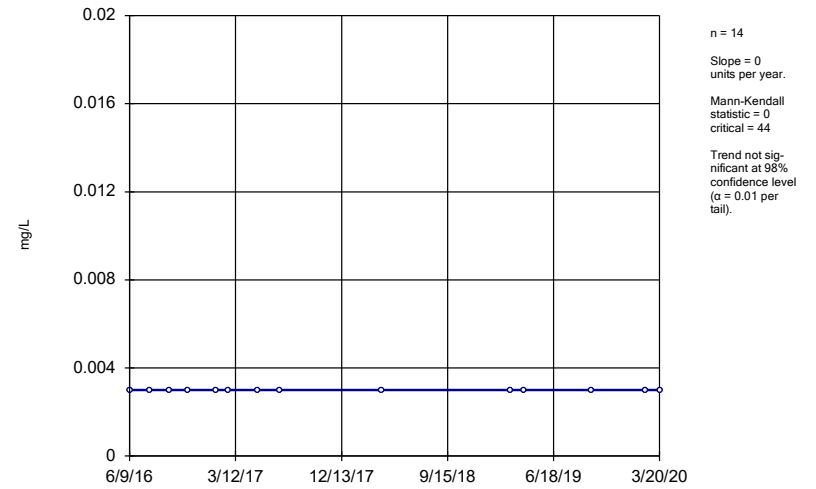
Constituent: Beryllium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



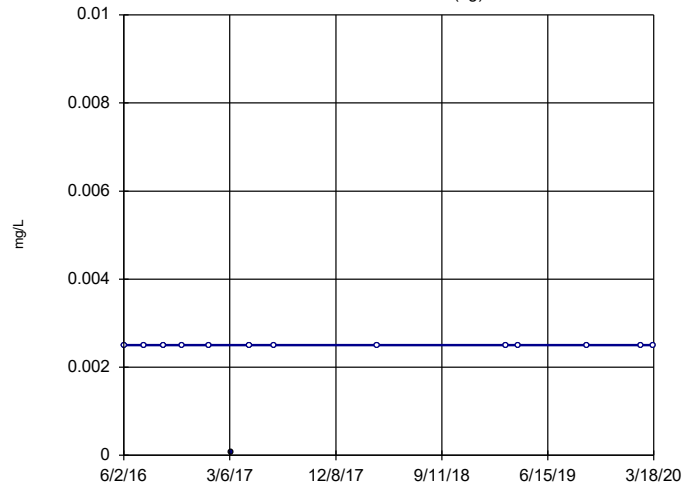
Constituent: Beryllium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



Constituent: Beryllium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

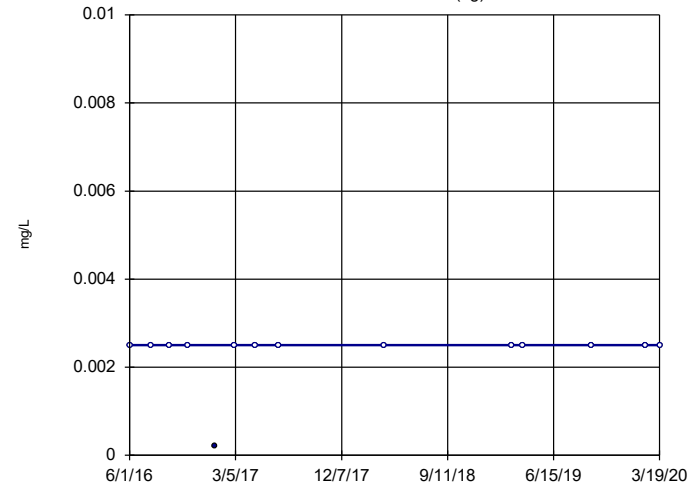
Sen's Slope Estimator YGWA-14S (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 3
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

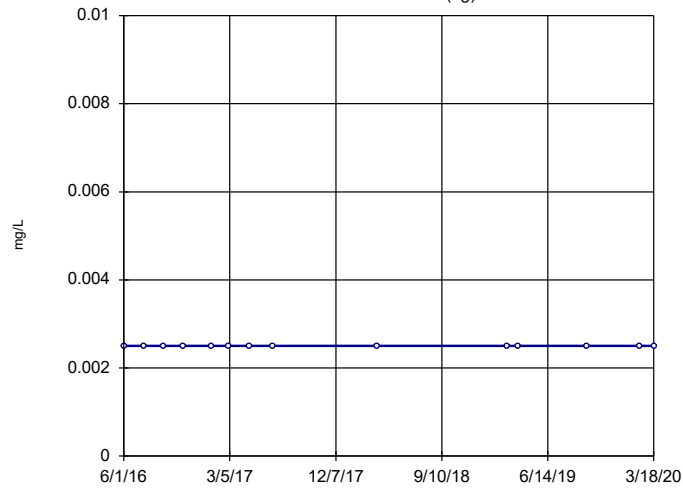
Sen's Slope Estimator YGWA-1D (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 5
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

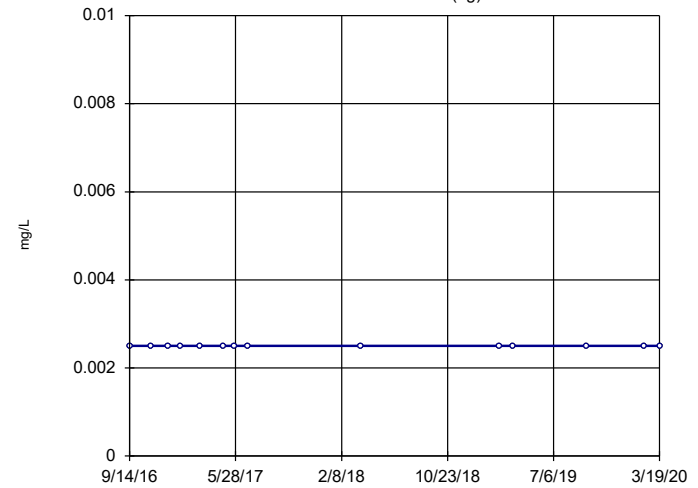
Sen's Slope Estimator YGWA-11 (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

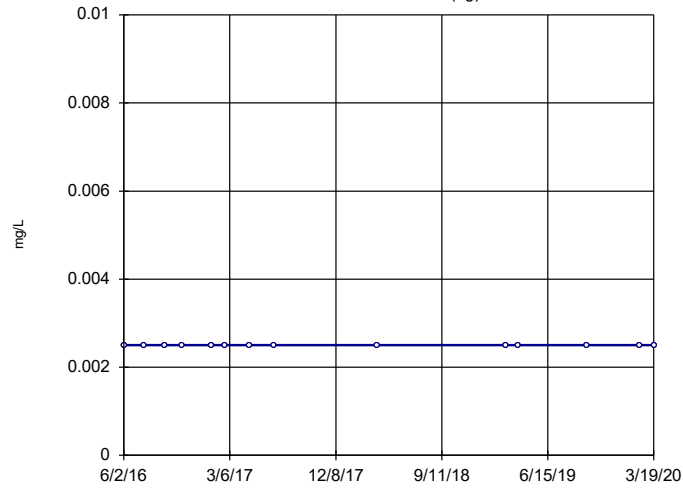
Sen's Slope Estimator YGWA-2I (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

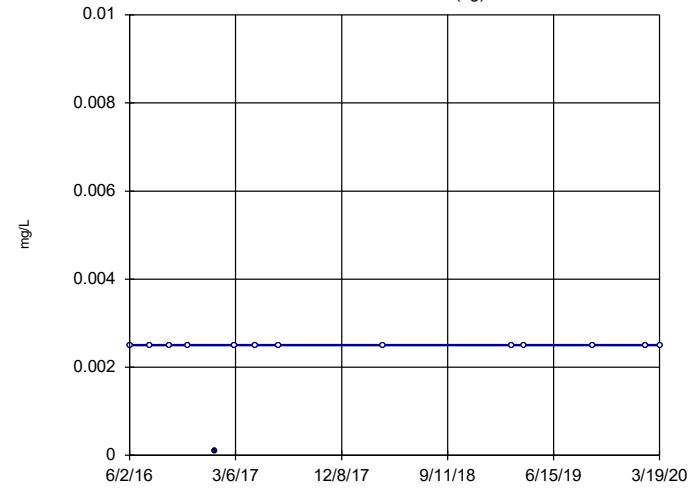
Sen's Slope Estimator YGWA-30I (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

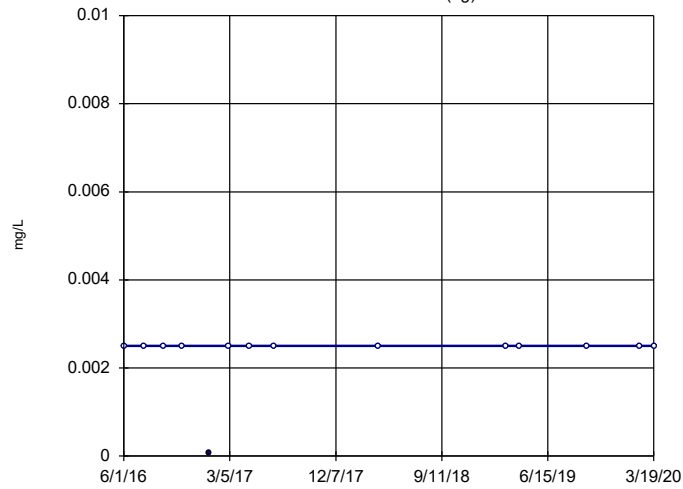
Sen's Slope Estimator YGWA-3D (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 5
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

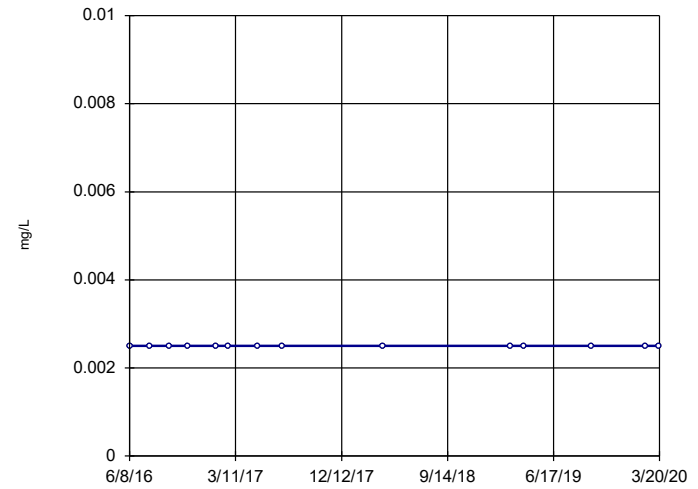
Sen's Slope Estimator YGWA-3I (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 5
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

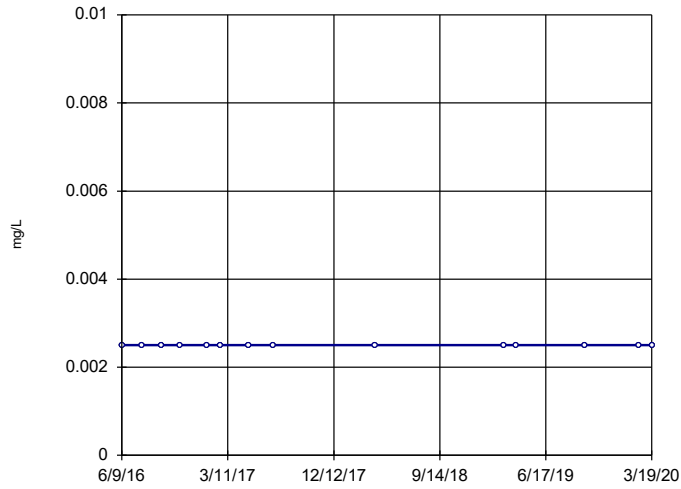
Sen's Slope Estimator YGWC-26I



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

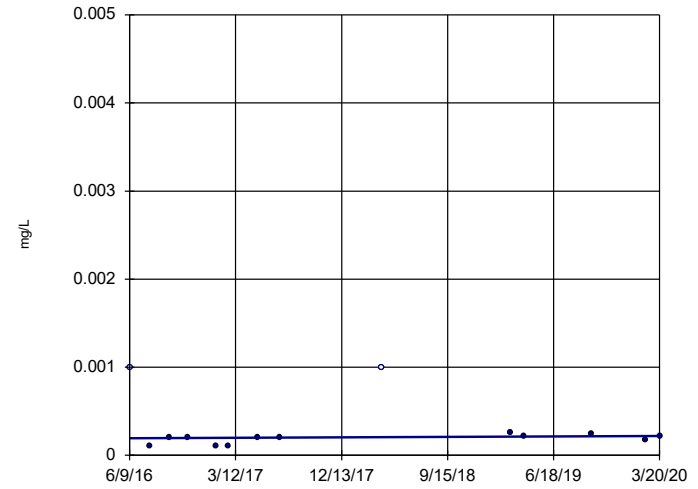
Sen's Slope Estimator
YGWC-28S



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

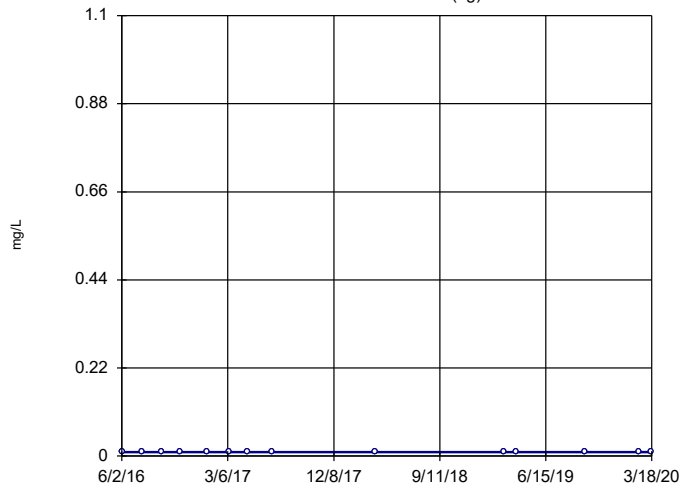
Sen's Slope Estimator
YGWC-29I



n = 14
Slope = 0.000006972
units per year.
Mann-Kendall
statistic = 16
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

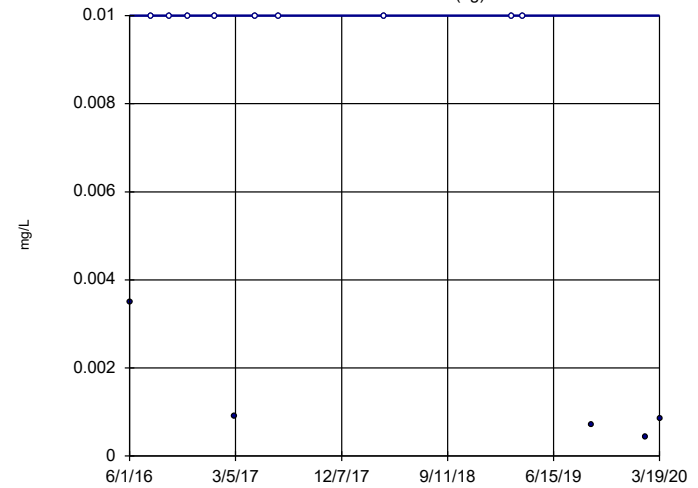
Sen's Slope Estimator
YGWA-14S (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-1D (bg)

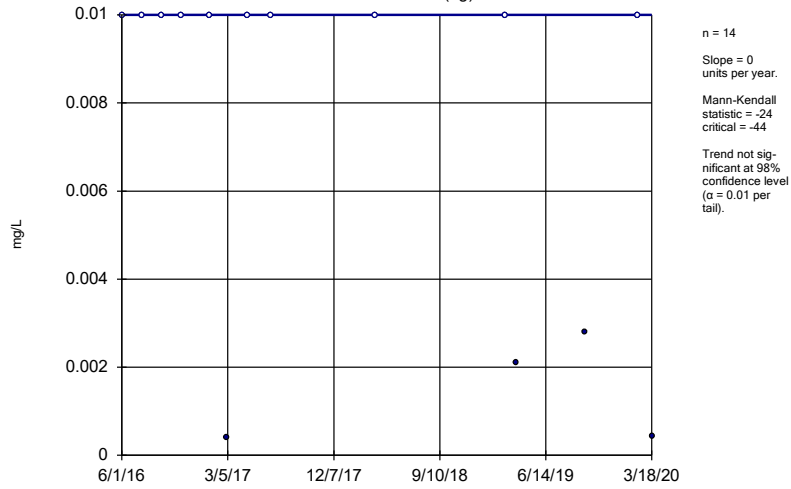


n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = -23
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

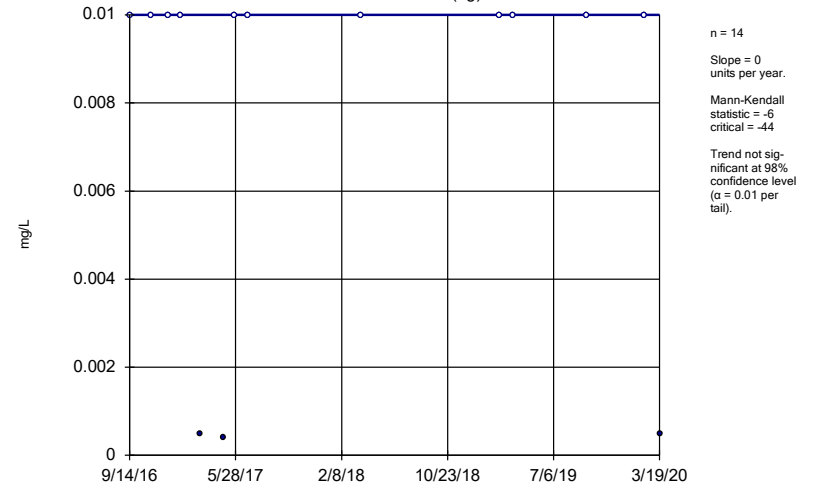
YGWA-11 (bg)



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

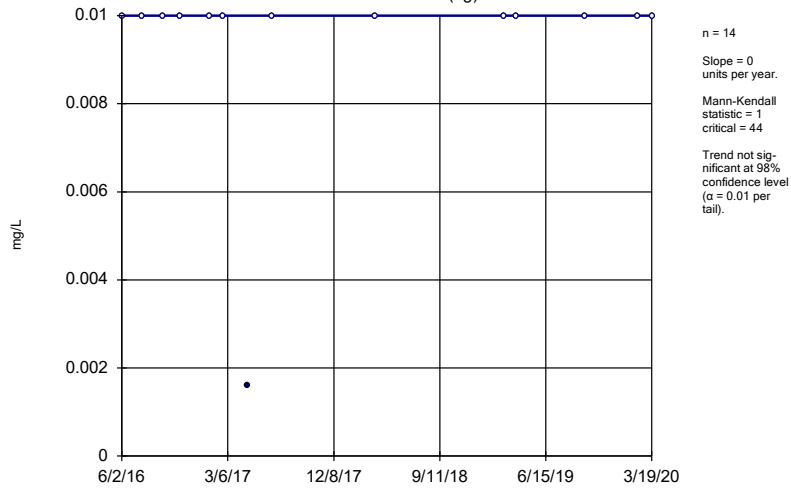
YGWA-21 (bg)



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

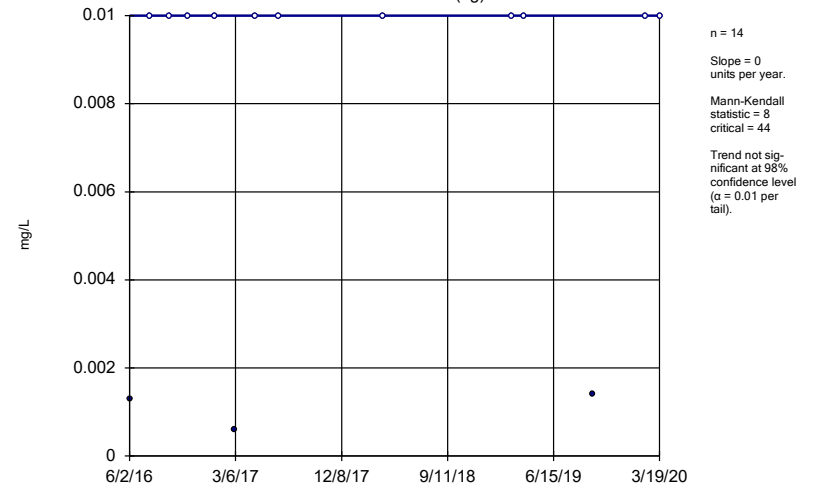
YGWA-30I (bg)



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

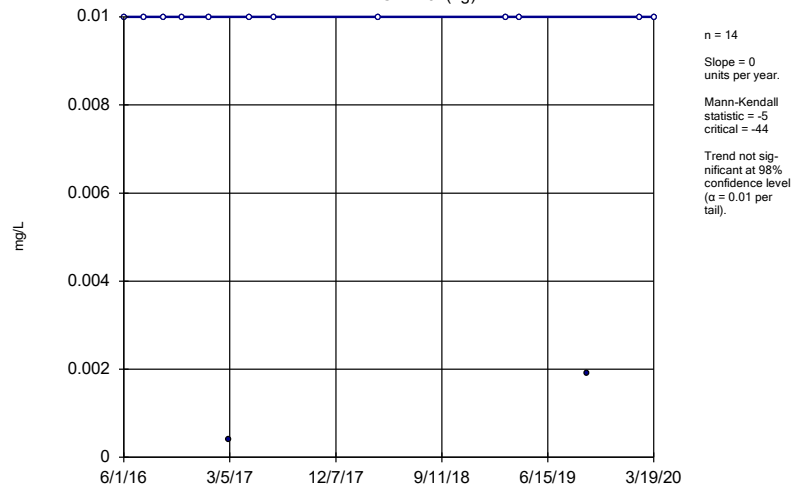
YGWA-3D (bg)



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

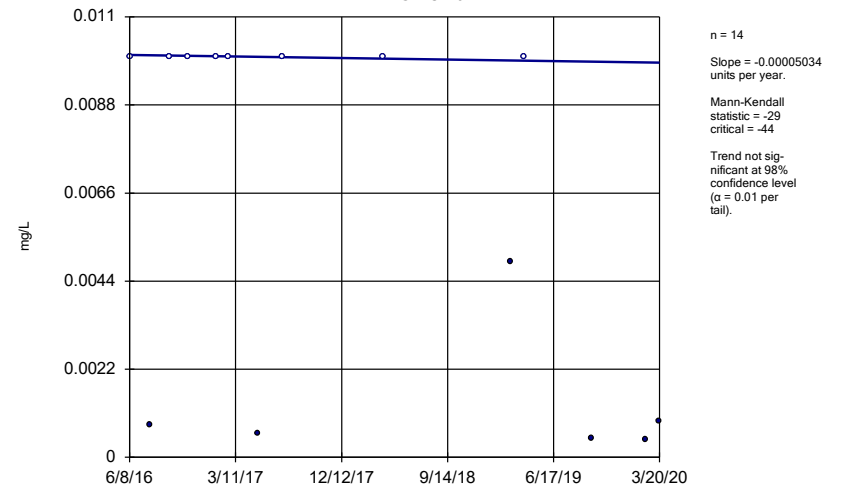
YGWA-3I (bg)



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

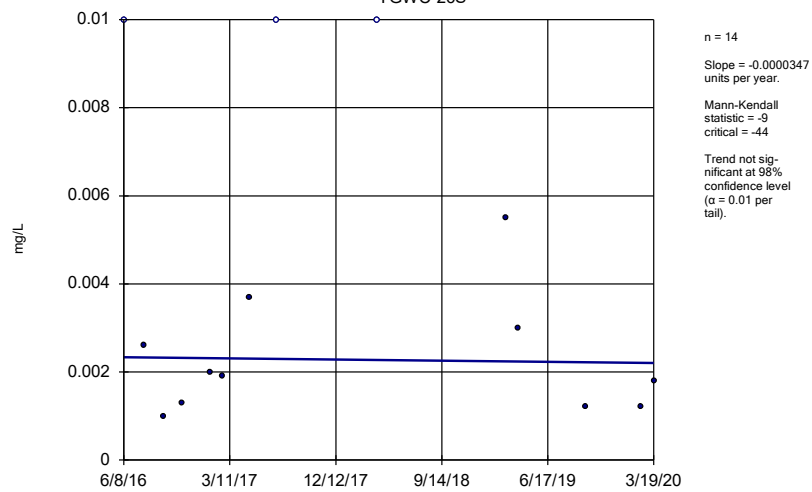
YGWC-26I



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

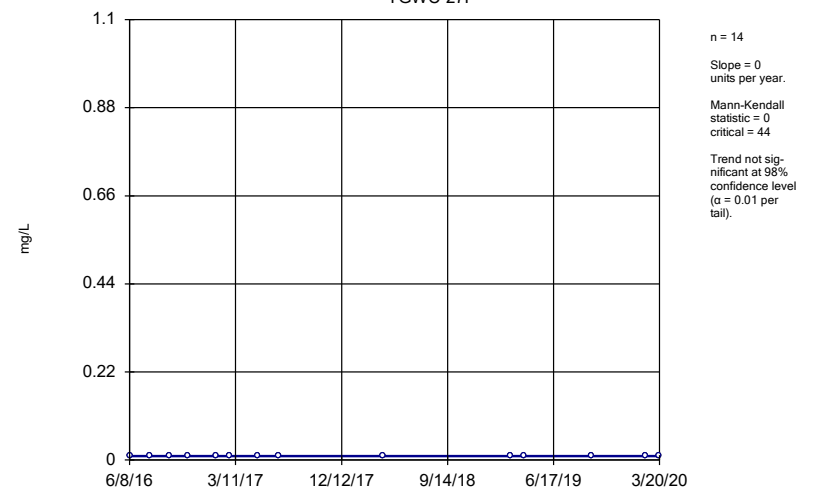
YGWC-26S



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

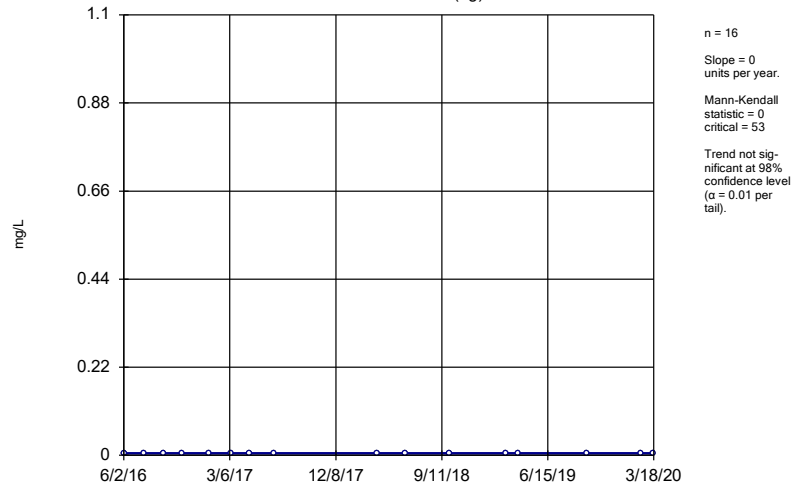
Sen's Slope Estimator

YGWC-27I



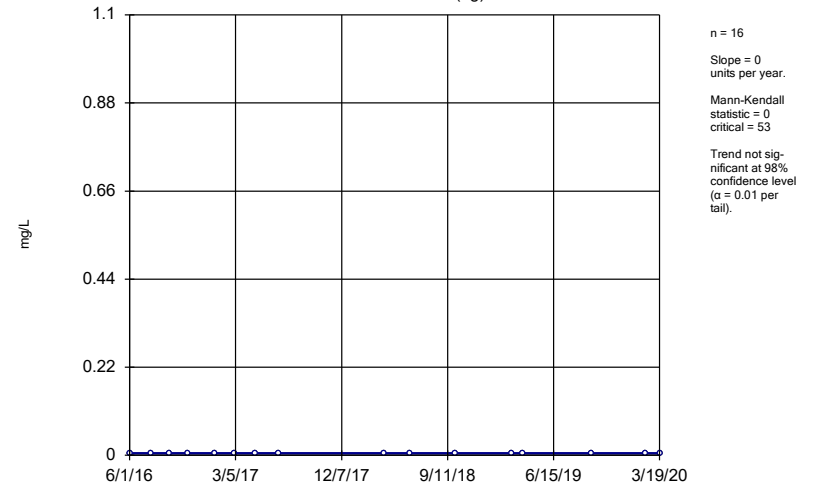
Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



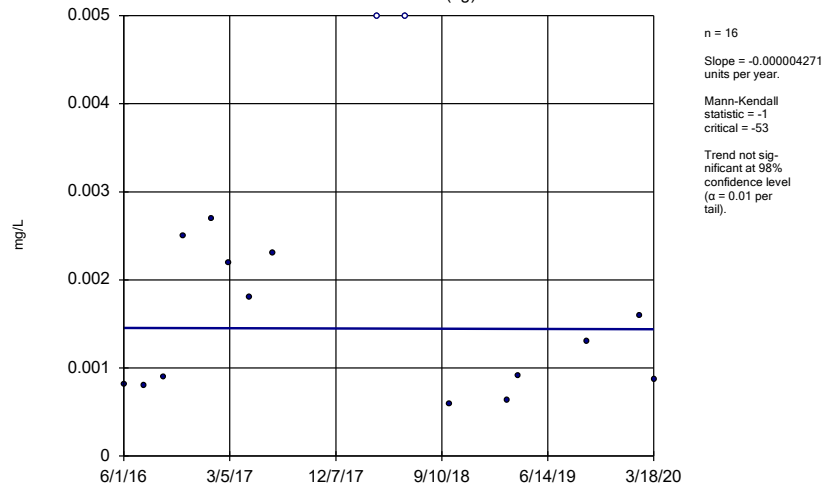
Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



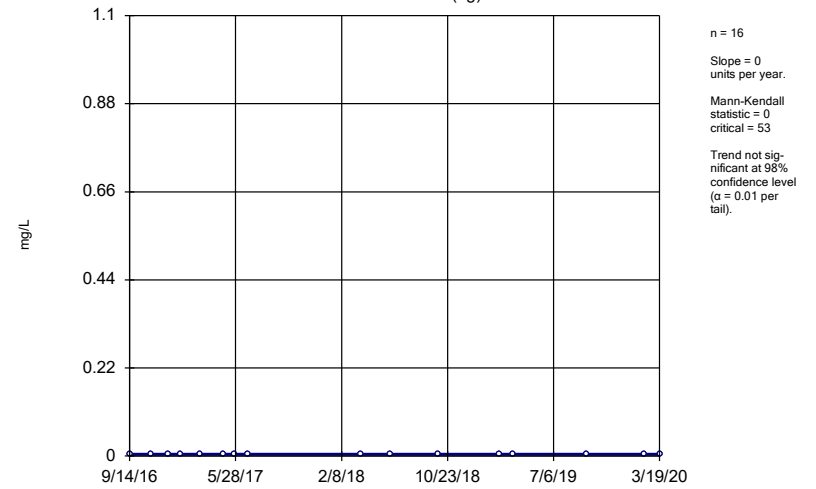
Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

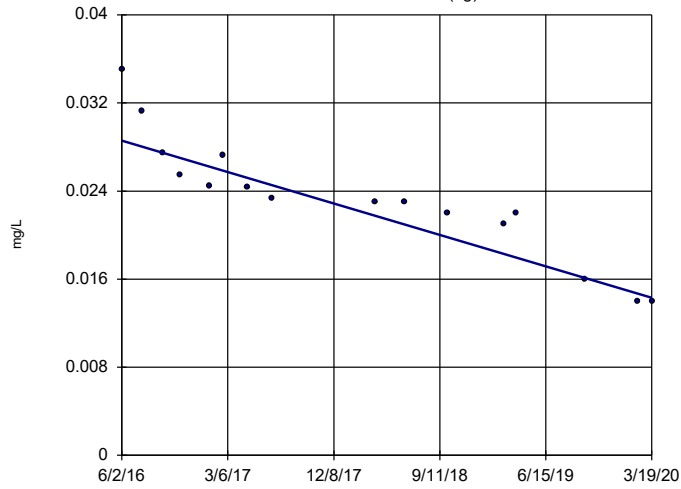
Sen's Slope Estimator YGWA-2I (bg)



Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)



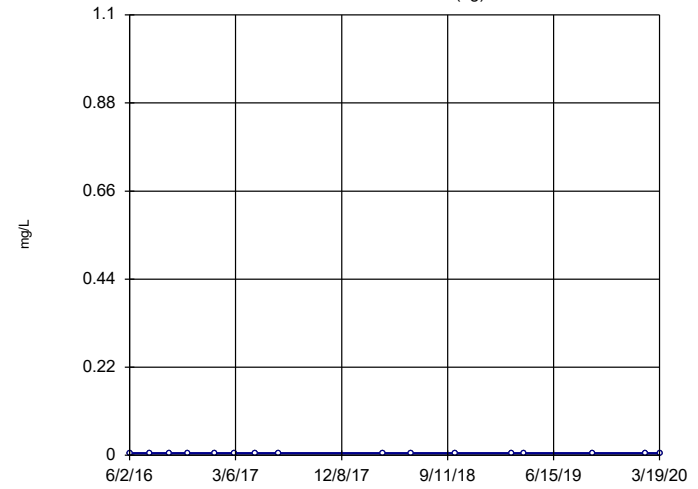
n = 16
 Slope = -0.003763
 units per year.
 Mann-Kendall
 statistic = -111
 critical = -53
 Decreasing trend
 significant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)

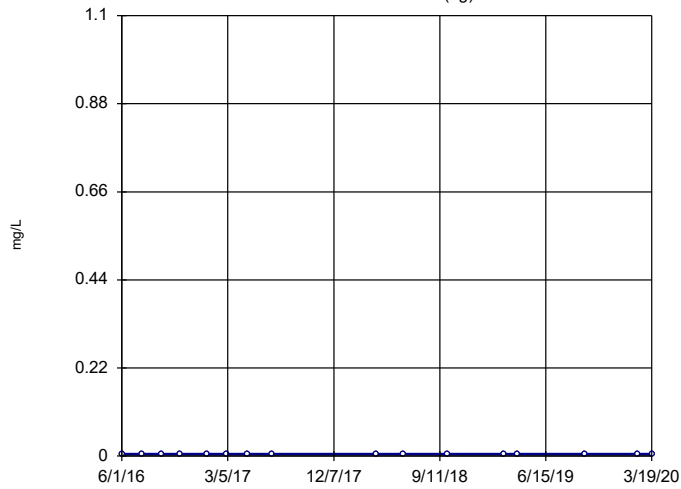


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

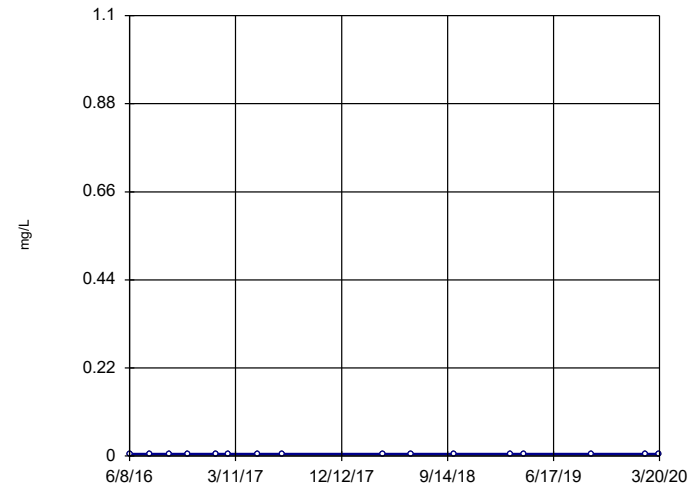


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26I

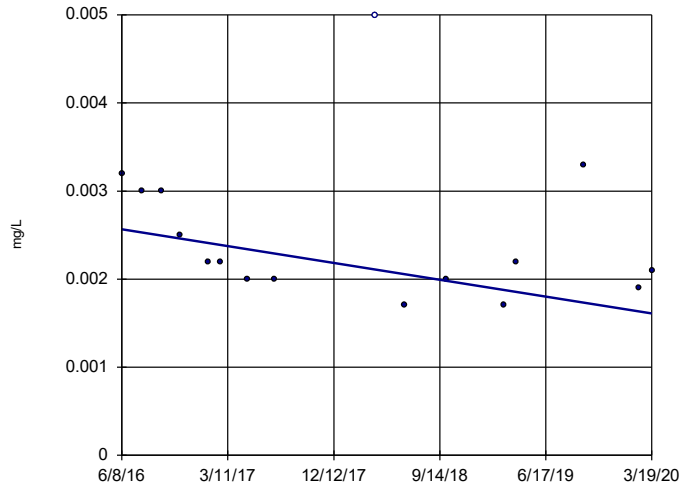


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S

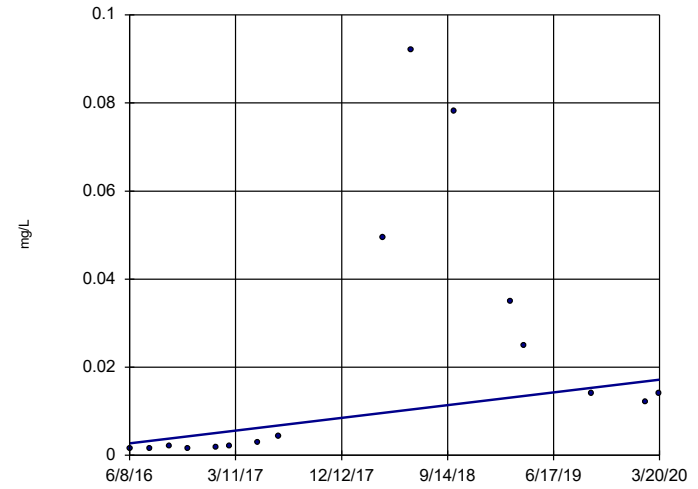


n = 16
Slope = -0.0002527
units per year.
Mann-Kendall
statistic = -44
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-27I

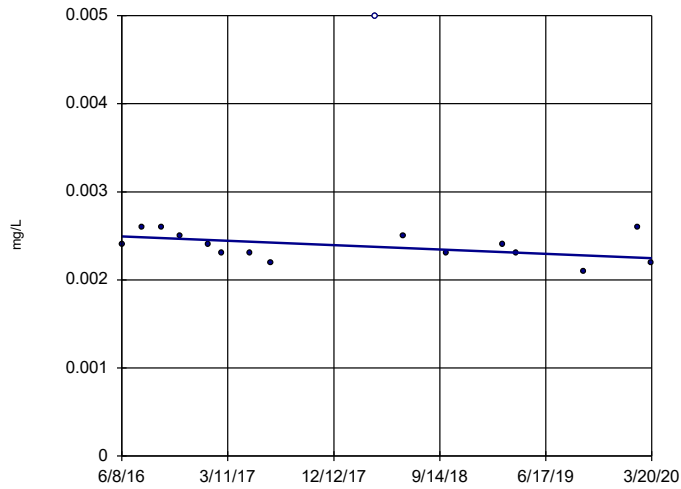


n = 16
Slope = 0.003813
units per year.
Mann-Kendall
statistic = 63
critical = 53
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

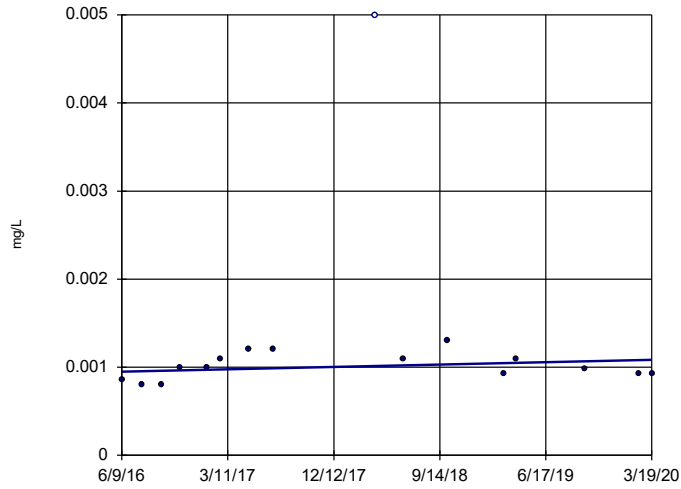
Sen's Slope Estimator

YGWC-27S



Sen's Slope Estimator

YGWC-28S

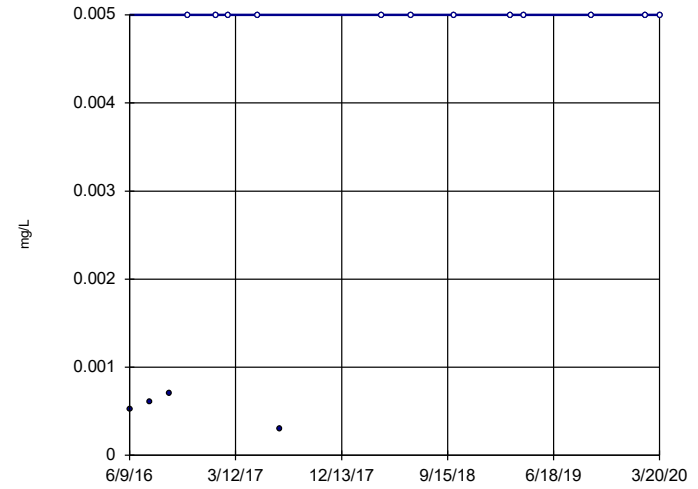


n = 16
Slope = 0.00003557
units per year.
Mann-Kendall
statistic = 17
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-29I

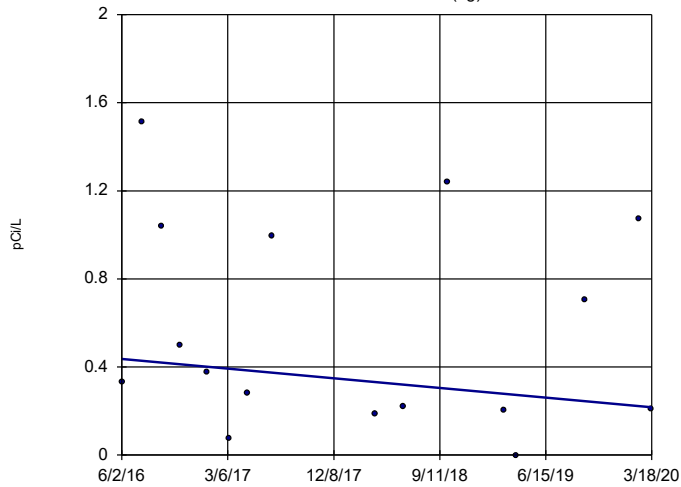


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 40
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-14S (bg)

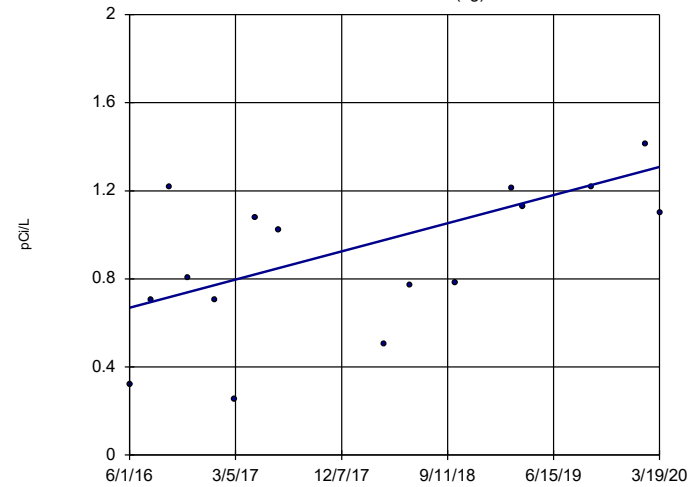


n = 16
Slope = -0.05778
units per year.
Mann-Kendall
statistic = -22
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)

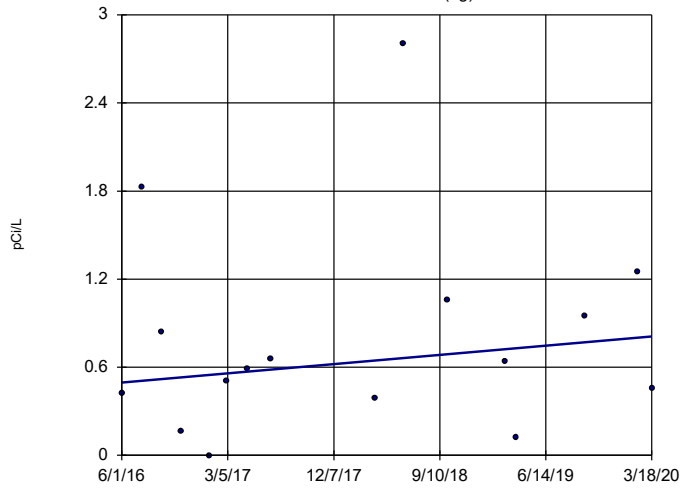


n = 16
Slope = 0.1682
units per year.
Mann-Kendall
statistic = 51
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-11 (bg)

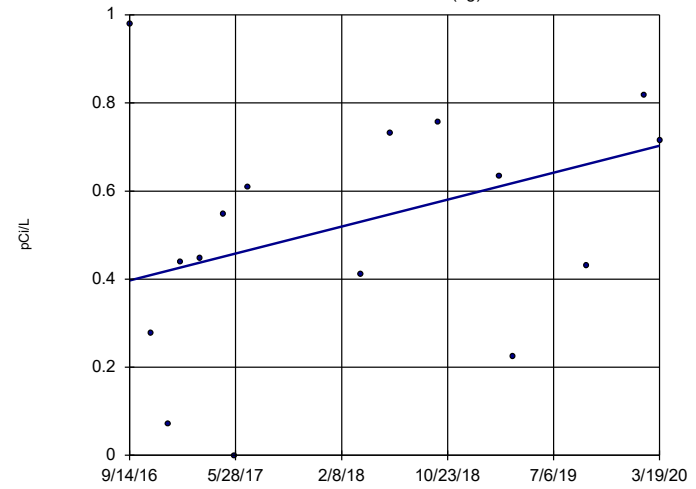


n = 16
 Slope = 0.08289
 units per year.
 Mann-Kendall
 statistic = 14
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21 (bg)

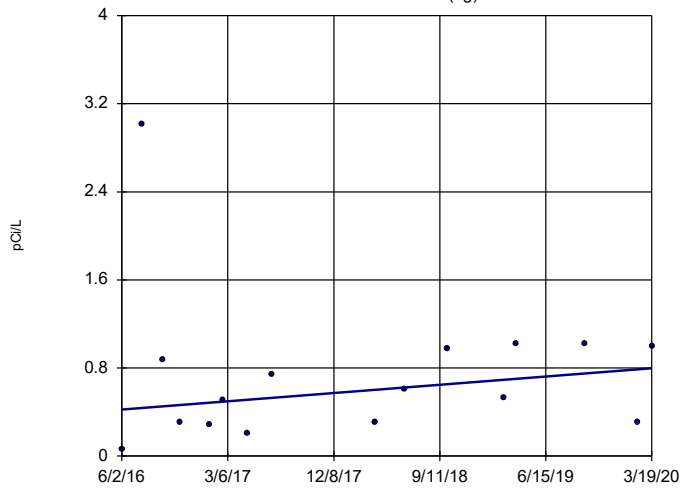


n = 16
 Slope = 0.08716
 units per year.
 Mann-Kendall
 statistic = 28
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

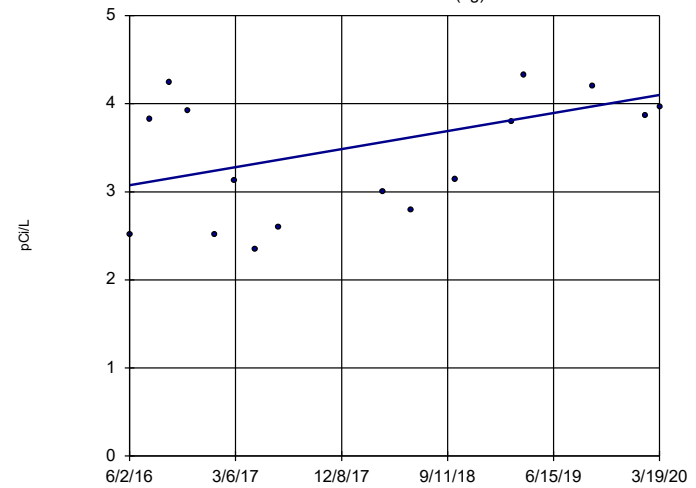


n = 16
 Slope = 0.09857
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

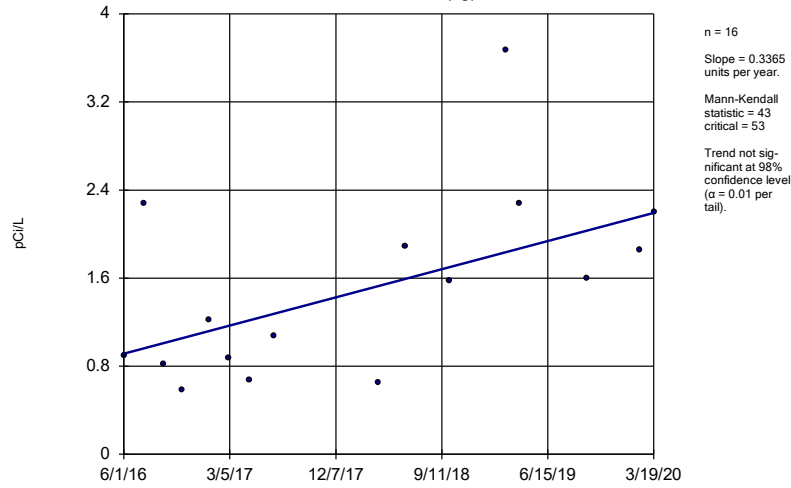


n = 16
 Slope = 0.2698
 units per year.
 Mann-Kendall
 statistic = 38
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

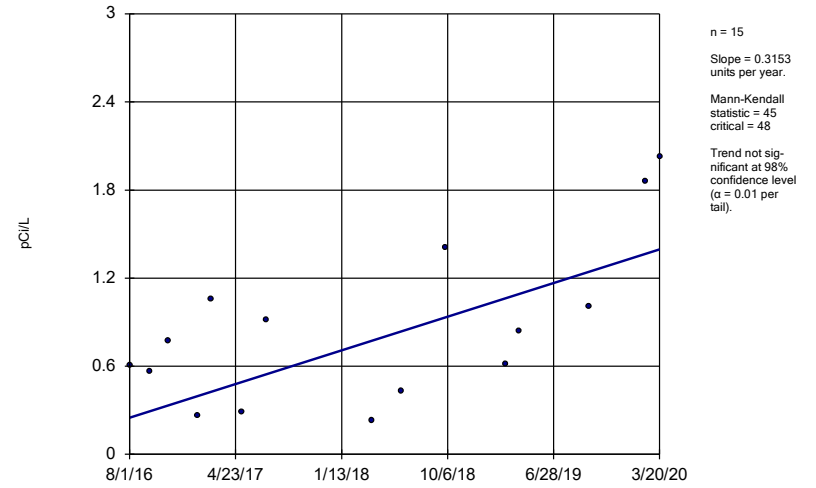
YGWA-3I (bg)



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

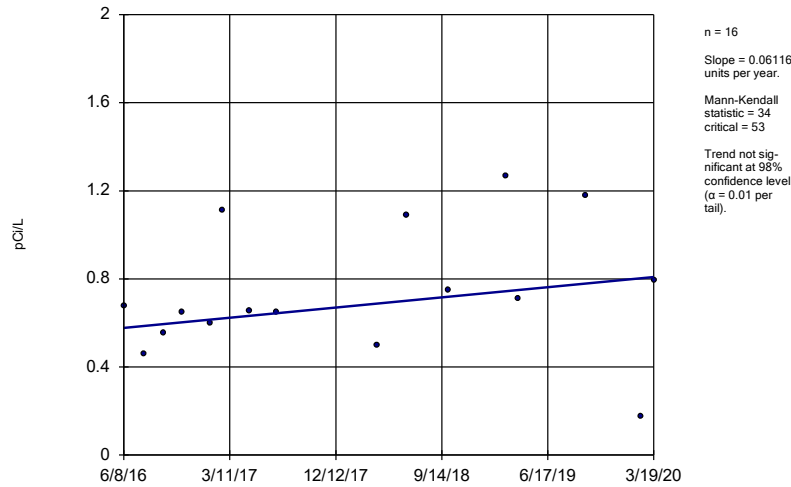
YGWC-26I



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

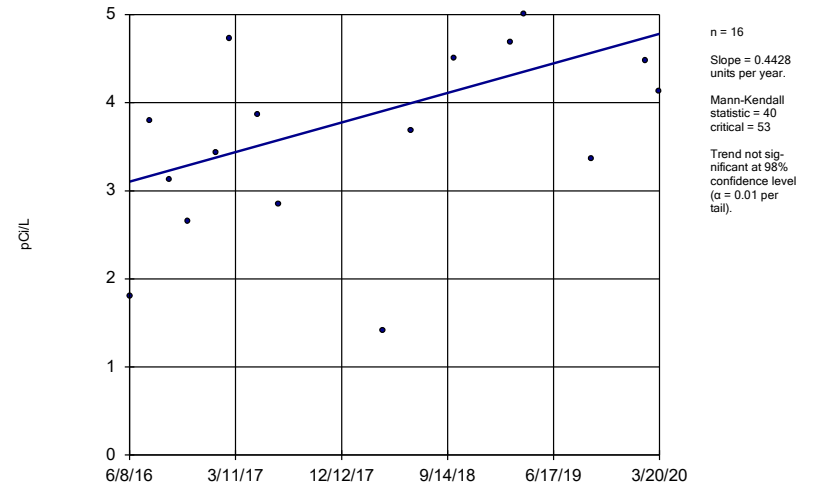
YGWC-26S



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

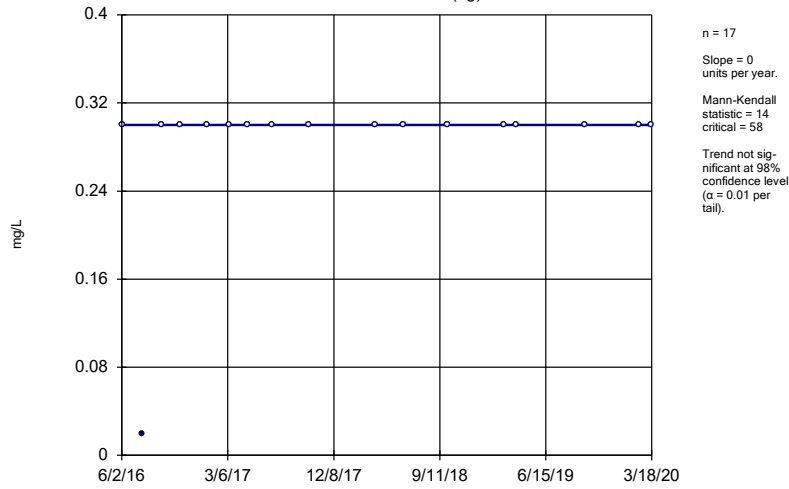
Sen's Slope Estimator

YGWC-27I



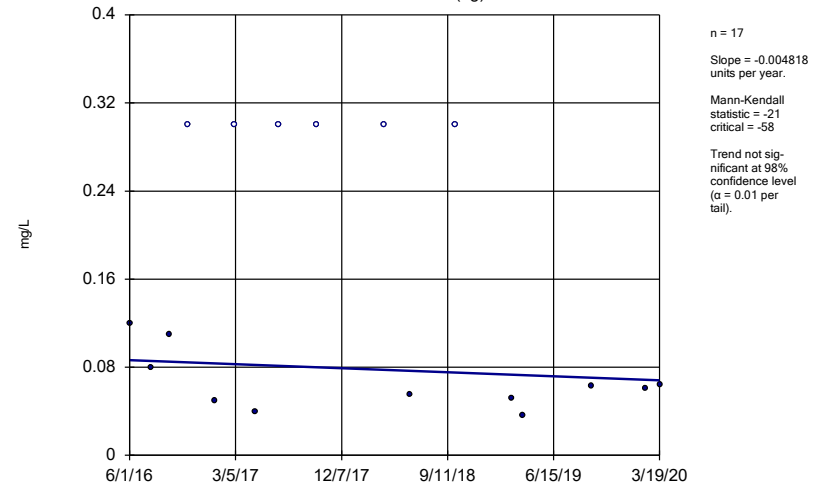
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-14S (bg)



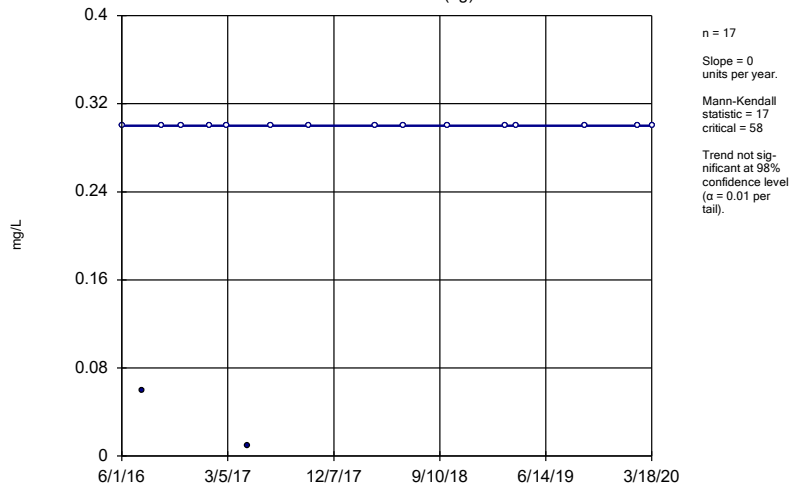
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-1D (bg)



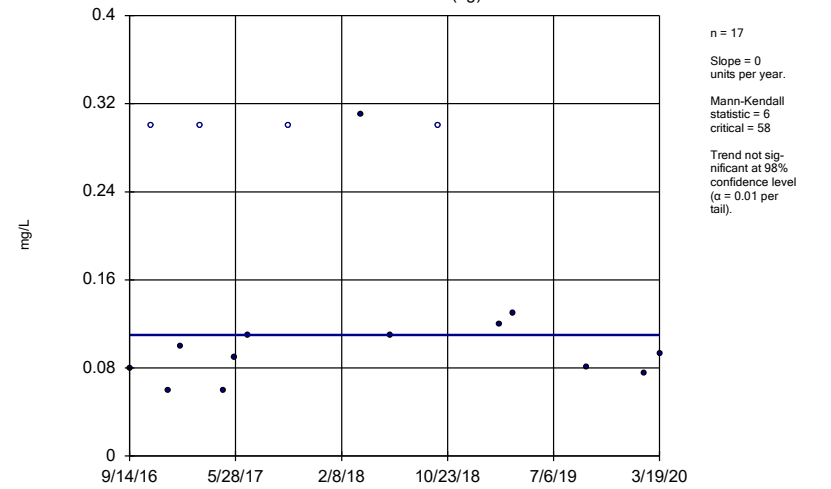
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-11 (bg)



Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

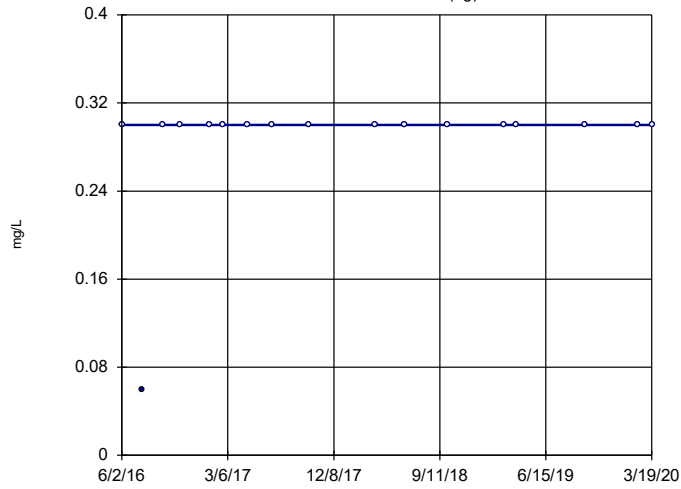
Sen's Slope Estimator
YGWA-2I (bg)



Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

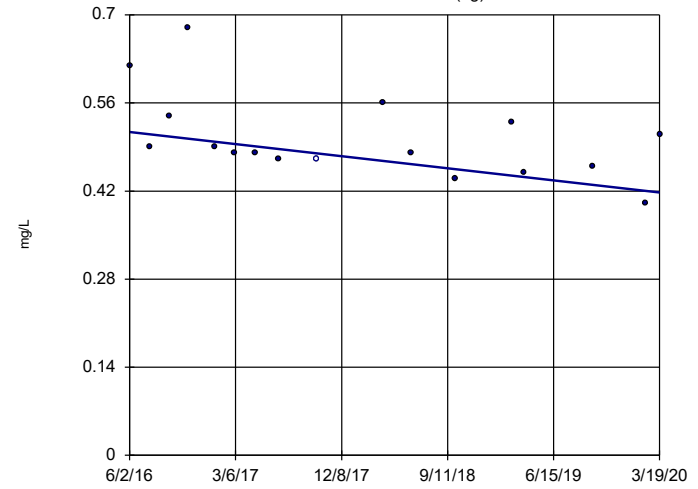


n = 17
Slope = 0
units per year.
Mann-Kendall
statistic = 14
critical = 58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

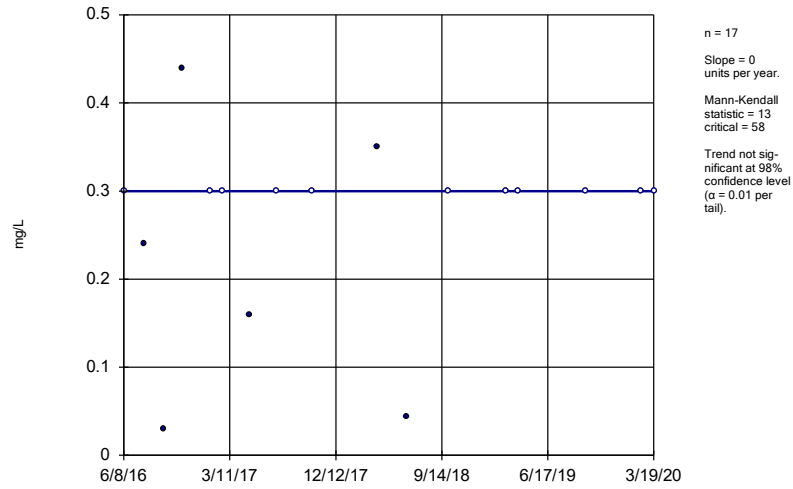
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

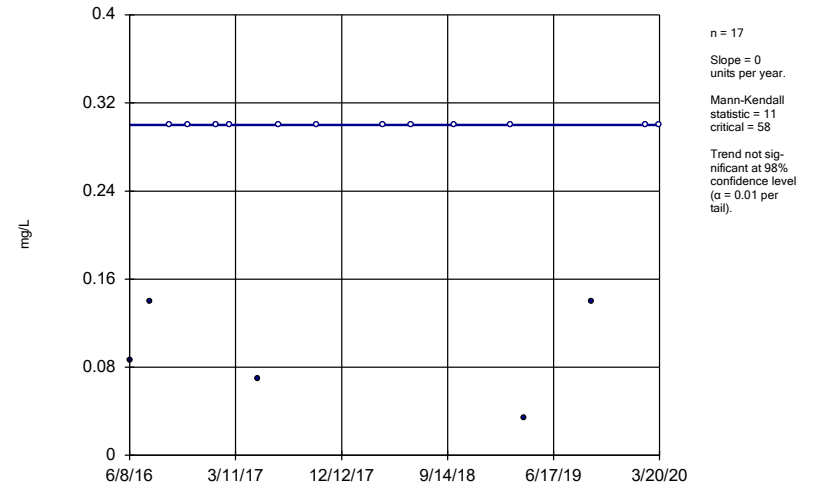


Sen's Slope Estimator
YGWC-26S



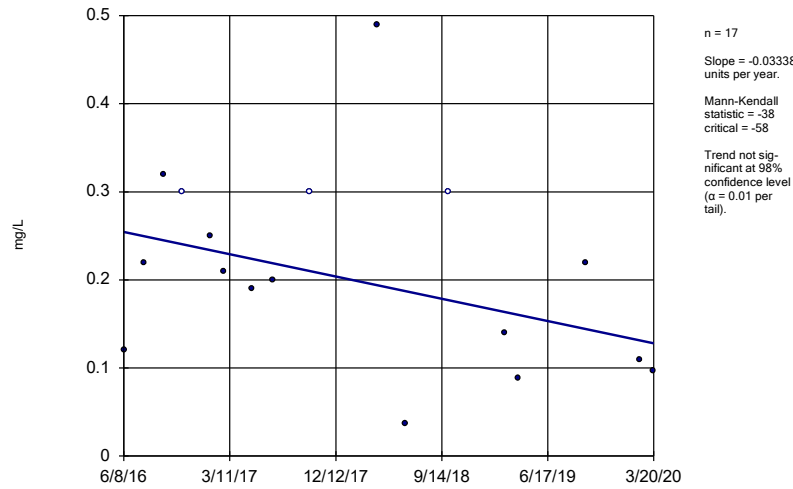
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-27I



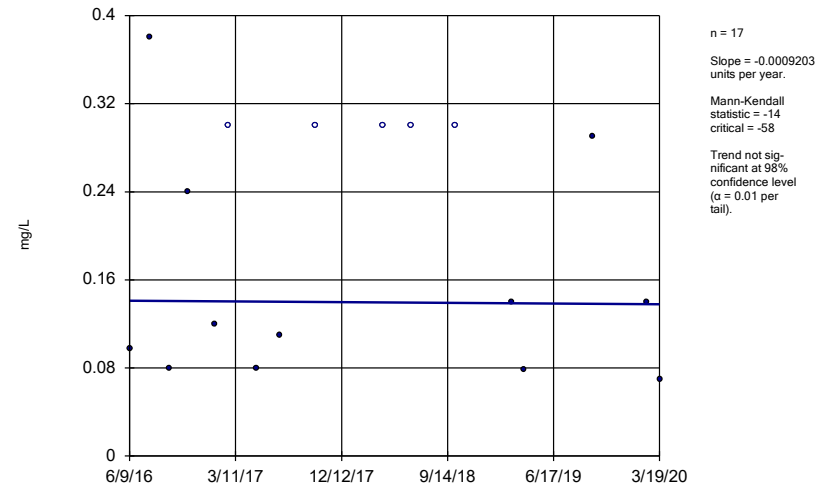
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-27S



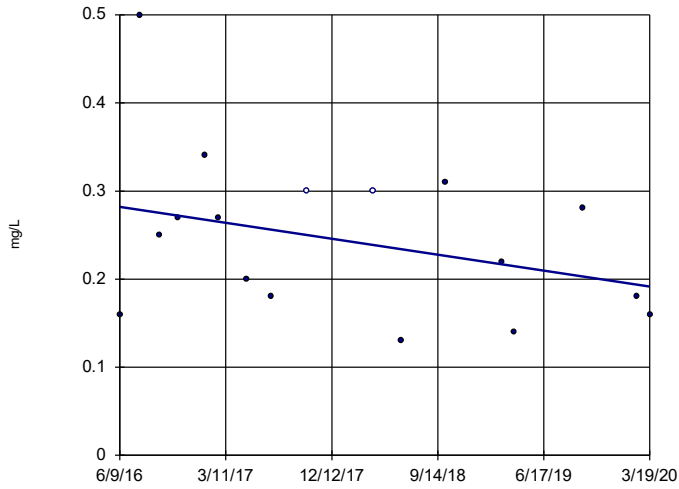
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28I



Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

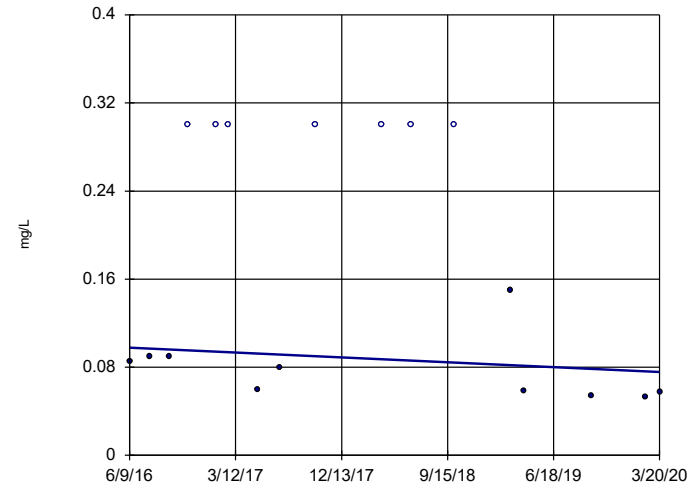
Sen's Slope Estimator YGWC-28S



n = 17
Slope = -0.02391
units per year.
Mann-Kendall
statistic = -30
critical = -58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

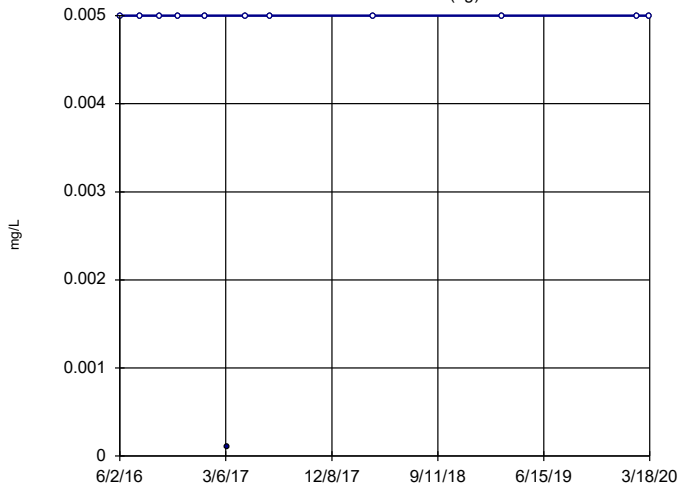
Sen's Slope Estimator YGWC-29I



n = 17
Slope = -0.005777
units per year.
Mann-Kendall
statistic = -36
critical = -58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

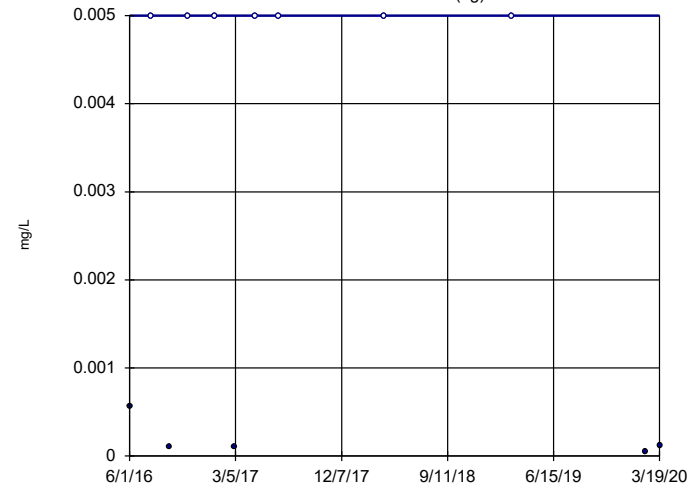
Sen's Slope Estimator YGWA-14S (bg)



n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = 1
critical = 35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

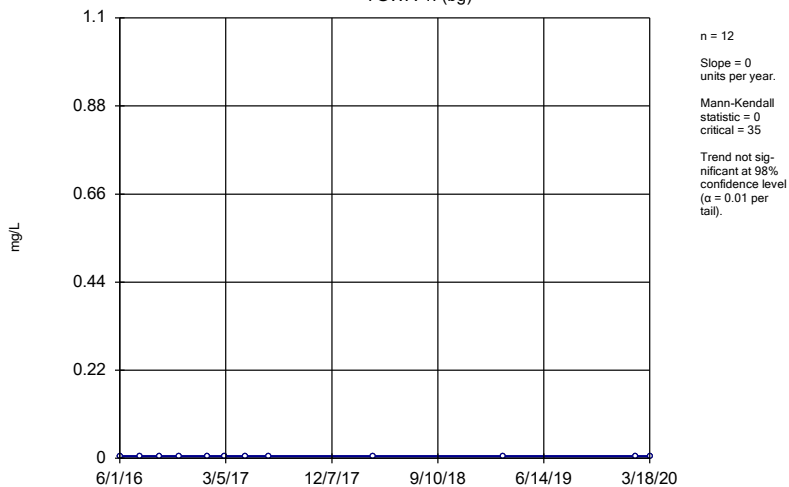
Sen's Slope Estimator YGWA-1D (bg)



n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = -4
critical = -35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

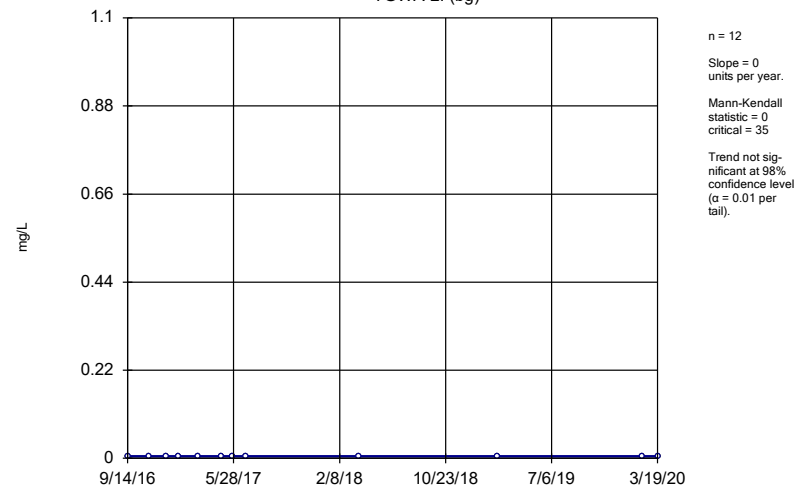
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



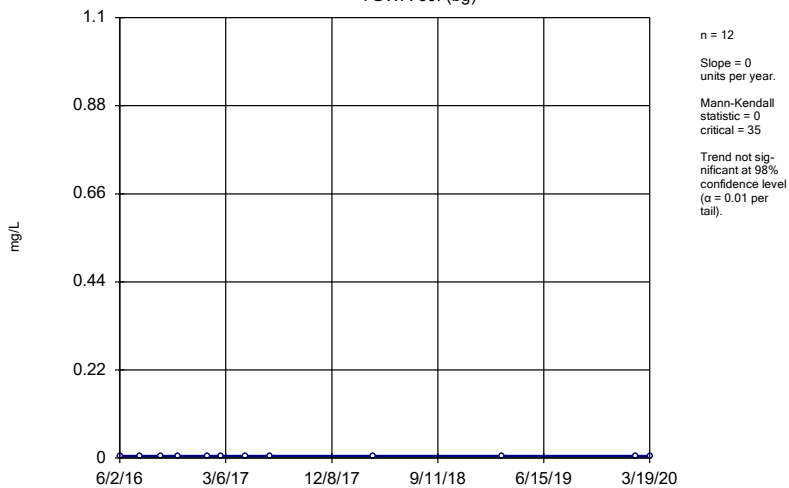
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-21 (bg)



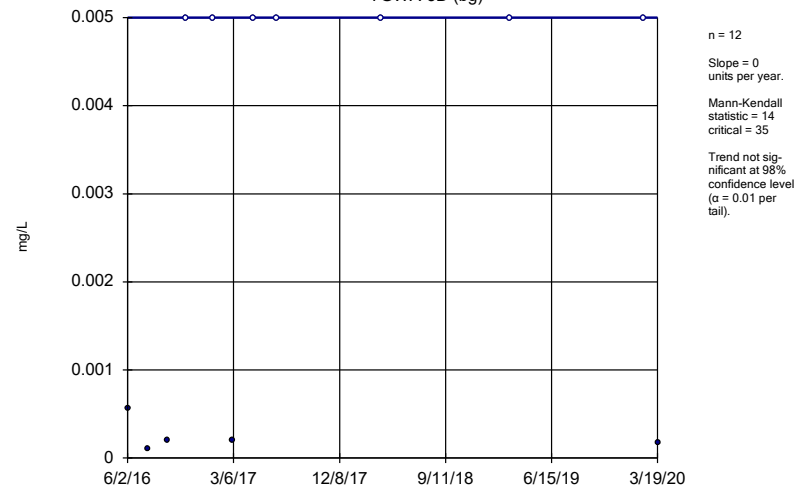
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



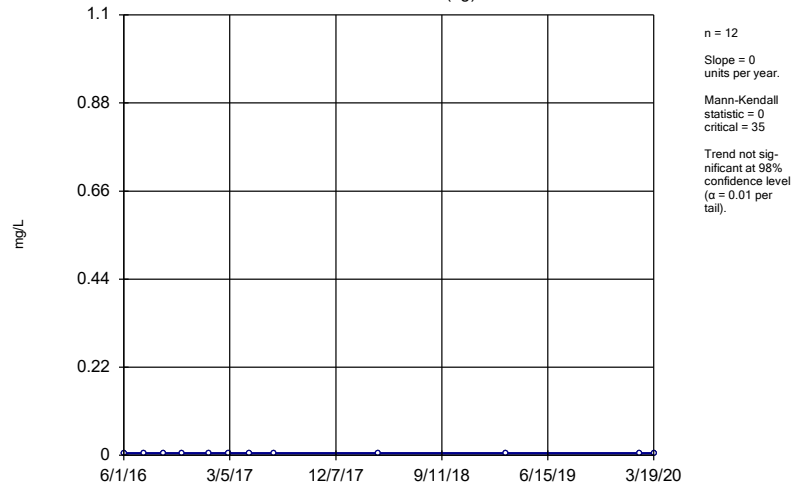
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



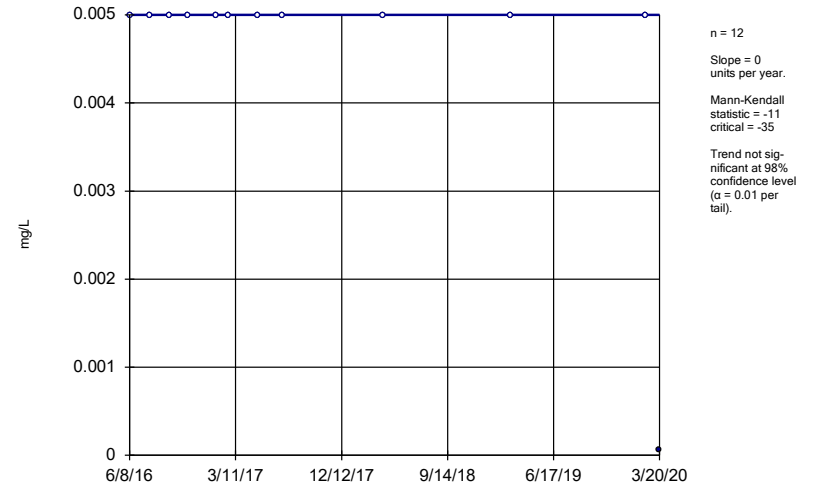
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



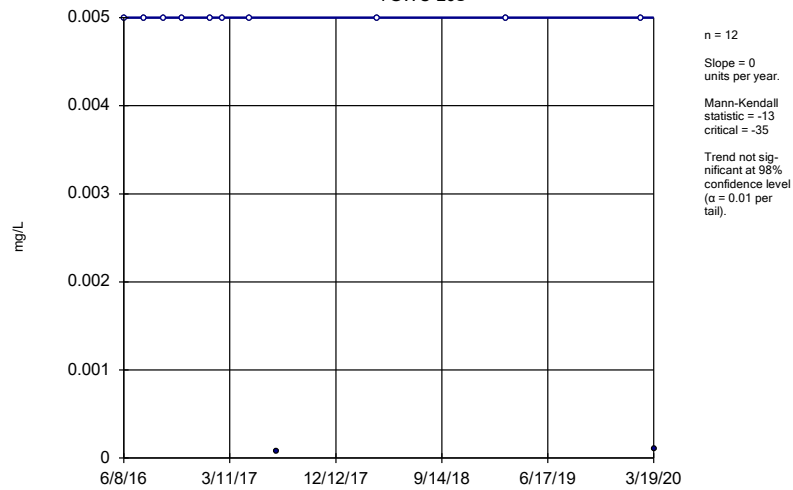
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I



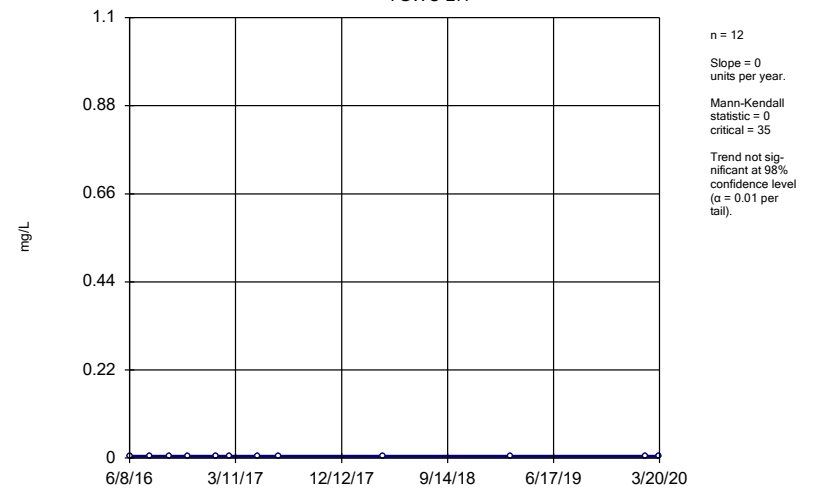
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

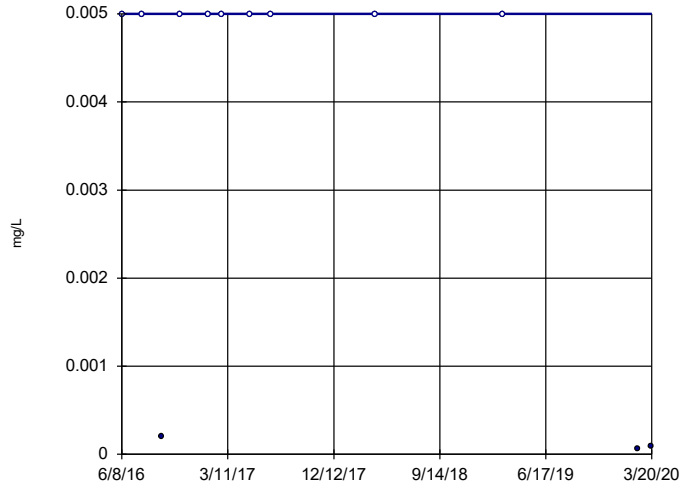
Sen's Slope Estimator YGWC-27I



Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-27S

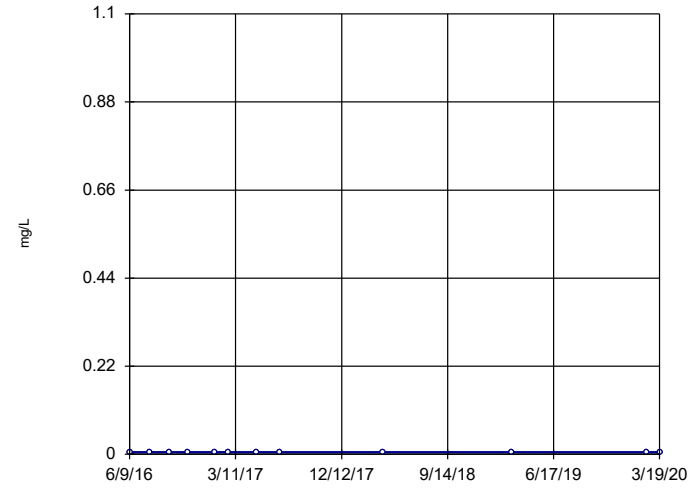


n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = -14
critical = -35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28I

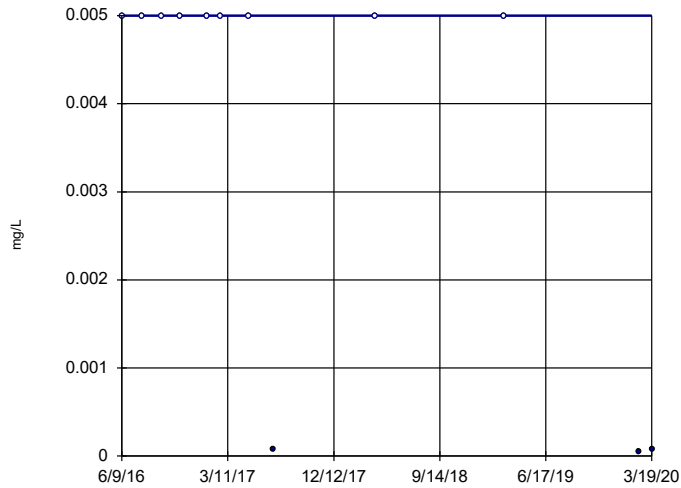


n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28S

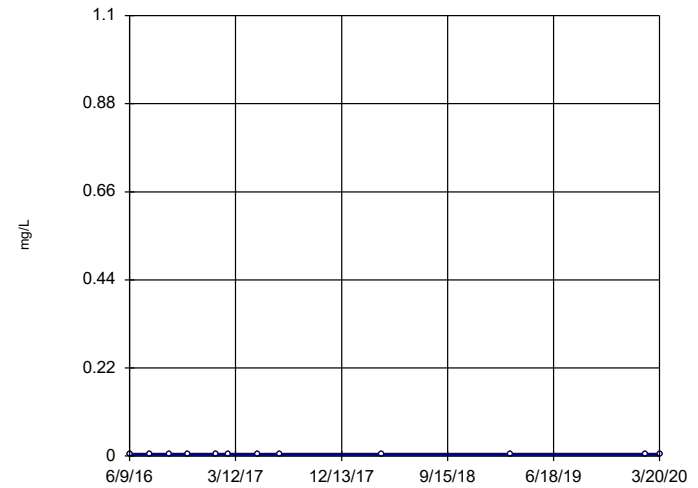


n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = -22
critical = -35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

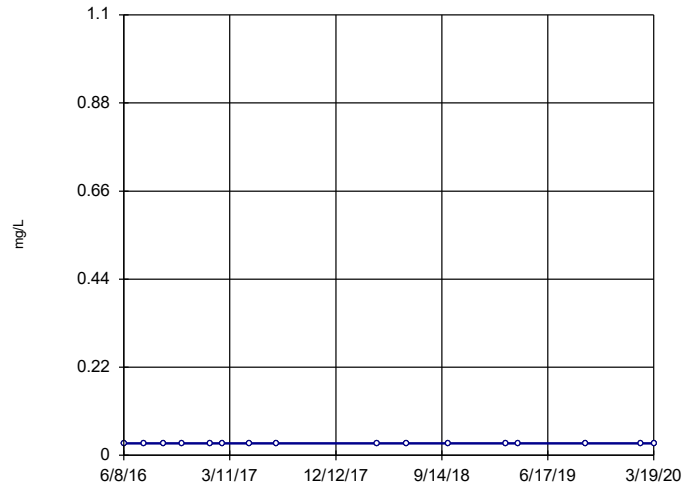
YGWC-29I



n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

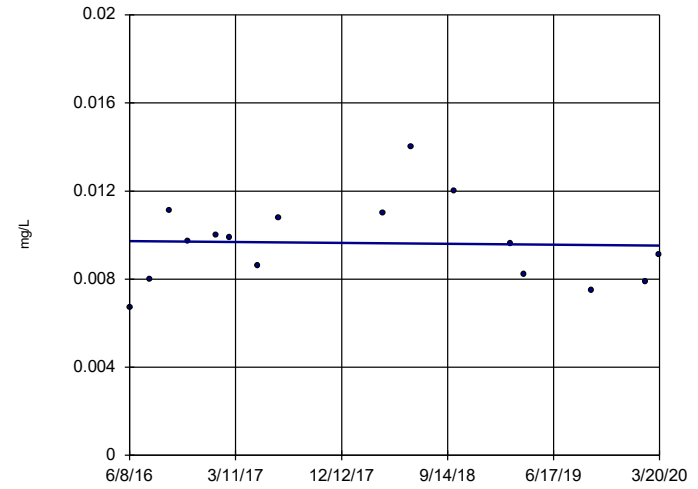
Sen's Slope Estimator YGWC-26S



n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

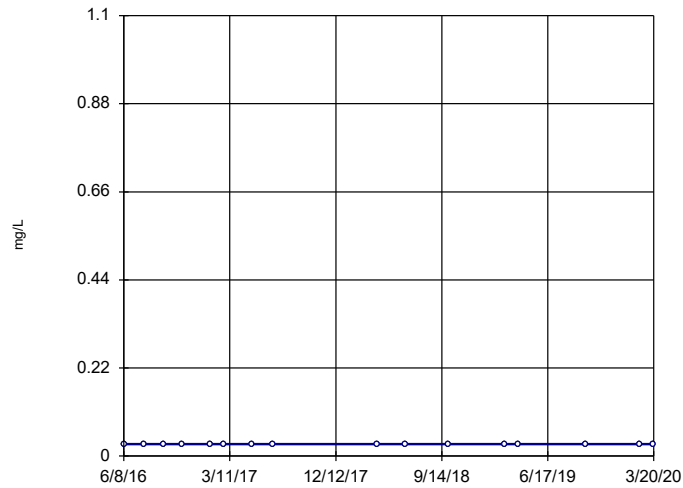
Sen's Slope Estimator YGWC-27I



n = 16
Slope = -0.00005456
units per year.
Mann-Kendall
statistic = -4
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

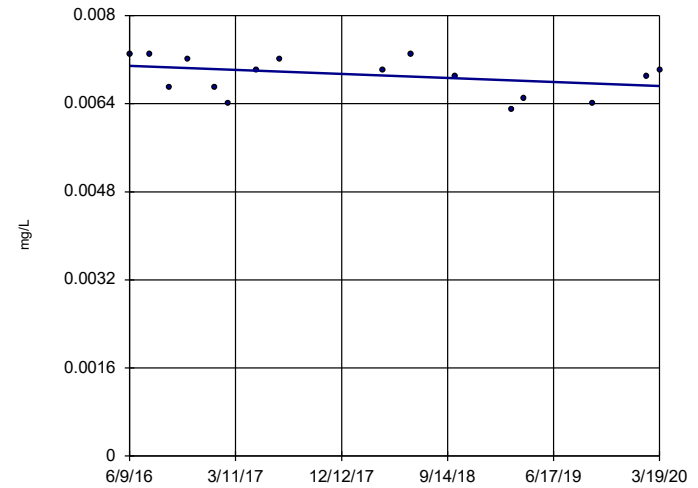
Sen's Slope Estimator YGWC-27S



n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

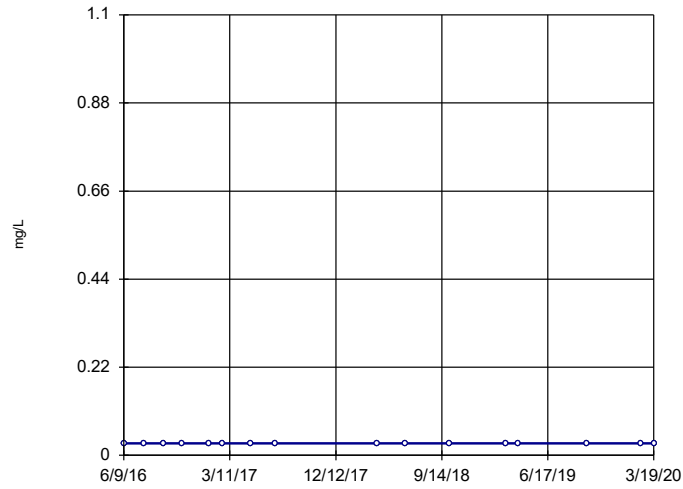
Sen's Slope Estimator YGWC-28I



n = 16
Slope = -0.00009645
units per year.
Mann-Kendall
statistic = -34
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

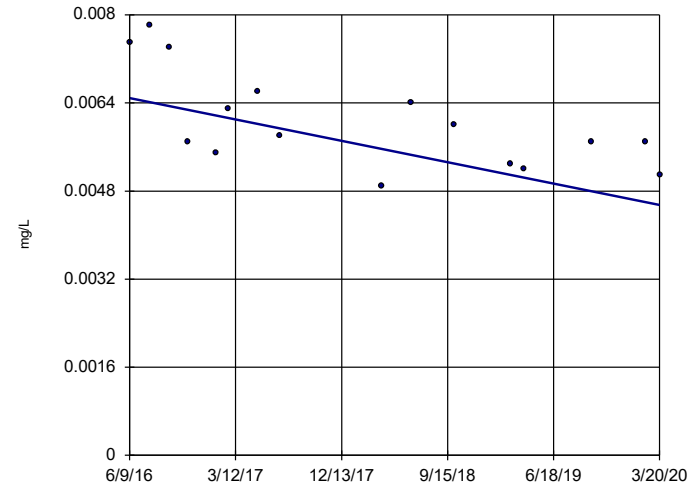
Sen's Slope Estimator
YGWC-28S



n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

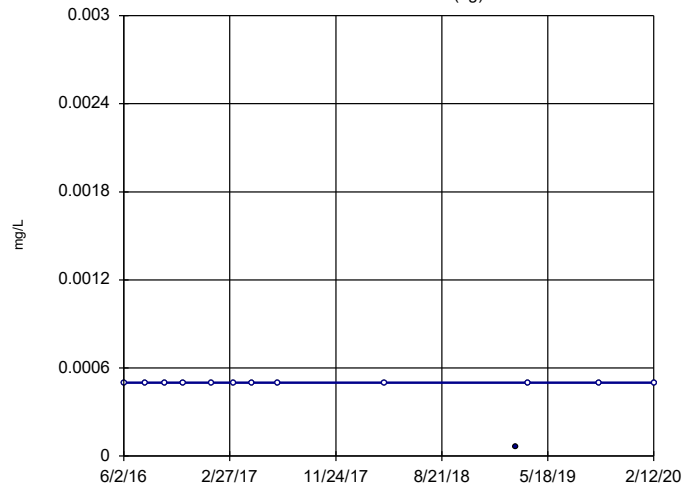
Sen's Slope Estimator
YGWC-29I



n = 16
Slope = -0.0005137
units per year.
Mann-Kendall
statistic = -61
critical = -53
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

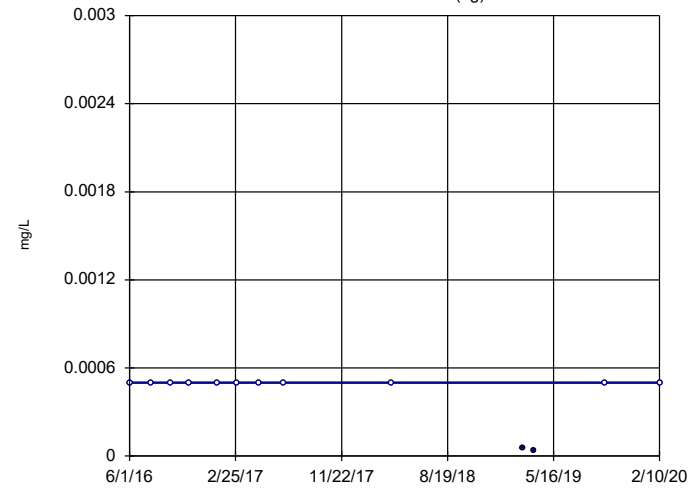
Sen's Slope Estimator
YGWA-14S (bg)



n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -6
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

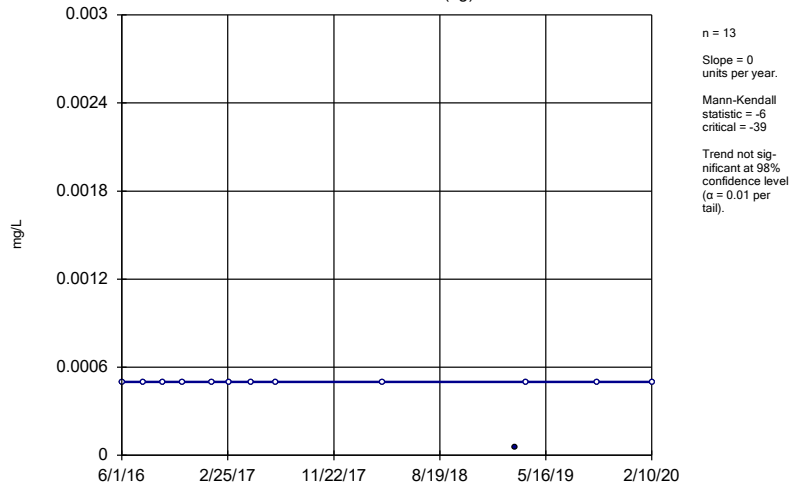
Sen's Slope Estimator
YGWA-1D (bg)



n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -15
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

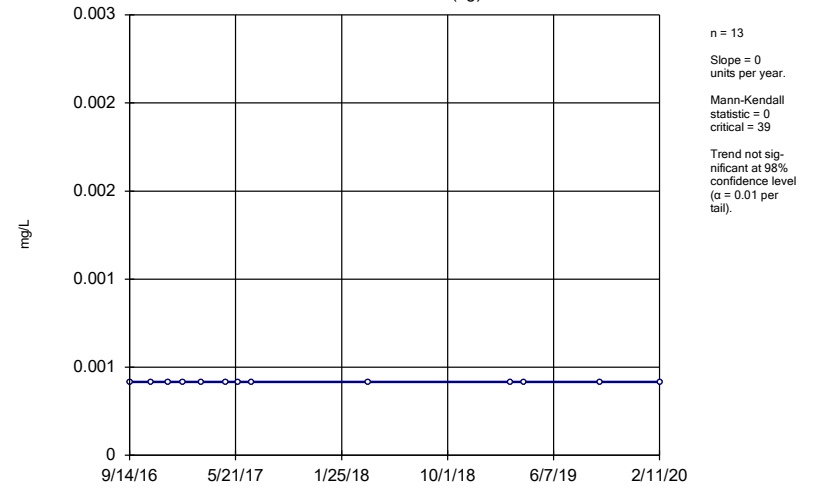
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-11 (bg)



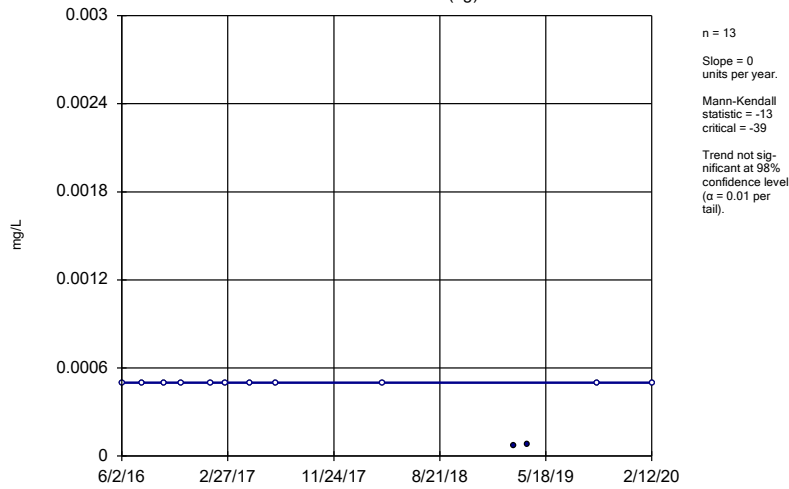
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-21 (bg)



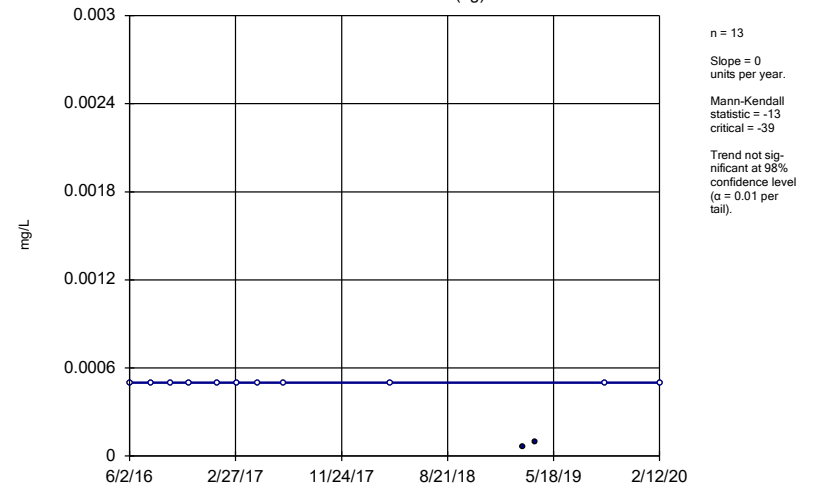
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-30I (bg)



Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

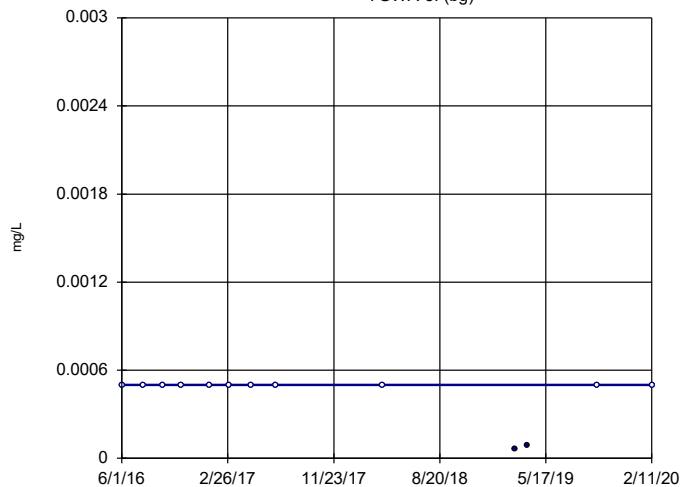
Sen's Slope Estimator
YGWA-3D (bg)



Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

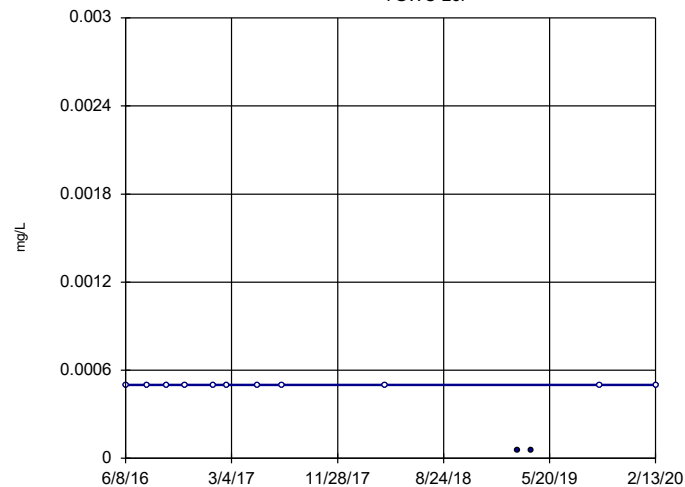


n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -13
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26I

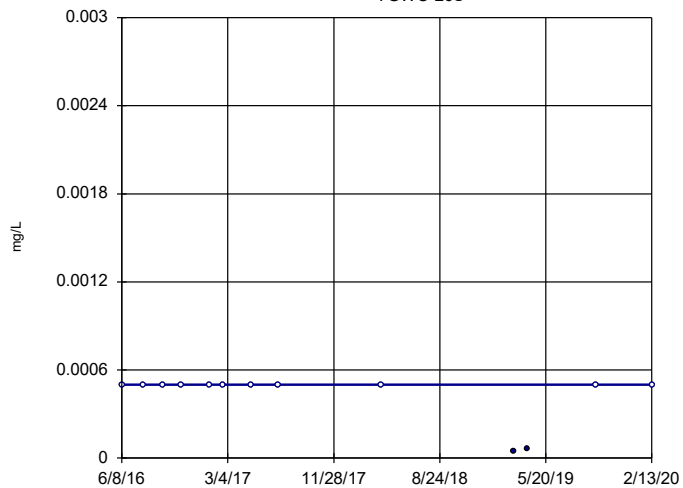


n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -14
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S

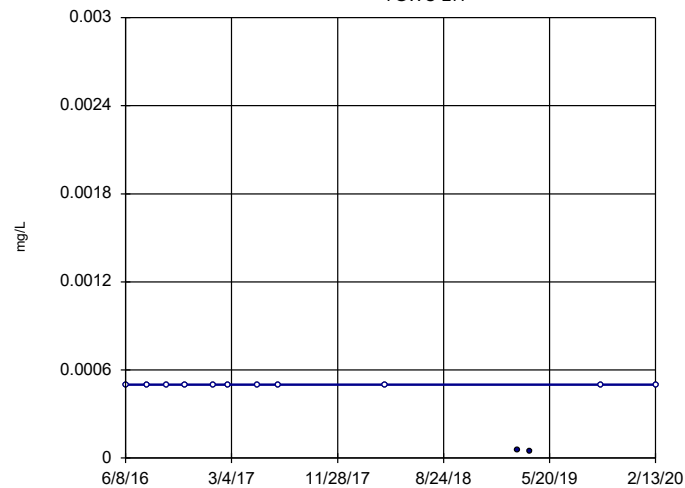


n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -13
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

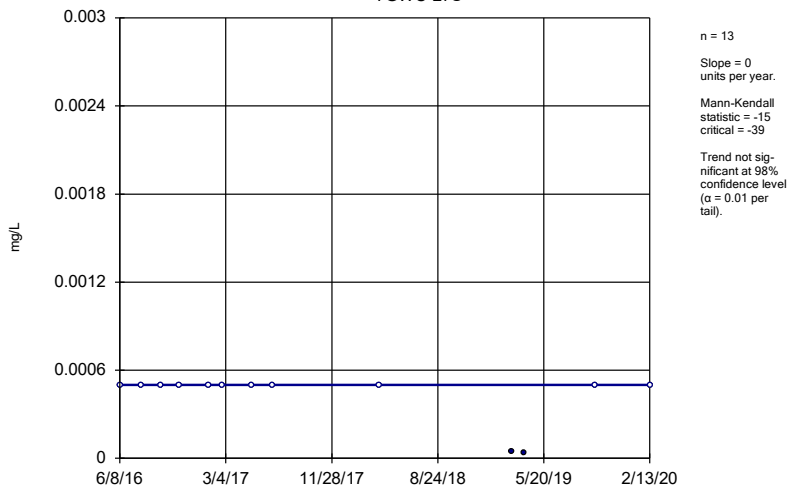
YGWC-27I



n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -15
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

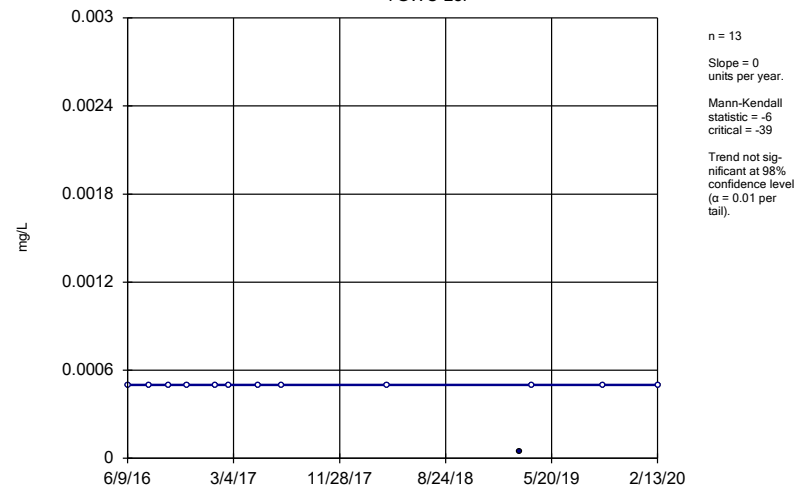
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



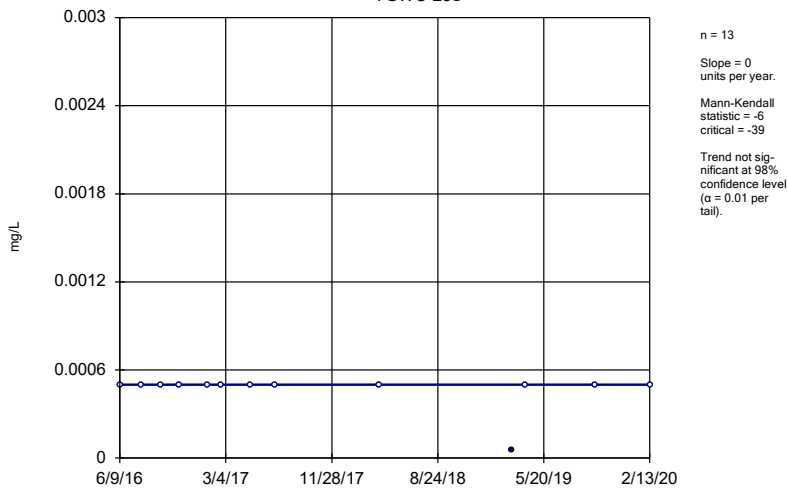
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



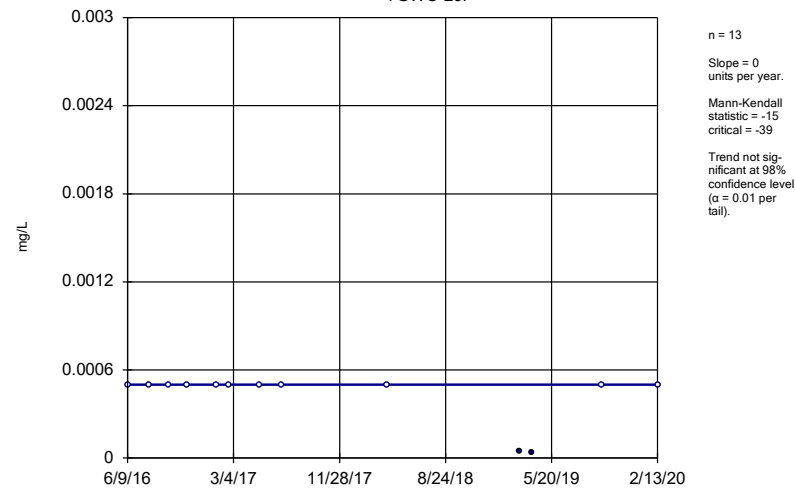
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Sen's Slope Estimator YGWC-28S



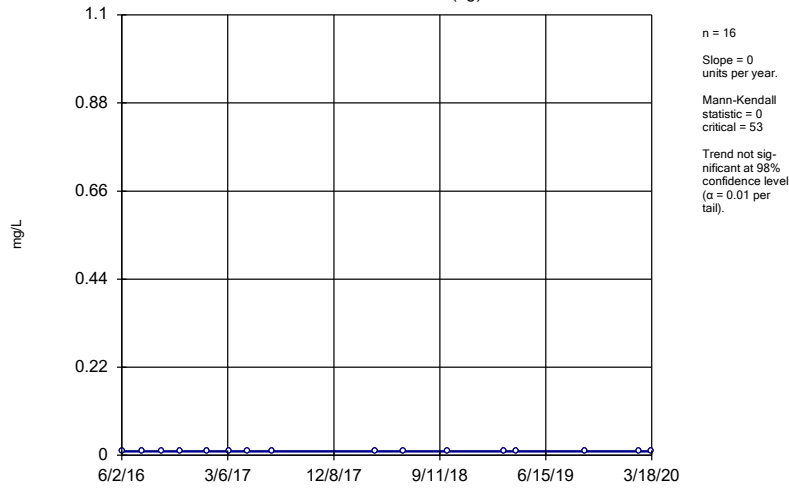
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Sen's Slope Estimator YGWC-29I



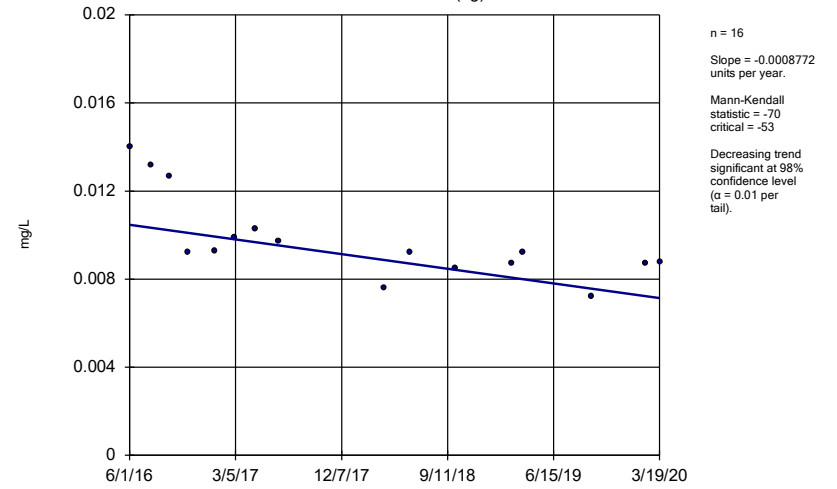
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
 YGWA-14S (bg)



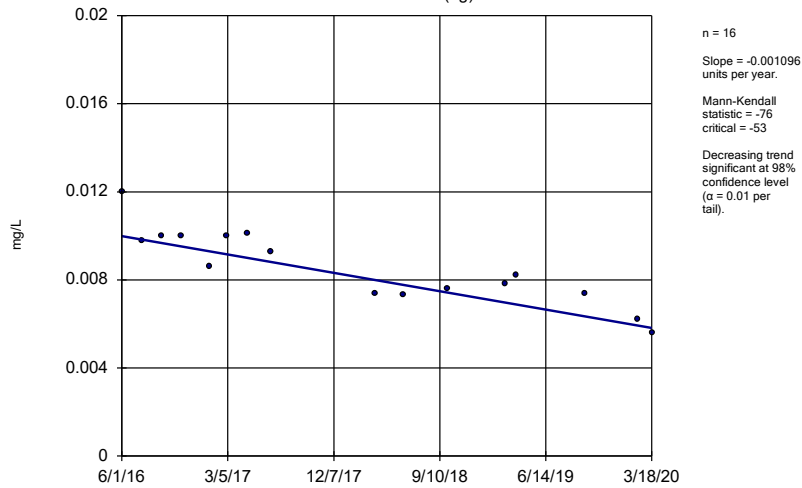
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
 YGWA-1D (bg)



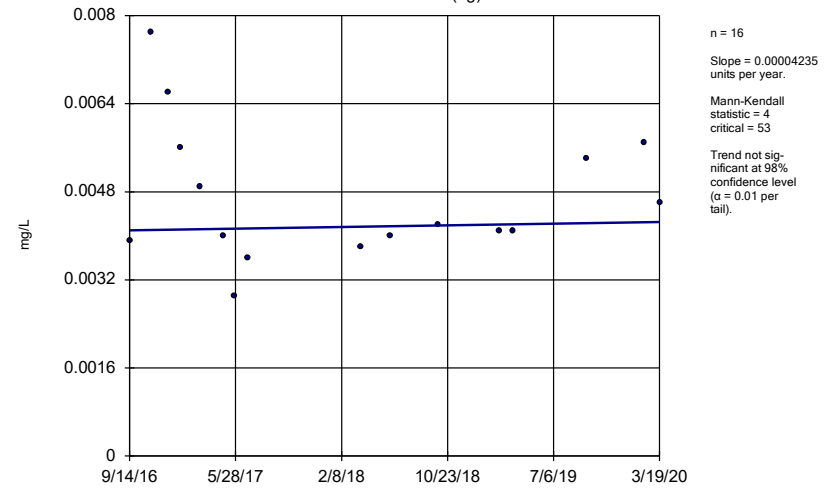
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
 YGWA-11 (bg)



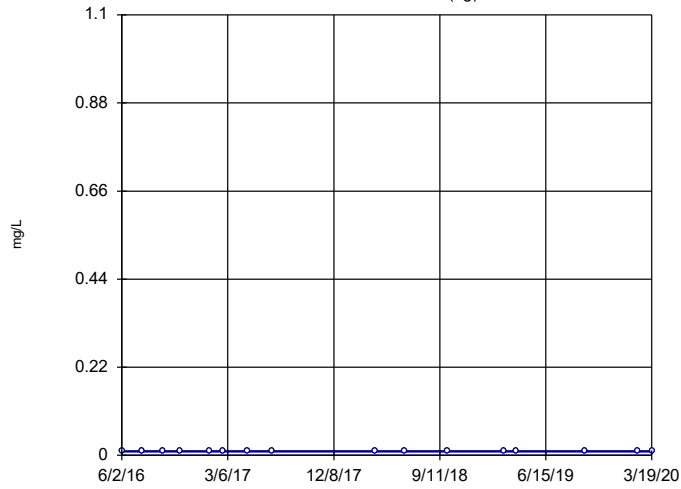
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
 YGWA-2I (bg)



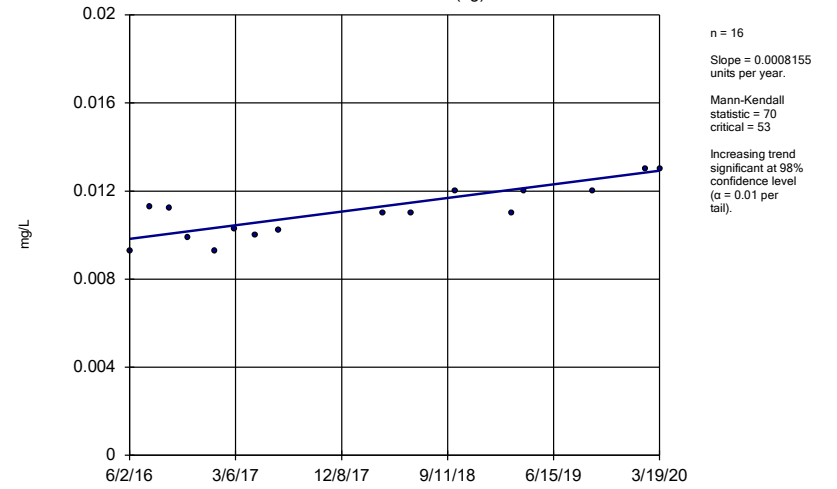
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



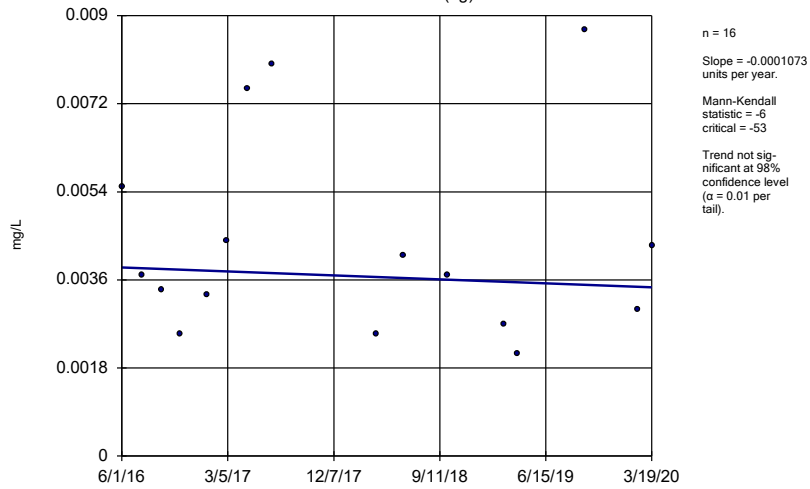
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



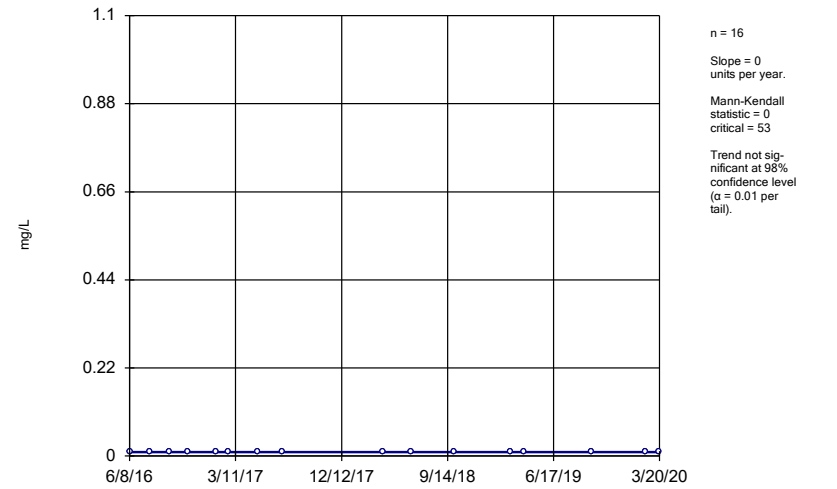
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



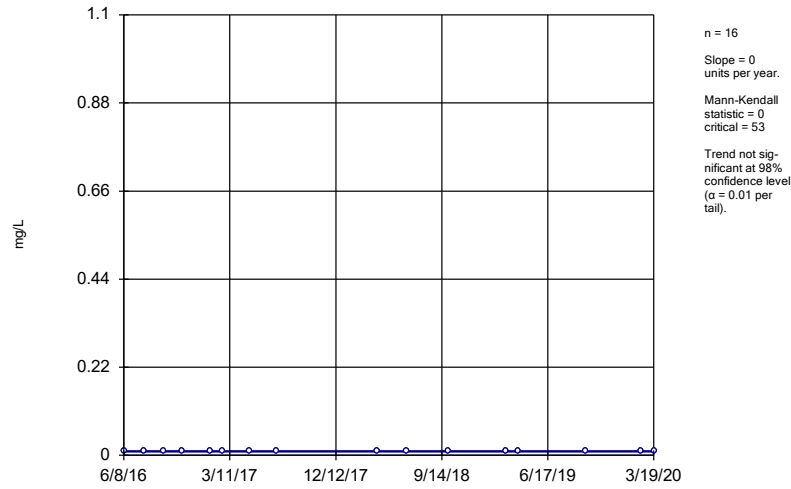
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I



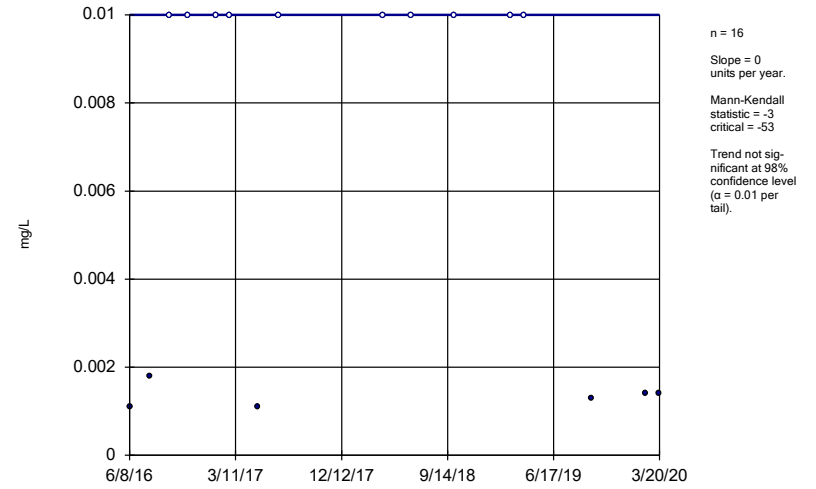
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



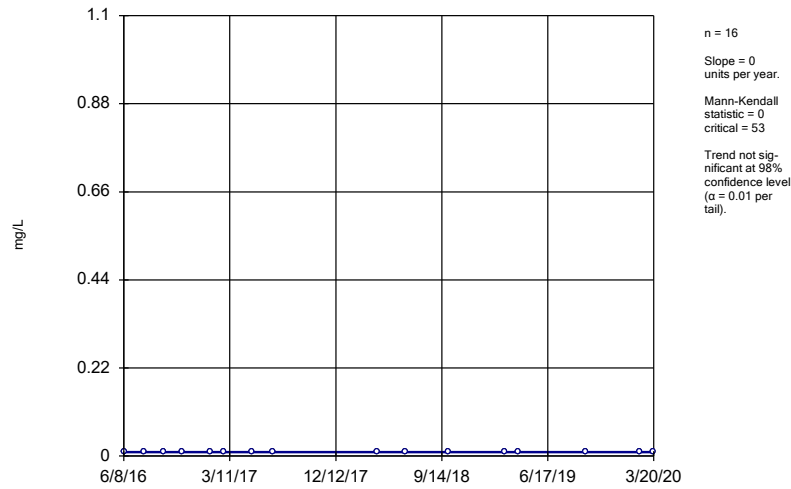
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



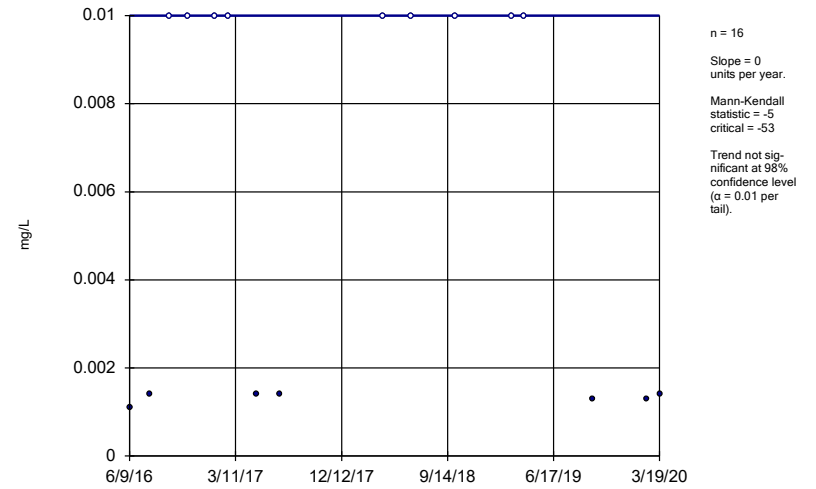
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



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

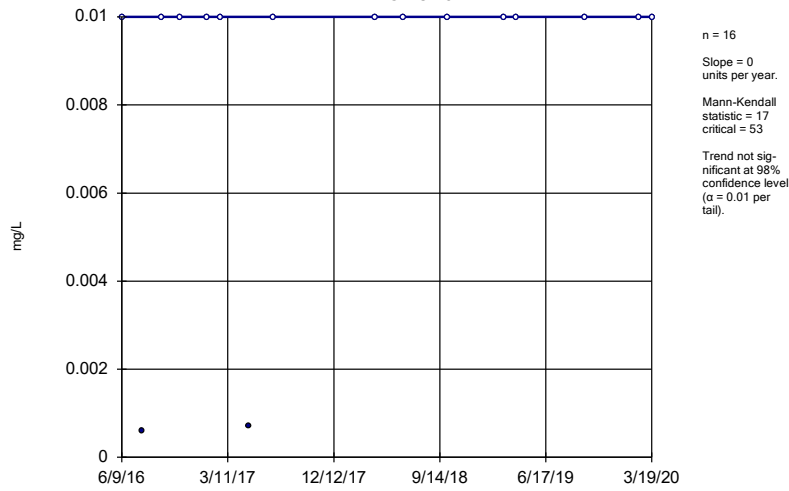
Sen's Slope Estimator YGWC-28I



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

Sen's Slope Estimator

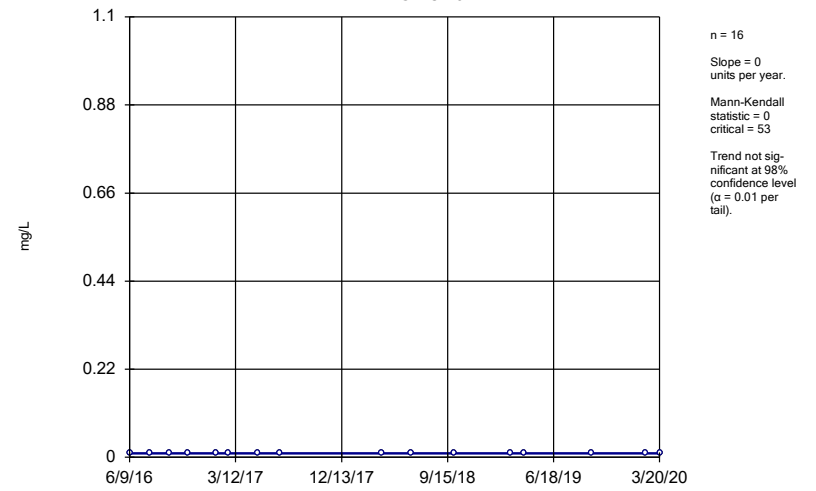
YGWC-28S



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

Sen's Slope Estimator

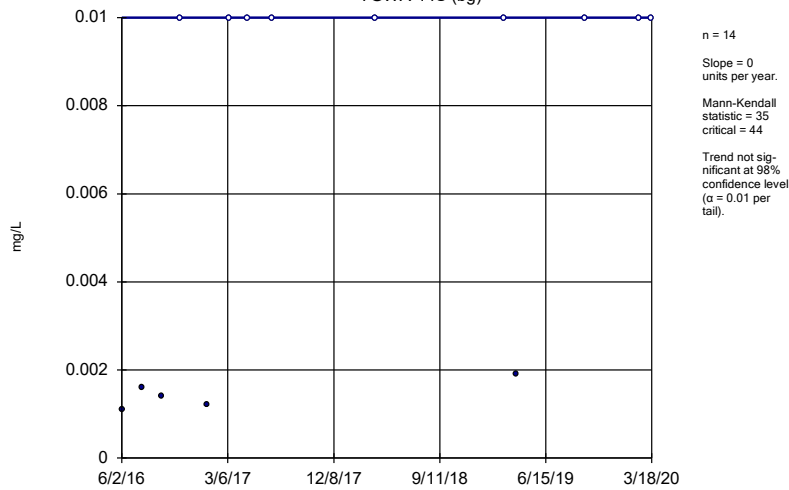
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

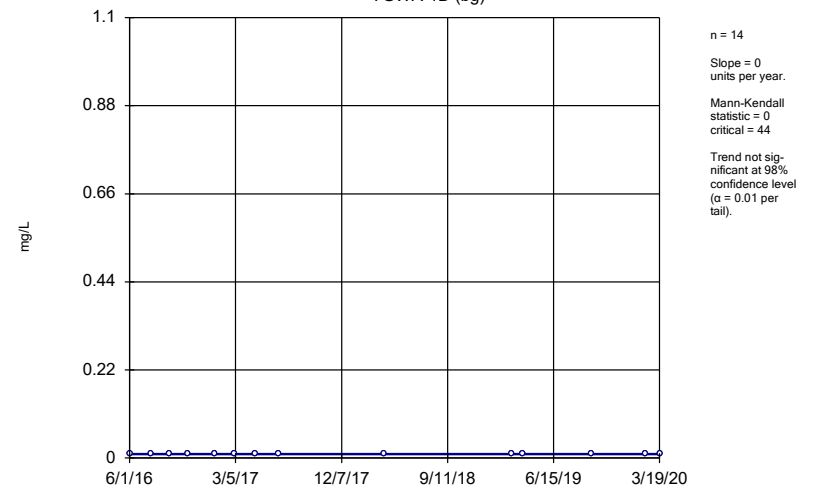
YGWA-14S (bg)



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

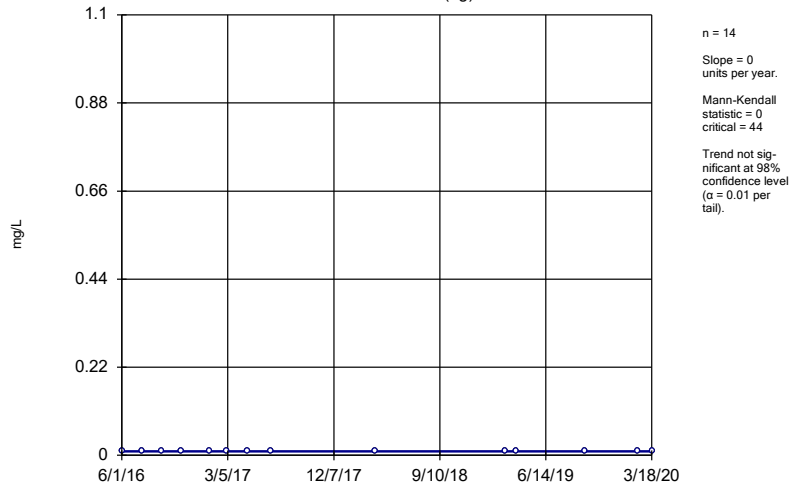
Sen's Slope Estimator

YGWA-1D (bg)



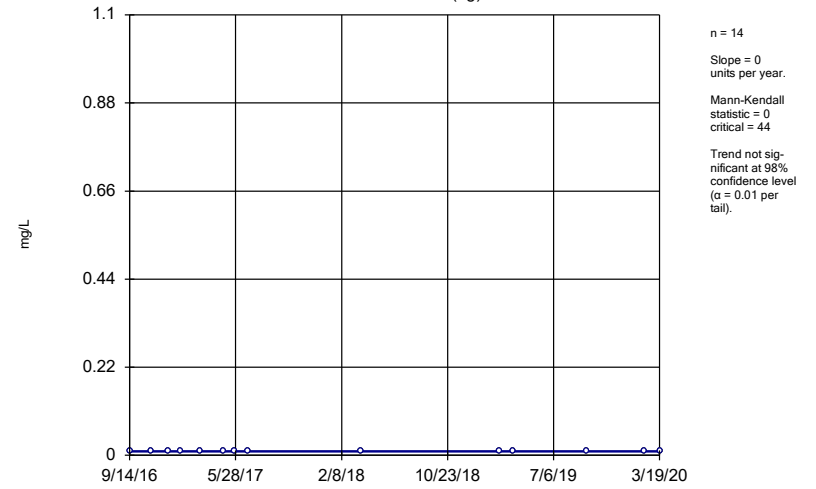
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



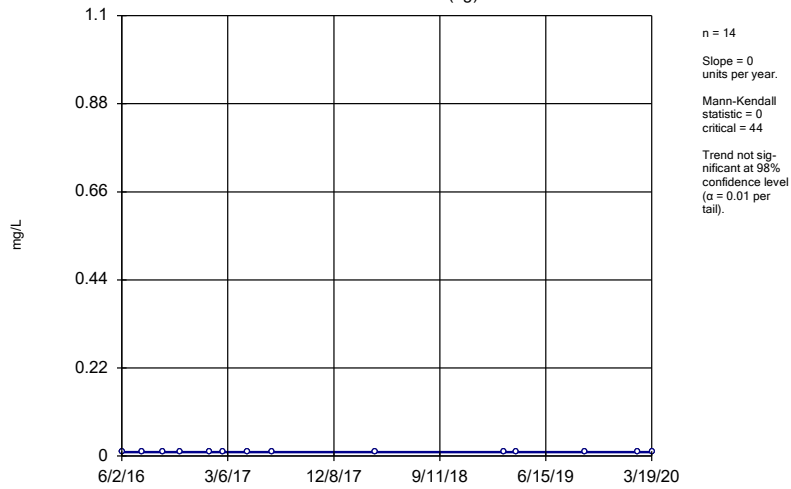
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-21 (bg)



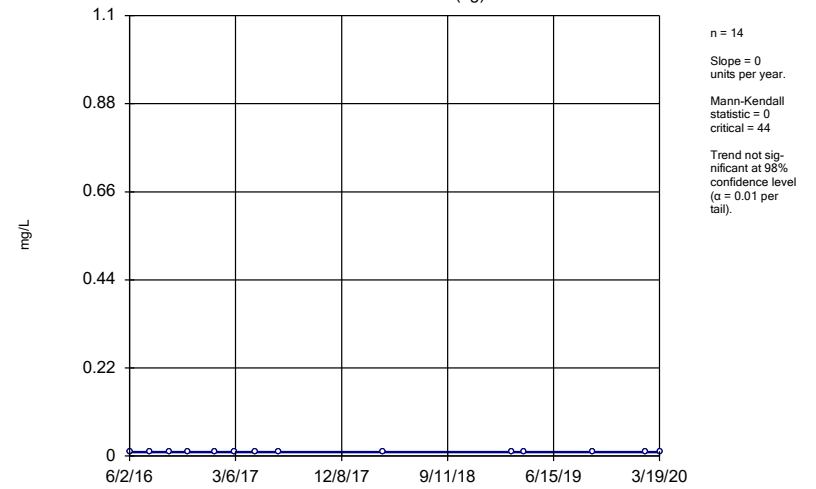
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



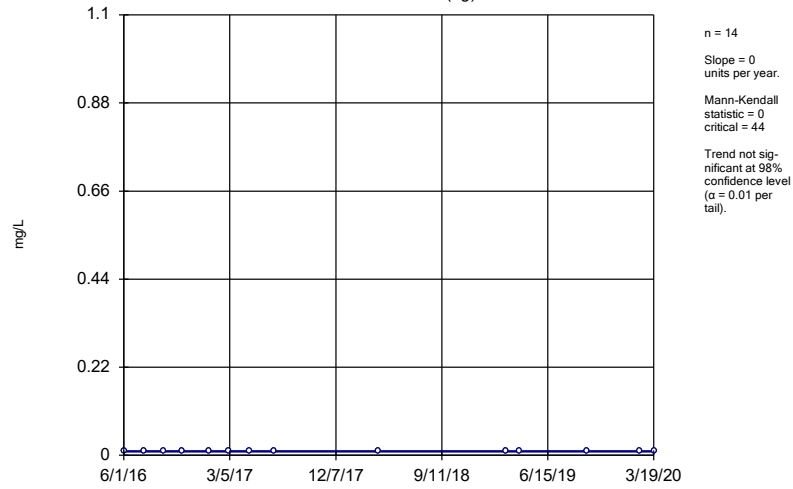
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



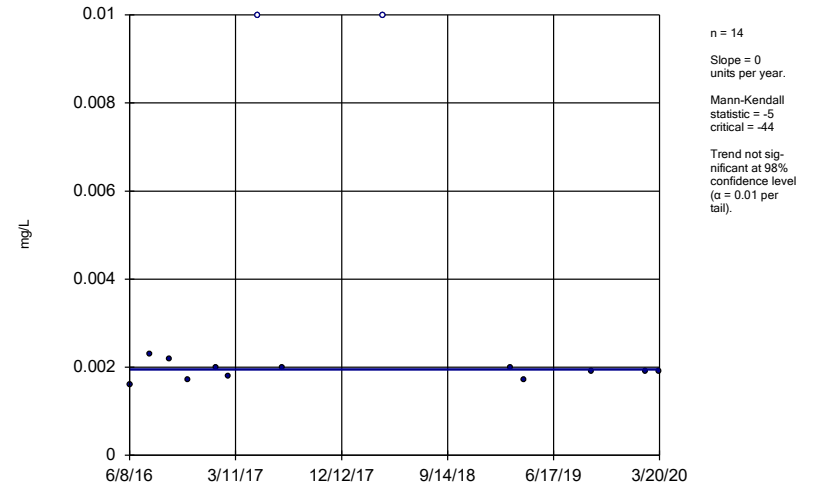
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-3I (bg)



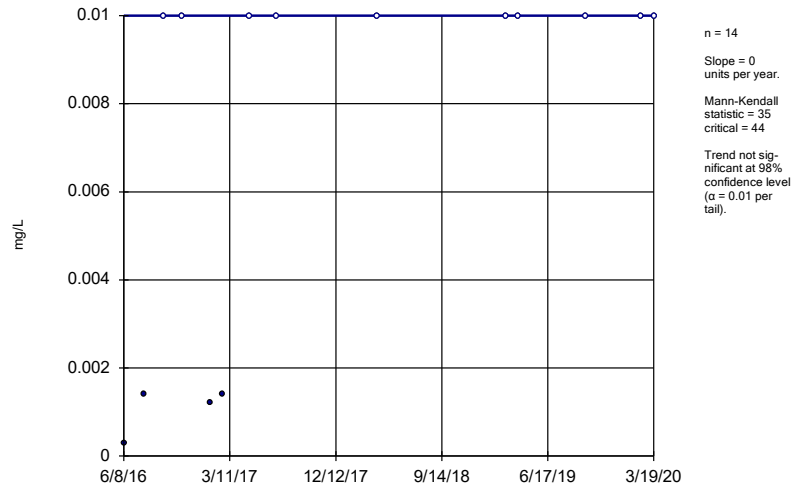
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-26I



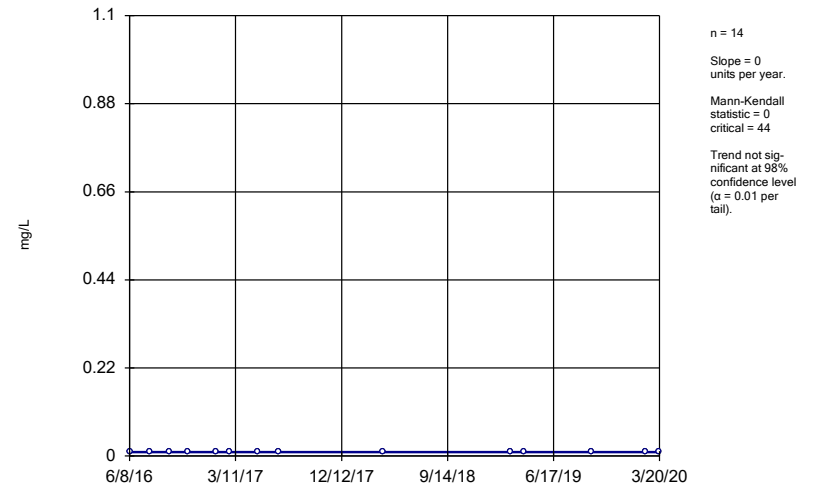
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-26S



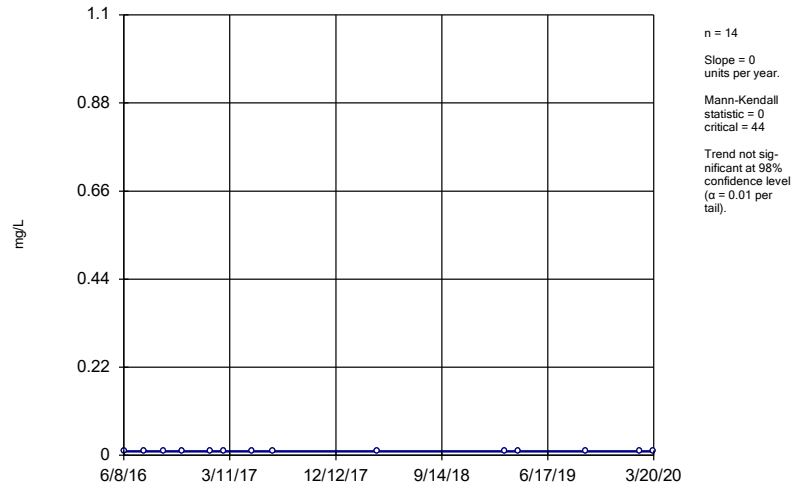
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-27I



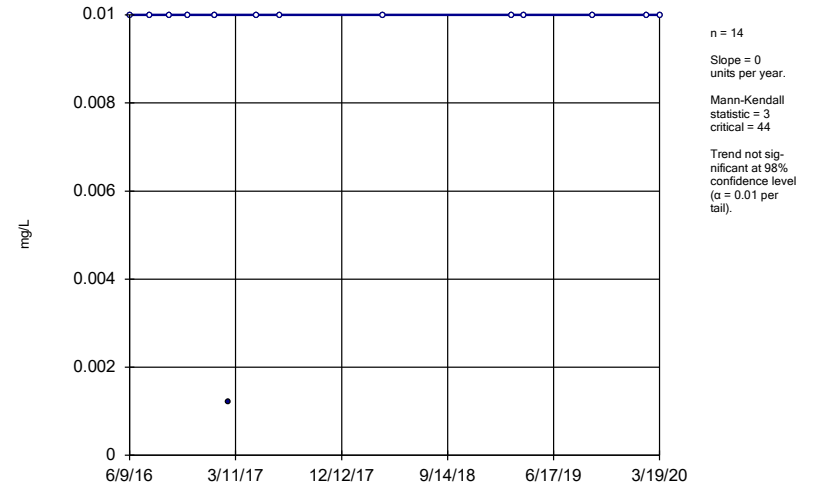
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



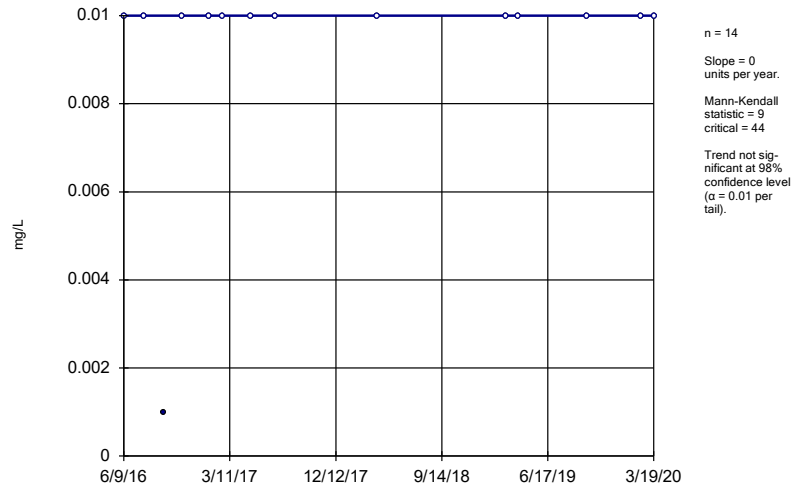
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



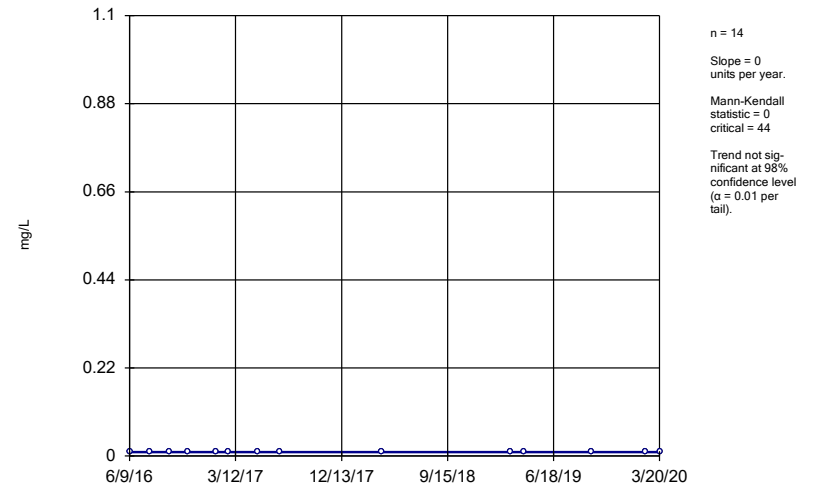
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



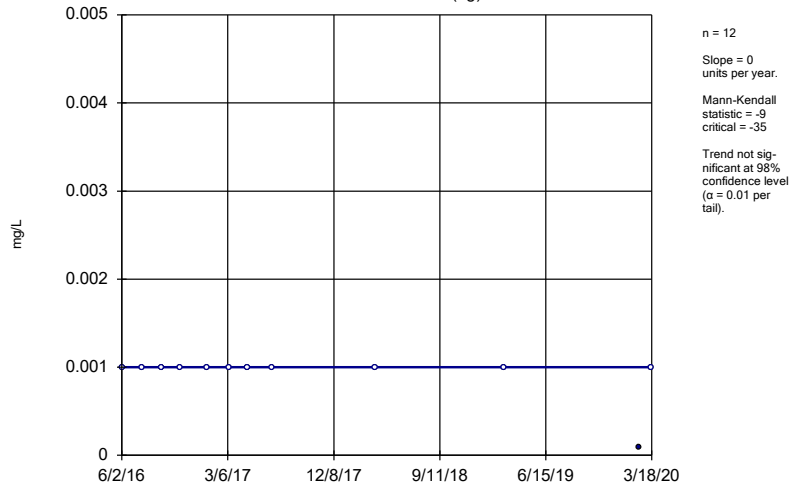
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



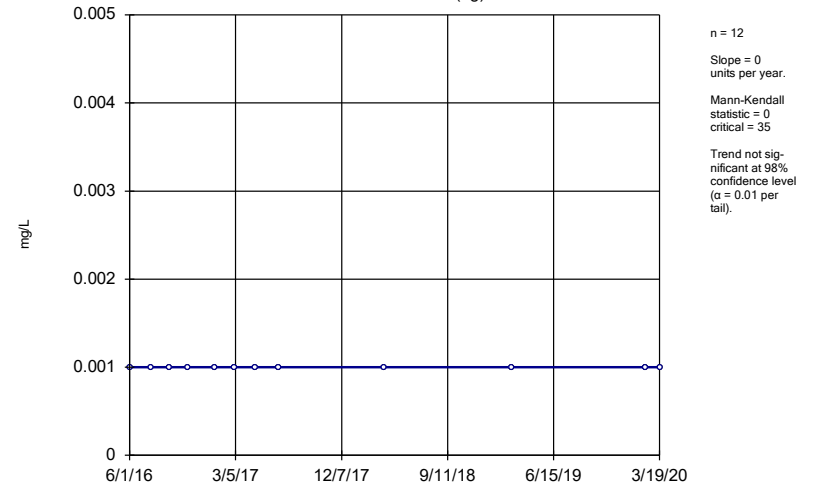
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



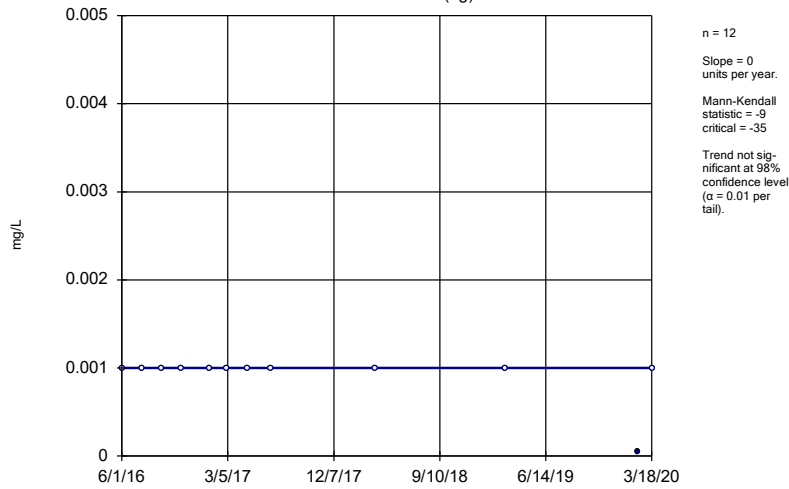
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



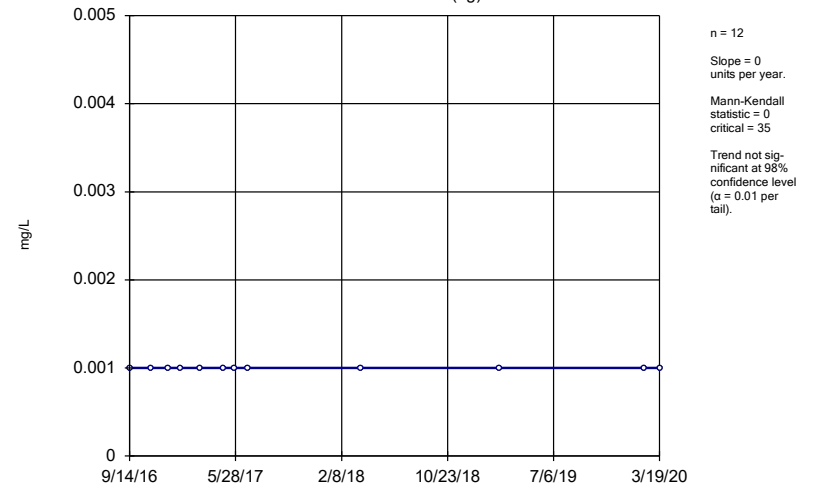
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



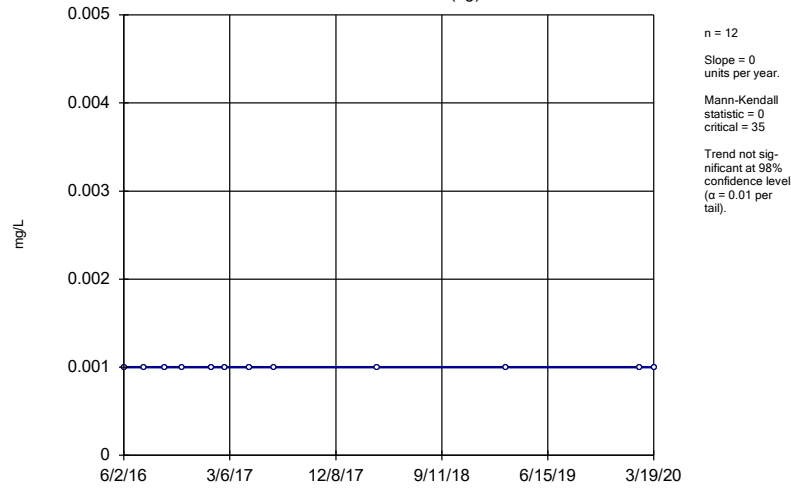
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-2I (bg)



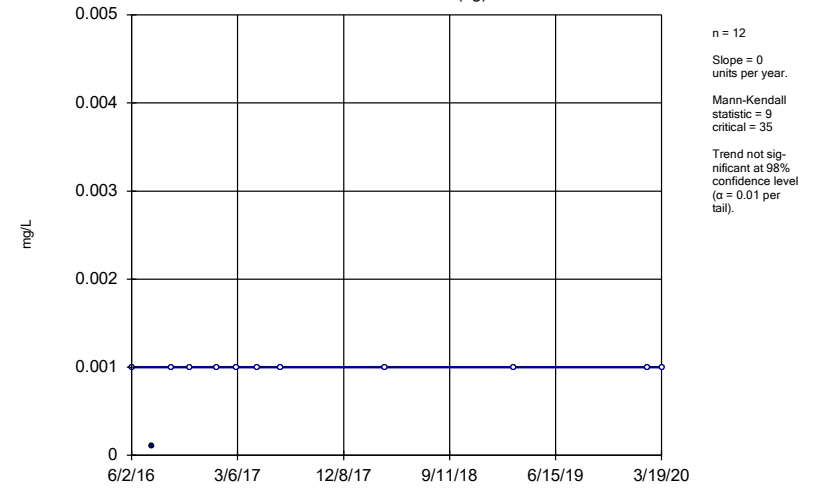
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



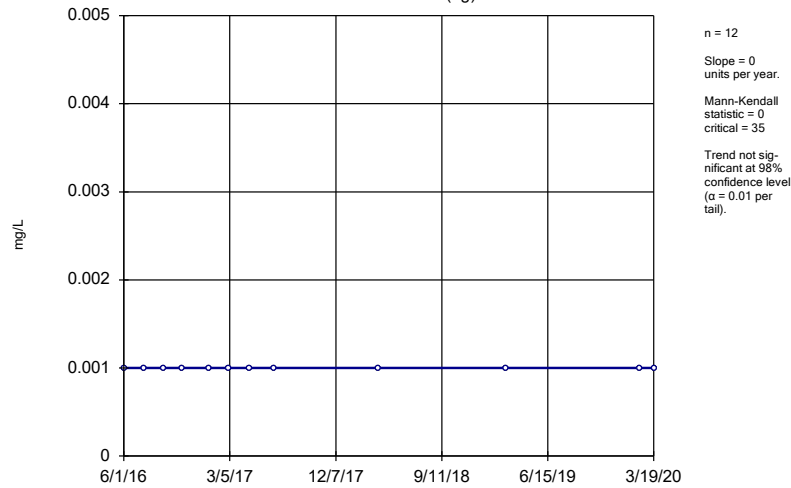
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



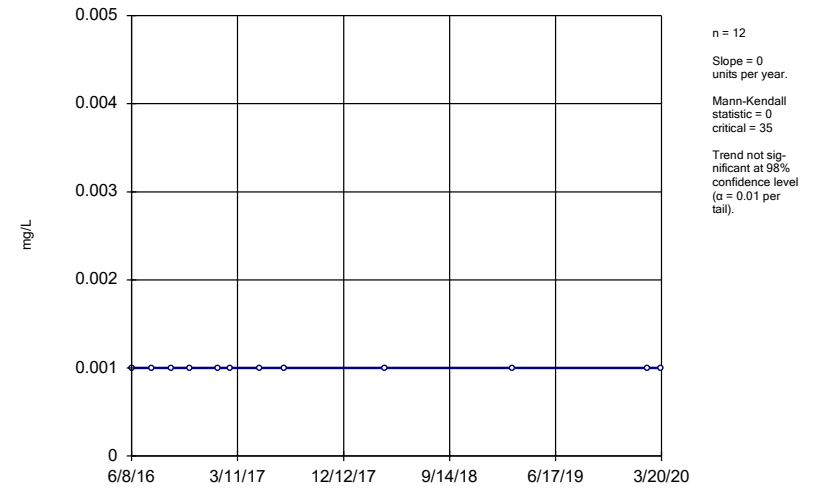
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



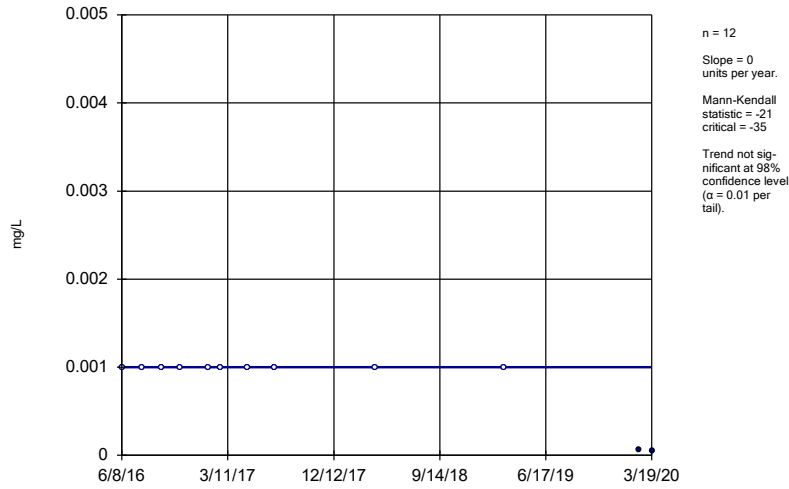
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I



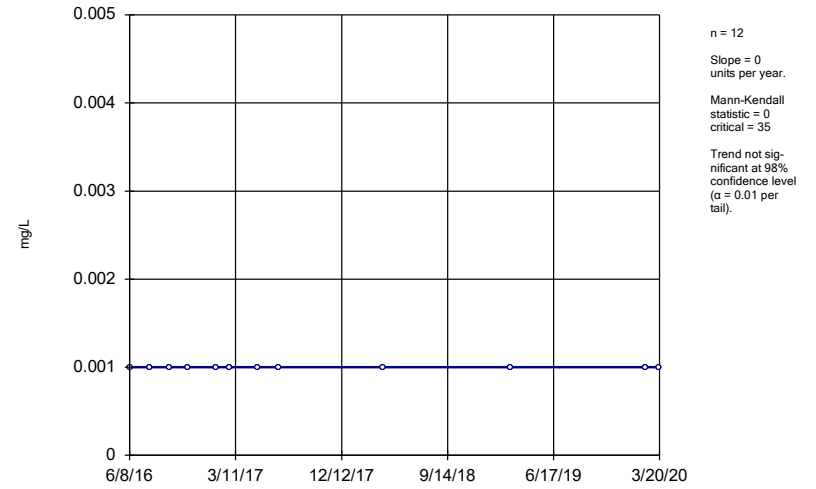
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



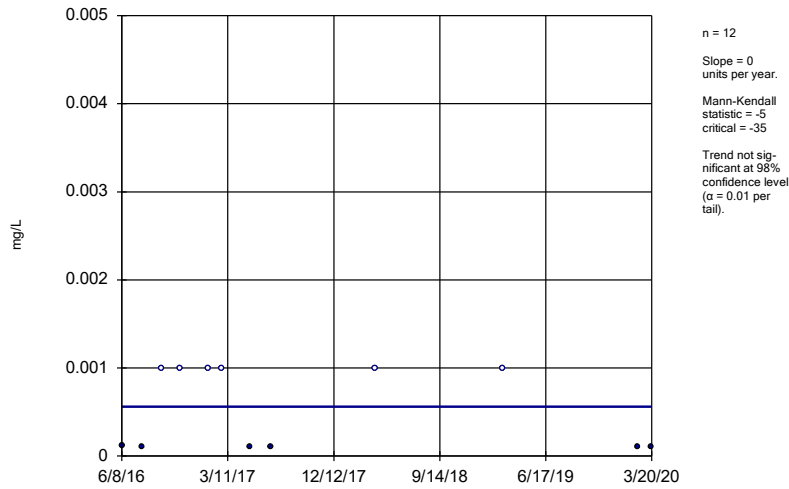
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



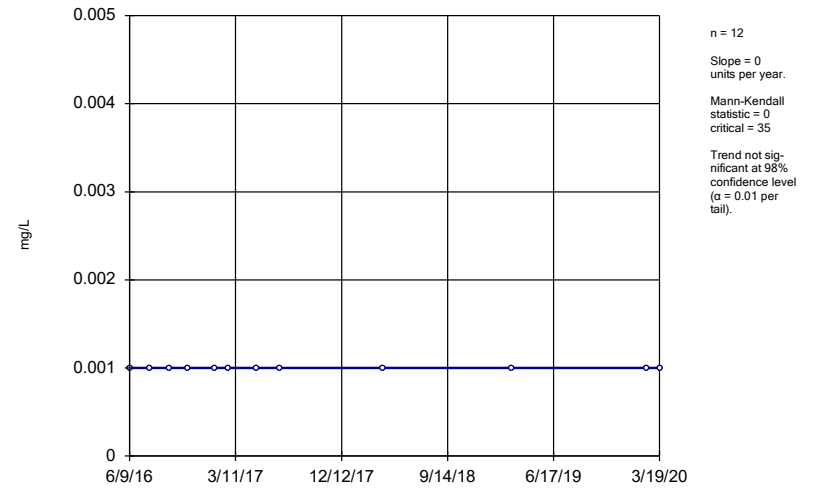
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



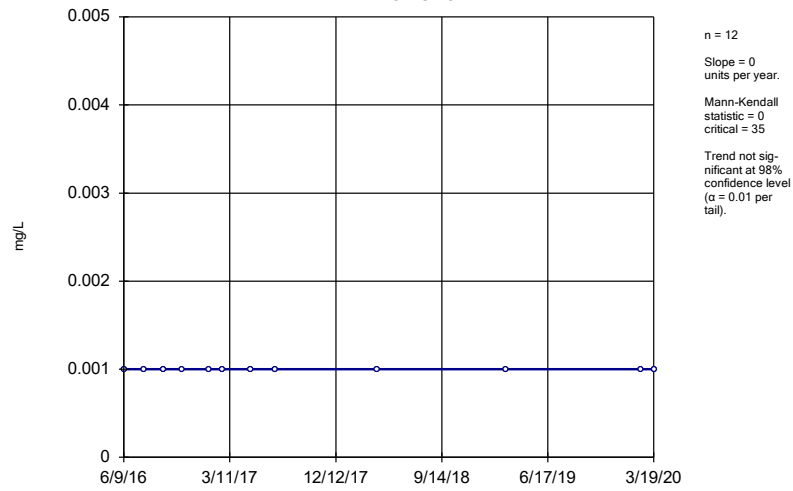
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



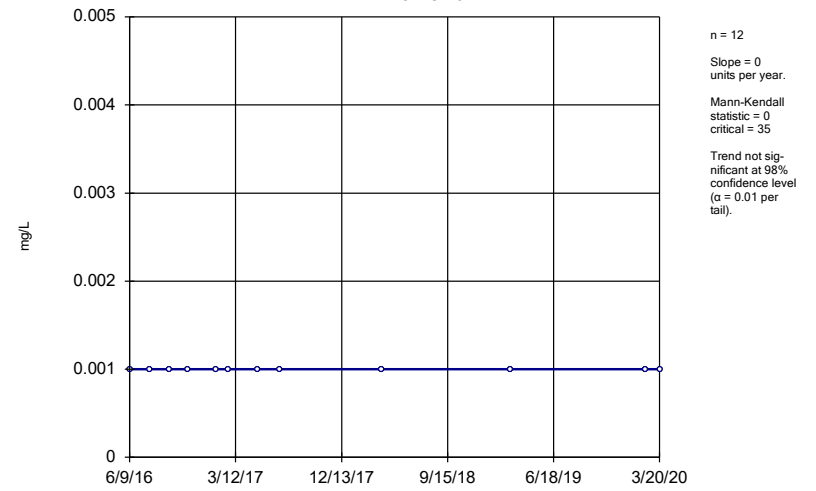
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE E.

Appendix III Interwell Prediction Limits Summary Table - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:55 PM

| Constituent | Well | Upper Lim. | Lower Lim | Date | Observ. | Sig. | Bg | NBq | Mean | Std. Dev. | %NDs | ND Adj. | Alpha | Method |
|-----------------|----------|------------|-----------|-----------|---------|------|----|-------|-------|-----------|-------|---------|-----------|-----------------------------|
| Boron (mg/L) | YGWC-26I | 0.04 | n/a | 3/20/2020 | 0.94 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-26S | 0.04 | n/a | 3/19/2020 | 0.73 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27I | 0.04 | n/a | 3/20/2020 | 2.1 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27S | 0.04 | n/a | 3/20/2020 | 1.4 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28I | 0.04 | n/a | 3/19/2020 | 2.4 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28S | 0.04 | n/a | 3/19/2020 | 2.5 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-29I | 0.04 | n/a | 3/20/2020 | 0.8 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | YGWC-27S | 31.5 | n/a | 3/20/2020 | 42.1 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-28I | 31.5 | n/a | 3/19/2020 | 37.3 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-26I | 5.2 | n/a | 3/20/2020 | 17.7 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-26S | 5.2 | n/a | 3/19/2020 | 15.4 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27I | 5.2 | n/a | 3/20/2020 | 13 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27S | 5.2 | n/a | 3/20/2020 | 17.7 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-28I | 5.2 | n/a | 3/19/2020 | 16 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-28S | 5.2 | n/a | 3/19/2020 | 18.1 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-29I | 5.2 | n/a | 3/20/2020 | 11.3 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-26I | 12.46 | n/a | 3/20/2020 | 84.7 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-26S | 12.46 | n/a | 3/19/2020 | 99.4 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-27S | 12.46 | n/a | 3/20/2020 | 21.1 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-29I | 12.46 | n/a | 3/20/2020 | 33 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |

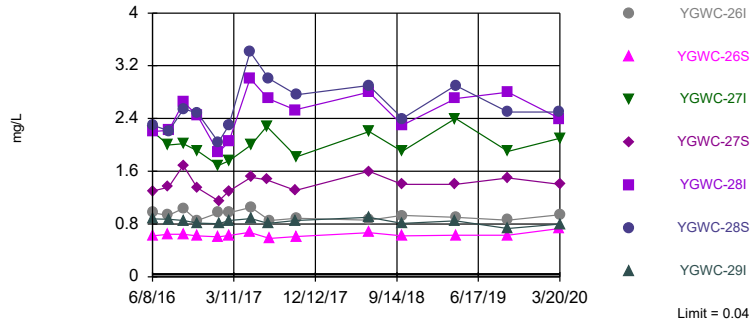
Appendix III Interwell Prediction Limits Summary Table - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:55 PM

| Constituent | Well | Upper Lim. | Lower Lim | Date | Observ. | Sig. | Bg | NBq | Mean | Std. Dev. | %NDs | ND Adj. | Alpha | Method |
|-------------------------------|----------|------------|-----------|-----------|---------|------|-----|-------|-------|-----------|-------|---------|-----------|-----------------------------|
| Boron (mg/L) | YGWC-26I | 0.04 | n/a | 3/20/2020 | 0.94 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-26S | 0.04 | n/a | 3/19/2020 | 0.73 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27I | 0.04 | n/a | 3/20/2020 | 2.1 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27S | 0.04 | n/a | 3/20/2020 | 1.4 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28I | 0.04 | n/a | 3/19/2020 | 2.4 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28S | 0.04 | n/a | 3/19/2020 | 2.5 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-29I | 0.04 | n/a | 3/20/2020 | 0.8 | Yes | 98 | n/a | n/a | n/a | 57.14 | n/a | 0.0002018 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | YGWC-26I | 31.5 | n/a | 3/20/2020 | 17.1 | No | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-26S | 31.5 | n/a | 3/19/2020 | 13 | No | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-27I | 31.5 | n/a | 3/20/2020 | 30.3 | No | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-27S | 31.5 | n/a | 3/20/2020 | 42.1 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-28I | 31.5 | n/a | 3/19/2020 | 37.3 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-28S | 31.5 | n/a | 3/19/2020 | 30.4 | No | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-29I | 31.5 | n/a | 3/20/2020 | 12.7 | No | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-26I | 5.2 | n/a | 3/20/2020 | 17.7 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-26S | 5.2 | n/a | 3/19/2020 | 15.4 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27I | 5.2 | n/a | 3/20/2020 | 13 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27S | 5.2 | n/a | 3/20/2020 | 17.7 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-28I | 5.2 | n/a | 3/19/2020 | 16 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-28S | 5.2 | n/a | 3/19/2020 | 18.1 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-29I | 5.2 | n/a | 3/20/2020 | 11.3 | Yes | 98 | n/a | n/a | n/a | 0 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | YGWC-26I | 0.68 | n/a | 3/20/2020 | 0.06 | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-26S | 0.68 | n/a | 3/19/2020 | 0.3ND | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-27I | 0.68 | n/a | 3/20/2020 | 0.3ND | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-27S | 0.68 | n/a | 3/20/2020 | 0.097 | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-28I | 0.68 | n/a | 3/19/2020 | 0.07 | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-28S | 0.68 | n/a | 3/19/2020 | 0.16 | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-29I | 0.68 | n/a | 3/20/2020 | 0.057 | No | 119 | n/a | n/a | n/a | 52.94 | n/a | 0.0001378 | NP Inter (NDs) 1 of 2 |
| pH (S.U.) | YGWC-26I | 7.91 | 5.02 | 3/20/2020 | 5.94 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-26S | 7.91 | 5.02 | 3/19/2020 | 5.46 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-27I | 7.91 | 5.02 | 3/20/2020 | 6.32 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-27S | 7.91 | 5.02 | 3/20/2020 | 6.18 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-28I | 7.91 | 5.02 | 3/19/2020 | 7.01 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-28S | 7.91 | 5.02 | 3/19/2020 | 6.98 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-29I | 7.91 | 5.02 | 3/20/2020 | 6.17 | No | 119 | n/a | n/a | n/a | 0 | n/a | 0.0002756 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-26I | 12.46 | n/a | 3/20/2020 | 84.7 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-26S | 12.46 | n/a | 3/19/2020 | 99.4 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-27I | 12.46 | n/a | 3/20/2020 | 5.2 | No | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-27S | 12.46 | n/a | 3/20/2020 | 21.1 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-28I | 12.46 | n/a | 3/19/2020 | 9.1 | No | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-28S | 12.46 | n/a | 3/19/2020 | 1.7 | No | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Sulfate (mg/L) | YGWC-29I | 12.46 | n/a | 3/20/2020 | 33 | Yes | 98 | 6.415 | 3.211 | 2.041 | 2.041 | None | 0.001075 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-26I | 223 | n/a | 3/20/2020 | 211 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-26S | 223 | n/a | 3/19/2020 | 194 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-27I | 223 | n/a | 3/20/2020 | 195 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-27S | 223 | n/a | 3/20/2020 | 182 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-28I | 223 | n/a | 3/19/2020 | 212 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-28S | 223 | n/a | 3/19/2020 | 202 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-29I | 223 | n/a | 3/20/2020 | 137 | No | 98 | n/a | n/a | n/a | 2.041 | n/a | 0.0002018 | NP Inter (normality) 1 of 2 |

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Prediction Limit Interwell Non-parametric

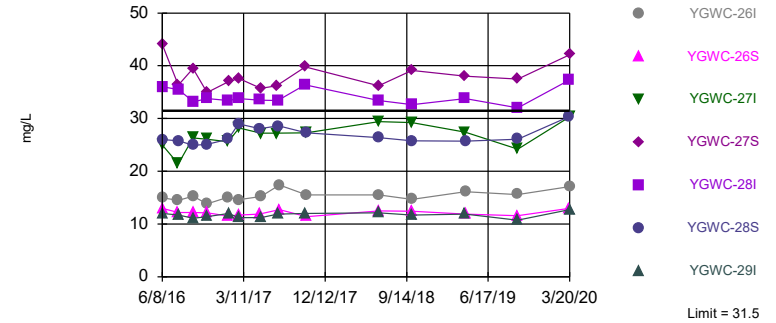


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 98 background values. 57.14% NDs. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.0002018 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-27S, YGWC-28I

Prediction Limit Interwell Non-parametric

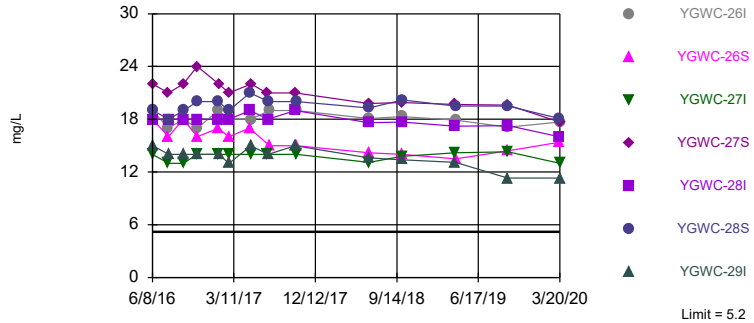


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.0002018 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Prediction Limit Interwell Non-parametric



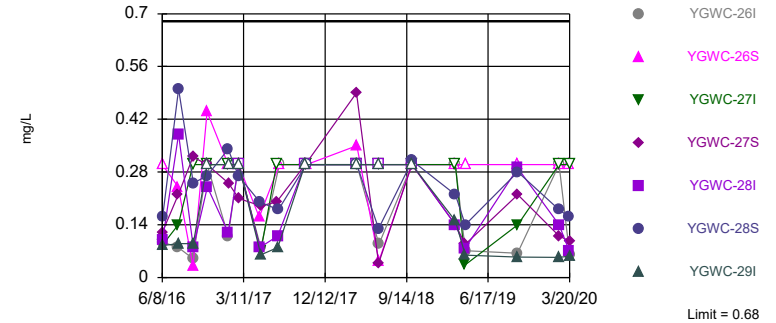
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.0002018 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Hollow symbols indicate censored values.

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 119 background values. 52.94% NDs. Annual per-constituent alpha = 0.001928. Individual comparison alpha = 0.0001378 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-14S (bg) | YGWC-27S | YGWC-27I | YGWC-26S |
|------------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/1/2016 | <0.04 | <0.04 | <0.04 | | | | | | |
| 6/2/2016 | | | | <0.04 | <0.04 | <0.04 | | | |
| 6/8/2016 | | | | | | | 1.3 | 2.2 | 0.62 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | <0.04 | <0.04 | | <0.04 | | | | | |
| 7/26/2016 | | | 0.0055 (J) | | 0.0097 (J) | 0.0177 (J) | | | |
| 8/1/2016 | | | | | | | 1.36 | 2 | 0.643 |
| 8/2/2016 | | | | | | | | | |
| 9/13/2016 | <0.04 | | <0.04 | | | | | | |
| 9/14/2016 | | <0.04 | | | | | | | |
| 9/15/2016 | | | | | 0.0102 (J) | 0.0214 (J) | | | |
| 9/19/2016 | | | | <0.04 | | | | | |
| 9/20/2016 | | | | | | | 1.69 | 2.02 | 0.644 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | <0.04 | 0.0086 (J) | <0.04 | <0.04 | | | | |
| 11/2/2016 | | | | | | <0.04 (*) | | | |
| 11/4/2016 | <0.04 | | | | | | | | |
| 11/7/2016 | | | | | | | 1.35 | 1.91 | 0.621 |
| 11/8/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | 0.0198 (J) | | | |
| 1/11/2017 | | <0.04 | 0.0074 (J) | | <0.04 | | | | |
| 1/16/2017 | <0.04 | | | <0.04 | | | | | |
| 1/18/2017 | | | | | | | | 1.69 | 0.607 |
| 1/19/2017 | | | | | | | 1.15 | | |
| 2/21/2017 | | | | <0.04 | | | | | 0.624 |
| 2/22/2017 | | | | | | | 1.3 | | |
| 2/23/2017 | | | | | | | | 1.76 | |
| 3/1/2017 | | <0.04 (*) | | | | | | | |
| 3/2/2017 | <0.04 | | 0.008 (J) | | 0.0084 (J) | | | | |
| 3/3/2017 | | | | | | | | | |
| 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 | | | | | | | | | |
| 5/3/2017 | | | | | | | | | 0.676 |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 1.51 | 2 | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | 0.006 (J) | | 0.0087 (J) | | | | | | |
| 6/28/2017 | | <0.04 | | | <0.04 | | | | |
| 6/30/2017 | | | | <0.04 | | 0.0173 (J) | 1.47 | 2.28 | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | 0.58 |
| 10/3/2017 | 0.0071 (J) | | 0.0072 (J) | | | | | | |
| 10/4/2017 | | <0.04 | | <0.04 | <0.04 | | | | |
| 10/5/2017 | | | | | | 0.0173 (J) | | | |
| 10/6/2017 | | | | | | | 1.31 | | |
| 10/9/2017 | | | | | | | | 1.82 | |
| 10/10/2017 | | | | | | | | | 0.612 |
| 6/5/2018 | | | 0.0052 (J) | | | | | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-14S (bg) | YGWC-27S | YGWC-27I | YGWC-26S |
|-----------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/6/2018 | <0.04 | | | | | | | | |
| 6/7/2018 | | | | | 0.004 (J) | | | | |
| 6/8/2018 | | <0.04 | | | | 0.013 (J) | | | |
| 6/11/2018 | | | | 0.014 (J) | | | | | |
| 6/12/2018 | | | | | | | 1.6 | | |
| 6/13/2018 | | | | | | | | 2.2 | 0.67 |
| 10/1/2018 | 0.0049 (J) | <0.04 | 0.021 (J) | | <0.04 | 0.015 (J) | | | |
| 10/2/2018 | | | | <0.04 | | | 1.4 | 1.9 | 0.62 |
| 10/3/2018 | | | | | | | | | |
| 3/28/2019 | <0.04 | | 0.005 (J) | | | | | | |
| 3/29/2019 | | | | | | 0.014 (J) | | | |
| 4/1/2019 | | <0.04 | | <0.04 | <0.04 | | 1.4 | 2.4 | |
| 4/2/2019 | | | | | | | | | 0.63 |
| 9/24/2019 | 0.0055 (J) | | 0.0064 (J) | | | | | | |
| 9/25/2019 | | <0.04 | | <0.04 | 0.0054 (J) | 0.018 (J) | | | 0.63 |
| 9/26/2019 | | | | | | | 1.5 | 1.9 | |
| 3/18/2020 | 0.0087 (J) | | | | | 0.02 (J) | | | |
| 3/19/2020 | | 0.0053 (J) | 0.0085 (J) | 0.0052 (J) | 0.0073 (J) | | | | 0.73 |
| 3/20/2020 | | | | | | | 1.4 | 2.1 | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWC-26I | YGWC-28I | YGWC-29I | YGWC-28S | YGWA-2I (bg) |
|------------|----------|----------|----------|----------|--------------|
| 6/1/2016 | | | | | |
| 6/2/2016 | | | | | |
| 6/8/2016 | 0.97 | | | | |
| 6/9/2016 | | 2.2 | 0.88 | 2.3 | |
| 7/25/2016 | | | | | |
| 7/26/2016 | | | | | |
| 8/1/2016 | 0.932 | | | | |
| 8/2/2016 | | 2.22 | 0.872 | 2.21 | |
| 9/13/2016 | | | | | |
| 9/14/2016 | | | | | <0.04 |
| 9/15/2016 | | | | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 1.04 | | | | |
| 9/21/2016 | | 2.65 | 0.853 | 2.54 | |
| 11/1/2016 | | | | | |
| 11/2/2016 | | | | | |
| 11/4/2016 | | | | | <0.04 |
| 11/7/2016 | 0.852 | | 0.815 | 2.49 | |
| 11/8/2016 | | 2.44 | | | |
| 12/15/2016 | | | | | 0.0107 (J) |
| 1/10/2017 | | | | | |
| 1/11/2017 | | | | | |
| 1/16/2017 | | | | | <0.04 |
| 1/18/2017 | 0.972 | 1.88 | | 2.04 | |
| 1/19/2017 | | | 0.803 | | |
| 2/21/2017 | 0.972 | | | 2.29 | |
| 2/22/2017 | | 2.05 | 0.855 | | |
| 2/23/2017 | | | | | |
| 3/1/2017 | | | | | |
| 3/2/2017 | | | | | |
| 3/3/2017 | | | | | <0.04 |
| 3/8/2017 | | | | | |
| 4/26/2017 | | | | | |
| 4/27/2017 | | | | | |
| 4/28/2017 | | | | | <0.04 |
| 5/3/2017 | | | | | |
| 5/5/2017 | | 3.01 | | 3.41 | |
| 5/8/2017 | 1.05 | | 0.884 | | |
| 5/26/2017 | | | | | <0.04 |
| 6/27/2017 | | | | | |
| 6/28/2017 | | | | | <0.04 |
| 6/30/2017 | | | | | |
| 7/5/2017 | | 2.7 | 0.811 | | |
| 7/7/2017 | | | | 3.01 | |
| 7/10/2017 | 0.855 | | | | |
| 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 | 0.887 | | | | |
| 6/5/2018 | | | | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-28I | YGWC-29I | YGWC-28S | YGWA-2I (bg) |
|-----------|----------|----------|----------|----------|--------------|
| 6/6/2018 | | | | | |
| 6/7/2018 | | | | | <0.04 |
| 6/8/2018 | | | | | |
| 6/11/2018 | | | 0.9 | | |
| 6/12/2018 | | 2.8 | | 2.9 | |
| 6/13/2018 | 0.86 | | | | |
| 10/1/2018 | | | | | <0.04 |
| 10/2/2018 | 0.93 | | 0.81 | | |
| 10/3/2018 | | 2.3 | | 2.4 | |
| 3/28/2019 | | | | | |
| 3/29/2019 | | | | | 0.0065 (J) |
| 4/1/2019 | | 2.7 | 0.85 | | |
| 4/2/2019 | 0.9 | | | 2.9 | |
| 9/24/2019 | | | | | 0.0076 (J) |
| 9/25/2019 | 0.86 | | 0.73 | | |
| 9/26/2019 | | 2.8 | | 2.5 | |
| 3/18/2020 | | | | | |
| 3/19/2020 | | 2.4 | | 2.5 | 0.0073 (J) |
| 3/20/2020 | 0.94 | | 0.8 | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-14S (bg) | YGWC-27S | YGWC-27I | YGWC-26S |
|------------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/1/2016 | 2.5 | 21 | 12 | | | | | | |
| 6/2/2016 | | | | 1.3 | 28 | 1.3 | | | |
| 6/8/2016 | | | | | | | 44 | 25 | 13 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 2.16 | 20.3 | | 1.17 | | | | | |
| 7/26/2016 | | | 11 | | 24.5 | 1.24 | | | |
| 8/1/2016 | | | | | | | 36.3 | 21.4 | 12.2 |
| 8/2/2016 | | | | | | | | | |
| 9/13/2016 | 2.21 | | 11.8 | | | | | | |
| 9/14/2016 | | 19.7 | | | | | | | |
| 9/15/2016 | | | | | 27 | 1.17 | | | |
| 9/19/2016 | | | | 1.05 | | | | | |
| 9/20/2016 | | | | | | | 39.5 | 26.3 | 12.2 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | 18.4 | 11 | 1.14 | 25.6 | | | | |
| 11/2/2016 | | | | | | 1.23 | | | |
| 11/4/2016 | 2.67 | | | | | | | | |
| 11/7/2016 | | | | | | | 34.9 | 26.1 | 12.1 |
| 11/8/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | 1.24 | | | |
| 1/11/2017 | | 20.3 | 11.2 | | 27.5 | | | | |
| 1/16/2017 | 2.45 | | | 1.23 | | | | | |
| 1/18/2017 | | | | | | | | 25.6 | 11.5 |
| 1/19/2017 | | | | | | | 37 | | |
| 2/21/2017 | | | | 1.25 | | | | | 11.7 |
| 2/22/2017 | | | | | | | 37.6 | | |
| 2/23/2017 | | | | | | | | 28.2 | |
| 3/1/2017 | | 18.6 | | | | | | | |
| 3/2/2017 | 2.57 | | 11 | | 27.5 | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/8/2017 | | | | | | 1.21 | | | |
| 4/26/2017 | | 25.6 | | 1.03 | 30.4 | 1.14 | | | |
| 4/27/2017 | 2.38 | | 11.1 | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/3/2017 | | | | | | | | | 11.9 |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 35.7 | 27.2 | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | 2.36 | | 13.8 | | | | | | |
| 6/28/2017 | | 23.9 | | | 29.8 | | | | |
| 6/30/2017 | | | | 1.13 | | 1.24 | 36.2 | 27.2 | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | 12.7 |
| 10/3/2017 | 2.21 | | 14 | | | | | | |
| 10/4/2017 | | 22.1 | | 1.09 | 29.7 | | | | |
| 10/5/2017 | | | | | | 1.11 | | | |
| 10/6/2017 | | | | | | | 39.8 | | |
| 10/9/2017 | | | | | | | | 27.3 | |
| 10/10/2017 | | | | | | | | | 11.4 |
| 6/5/2018 | | | 15.2 (J) | | | | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-14S (bg) | YGWC-27S | YGWC-27I | YGWC-26S |
|-----------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/6/2018 | 2.3 | | | | | | | | |
| 6/7/2018 | | | | | 29.1 | | | | |
| 6/8/2018 | | 21.9 (J) | | | | 1.1 | | | |
| 6/11/2018 | | | | 1.1 | | | | | |
| 6/12/2018 | | | | | | | 36.2 | | |
| 6/13/2018 | | | | | | | | 29.4 | 12.5 |
| 10/1/2018 | 1.8 | 19.7 | 15.1 | | 26.9 | 0.99 | | | |
| 10/2/2018 | | | | 1.1 | | | 39.1 | 29.2 | 12.4 (J) |
| 10/3/2018 | | | | | | | | | |
| 3/28/2019 | 2.2 | | 13.3 (J) | | | | | | |
| 3/29/2019 | | | | | | 1.1 | | | |
| 4/1/2019 | | 20.4 (J) | | 1.3 | 30.1 | | 38 | 27.4 | |
| 4/2/2019 | | | | | | | | | 11.9 (J) |
| 9/24/2019 | 2.3 | | 15.8 | | | | | | |
| 9/25/2019 | | 22.4 | | 1.1 | 29.5 | 1.1 | | | 11.6 |
| 9/26/2019 | | | | | | | 37.5 | 24.2 | |
| 3/18/2020 | 2.1 | | | | | 1.1 | | | |
| 3/19/2020 | | 21.9 | 15 | 1.2 | 31.5 | | | | 13 |
| 3/20/2020 | | | | | | | 42.1 | 30.3 | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWC-26I | YGWC-28I | YGWC-29I | YGWC-28S | YGWA-2I (bg) |
|------------|----------|----------|----------|----------|--------------|
| 6/1/2016 | | | | | |
| 6/2/2016 | | | | | |
| 6/8/2016 | 15 | | | | |
| 6/9/2016 | | 36 | 12 | 26 | |
| 7/25/2016 | | | | | |
| 7/26/2016 | | | | | |
| 8/1/2016 | 14.5 | | | | |
| 8/2/2016 | | 35.5 | 11.7 | 25.8 | |
| 9/13/2016 | | | | | |
| 9/14/2016 | | | | | 23.5 |
| 9/15/2016 | | | | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 15.3 | | | | |
| 9/21/2016 | | 33.2 | 11.1 | 24.9 | |
| 11/1/2016 | | | | | |
| 11/2/2016 | | | | | |
| 11/4/2016 | | | | | 23.7 |
| 11/7/2016 | 13.8 | | 11.4 | 25.1 | |
| 11/8/2016 | | 33.8 | | | |
| 12/15/2016 | | | | | 23.1 |
| 1/10/2017 | | | | | |
| 1/11/2017 | | | | | |
| 1/16/2017 | | | | | 23.3 |
| 1/18/2017 | 15.1 | 33.4 | | 26.1 | |
| 1/19/2017 | | | 12 | | |
| 2/21/2017 | 14.6 | | | 29 | |
| 2/22/2017 | | 33.8 | 11.2 | | |
| 2/23/2017 | | | | | |
| 3/1/2017 | | | | | |
| 3/2/2017 | | | | | |
| 3/3/2017 | | | | | 25.1 |
| 3/8/2017 | | | | | |
| 4/26/2017 | | | | | |
| 4/27/2017 | | | | | |
| 4/28/2017 | | | | | 30.7 |
| 5/3/2017 | | | | | |
| 5/5/2017 | | 33.5 | | 28.1 | |
| 5/8/2017 | 15.2 | | 11.2 | | |
| 5/26/2017 | | | | | 26.2 |
| 6/27/2017 | | | | | |
| 6/28/2017 | | | | | 26.1 |
| 6/30/2017 | | | | | |
| 7/5/2017 | | 33.4 | 11.9 | | |
| 7/7/2017 | | | | 28.6 | |
| 7/10/2017 | 17.4 | | | | |
| 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 | 15.5 | | | | |
| 6/5/2018 | | | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-28I | YGWC-29I | YGWC-28S | YGWA-2I (bg) |
|-----------|----------|----------|----------|----------|--------------|
| 6/6/2018 | | | | | |
| 6/7/2018 | | | | | 25 |
| 6/8/2018 | | | | | |
| 6/11/2018 | | | 12.1 | | |
| 6/12/2018 | | 33.4 | | 26.4 | |
| 6/13/2018 | 15.5 | | | | |
| 10/1/2018 | | | | | 25 |
| 10/2/2018 | 14.7 | | 11.7 (J) | | |
| 10/3/2018 | | 32.6 | | 25.8 | |
| 3/28/2019 | | | | | |
| 3/29/2019 | | | | | 23.5 (J) |
| 4/1/2019 | | 33.8 | 11.9 (J) | | |
| 4/2/2019 | 16.1 (J) | | | 25.7 | |
| 9/24/2019 | | | | | 26.4 |
| 9/25/2019 | 15.6 | | 10.7 | | |
| 9/26/2019 | | 32 | | 26.1 | |
| 3/18/2020 | | | | | |
| 3/19/2020 | | 37.3 | | 30.4 | 27.4 |
| 3/20/2020 | 17.1 | | 12.7 | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-14S (bg) | YGWC-27S | YGWC-27I | YGWC-26S |
|------------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/1/2016 | 1.6 | 1.3 | 1.3 | | | | | | |
| 6/2/2016 | | | | 1.9 | 1.4 | 4.1 | | | |
| 6/8/2016 | | | | | | | 22 | 14 | 18 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 1.4 | 1.3 | | 1.7 | | | | | |
| 7/26/2016 | | | 1.2 | | 1.6 | 4 | | | |
| 8/1/2016 | | | | | | | 21 | 13 | 16 |
| 8/2/2016 | | | | | | | | | |
| 9/13/2016 | 1.3 | | 1.1 | | | | | | |
| 9/14/2016 | | 1.3 | | | | | | | |
| 9/15/2016 | | | | | 1.5 | 4.2 | | | |
| 9/19/2016 | | | | 1.6 | | | | | |
| 9/20/2016 | | | | | | | 22 | 13 | 18 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | 1.4 | 1.3 | 1.8 | 1.7 | | | | |
| 11/2/2016 | | | | | | 4.9 | | | |
| 11/4/2016 | 1.6 | | | | | | | | |
| 11/7/2016 | | | | | | | 24 | 14 | 16 |
| 11/8/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | 4.1 | | | |
| 1/11/2017 | | 1.1 | 1.1 | | 1.2 | | | | |
| 1/16/2017 | 1.4 | | | 1.7 | | | | | |
| 1/18/2017 | | | | | | | | 14 | 17 |
| 1/19/2017 | | | | | | | 22 | | |
| 2/21/2017 | | | | 1.7 | | | | | 16 |
| 2/22/2017 | | | | | | | 21 | | |
| 2/23/2017 | | | | | | | | 14 | |
| 3/1/2017 | | 1.1 | | | | | | | |
| 3/2/2017 | 1.3 | | 1 | | 1.2 | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/8/2017 | | | | | | 4.2 | | | |
| 4/26/2017 | | 1.1 | | 1.7 | 1.2 | 4.1 | | | |
| 4/27/2017 | 1.3 | | 1 | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/3/2017 | | | | | | | | | 17 |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 22 | 14 | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | 1.4 | | 1.1 | | | | | | |
| 6/28/2017 | | 1.2 | | | 1.3 | | | | |
| 6/30/2017 | | | | 1.8 | | 3.7 | 21 | 14 | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | 15 |
| 10/3/2017 | 1.7 | | 1.1 | | | | | | |
| 10/4/2017 | | 1.2 | | 1.8 | 1.5 | | | | |
| 10/5/2017 | | | | | | 3.8 | | | |
| 10/6/2017 | | | | | | | 21 | | |
| 10/9/2017 | | | | | | | | 14 | |
| 10/10/2017 | | | | | | | | | 15 |
| 6/5/2018 | | | 1.1 | | | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-14S (bg) | YGWC-27S | YGWC-27I | YGWC-26S |
|-----------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/6/2018 | 1.4 | | | | | | | | |
| 6/7/2018 | | | | | 1.2 | | | | |
| 6/8/2018 | | 1.2 | | | | 3.4 | | | |
| 6/11/2018 | | | | 2 | | | | | |
| 6/12/2018 | | | | | | | 19.8 | | |
| 6/13/2018 | | | | | | | | 13.1 | 14.2 |
| 10/1/2018 | 1.4 | 1.2 | 1.1 | | 1.5 | 3.8 | | | |
| 10/2/2018 | | | | 1.8 | | | 19.9 | 13.8 | 14 |
| 10/3/2018 | | | | | | | | | |
| 3/28/2019 | 1.5 | | 1.4 | | | | | | |
| 3/29/2019 | | | | | | 4.2 | | | |
| 4/1/2019 | | 1.1 | | 1.7 | 1.2 | | 19.7 | 14.2 | |
| 4/2/2019 | | | | | | | | | 13.5 |
| 9/24/2019 | 1.3 | | 1.1 | | | | | | |
| 9/25/2019 | | 1.1 | | 1.6 | 1.1 | 4.8 | | | 14.4 |
| 9/26/2019 | | | | | | | 19.6 | 14.3 | |
| 3/18/2020 | 1.4 | | | | | 5.2 | | | |
| 3/19/2020 | | 1.1 | 1.1 | 1.8 | 1.2 | | | | 15.4 |
| 3/20/2020 | | | | | | | 17.7 | 13 | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWC-26I | YGWC-28I | YGWC-29I | YGWC-28S | YGWA-2I (bg) |
|------------|----------|----------|----------|----------|--------------|
| 6/1/2016 | | | | | |
| 6/2/2016 | | | | | |
| 6/8/2016 | 19 | | | | |
| 6/9/2016 | | 18 | 15 | 19 | |
| 7/25/2016 | | | | | |
| 7/26/2016 | | | | | |
| 8/1/2016 | 17 | | | | |
| 8/2/2016 | | 18 | 14 | 18 | |
| 9/13/2016 | | | | | |
| 9/14/2016 | | | | | 1.1 |
| 9/15/2016 | | | | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 18 | | | | |
| 9/21/2016 | | 18 | 14 | 19 | |
| 11/1/2016 | | | | | |
| 11/2/2016 | | | | | |
| 11/4/2016 | | | | | 1.4 |
| 11/7/2016 | 17 | | 14 | 20 | |
| 11/8/2016 | | 18 | | | |
| 12/15/2016 | | | | | 2.9 |
| 1/10/2017 | | | | | |
| 1/11/2017 | | | | | |
| 1/16/2017 | | | | | 0.98 |
| 1/18/2017 | 19 | 18 | | 20 | |
| 1/19/2017 | | | 14 | | |
| 2/21/2017 | 18 | | | 19 | |
| 2/22/2017 | | 18 | 13 | | |
| 2/23/2017 | | | | | |
| 3/1/2017 | | | | | |
| 3/2/2017 | | | | | |
| 3/3/2017 | | | | | 1.1 |
| 3/8/2017 | | | | | |
| 4/26/2017 | | | | | |
| 4/27/2017 | | | | | |
| 4/28/2017 | | | | | 0.91 |
| 5/3/2017 | | | | | |
| 5/5/2017 | | 19 | | 21 | |
| 5/8/2017 | 18 | | 15 | | |
| 5/26/2017 | | | | | 0.93 |
| 6/27/2017 | | | | | |
| 6/28/2017 | | | | | 1 |
| 6/30/2017 | | | | | |
| 7/5/2017 | | 18 | 14 | | |
| 7/7/2017 | | | | 20 | |
| 7/10/2017 | 19 | | | | |
| 10/3/2017 | | | | | 1.2 |
| 10/4/2017 | | | | | |
| 10/5/2017 | | 19 | 15 | | |
| 10/6/2017 | | | | | |
| 10/9/2017 | | | | 20 | |
| 10/10/2017 | 19 | | | | |
| 6/5/2018 | | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-28I | YGWC-29I | YGWC-28S | YGWA-2I (bg) |
|-----------|----------|----------|----------|----------|--------------|
| 6/6/2018 | | | | | |
| 6/7/2018 | | | | | 1 |
| 6/8/2018 | | | | | |
| 6/11/2018 | | | 13.6 | | |
| 6/12/2018 | | 17.6 | | 19.3 | |
| 6/13/2018 | 18.1 | | | | |
| 10/1/2018 | | | | | 1.1 |
| 10/2/2018 | 18.3 | | 13.4 | | |
| 10/3/2018 | | 17.7 | | 20.2 | |
| 3/28/2019 | | | | | |
| 3/29/2019 | | | | | 1.2 |
| 4/1/2019 | | 17.2 | 13.1 | | |
| 4/2/2019 | 17.9 | | | 19.5 | |
| 9/24/2019 | | | | | 0.95 (J) |
| 9/25/2019 | 17.1 | | 11.3 | | |
| 9/26/2019 | | 17.3 | | 19.5 | |
| 3/18/2020 | | | | | |
| 3/19/2020 | | 16 | | 18.1 | 0.97 (J) |
| 3/20/2020 | 17.7 | | 11.3 | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-3D (bg) | YGWA-30I (bg) | YGWC-26S | YGWC-26I | YGWC-27S |
|------------|--------------|--------------|--------------|---------------|--------------|---------------|----------|-----------|----------|
| 6/1/2016 | 0.15 (J) | <0.3 | 0.12 (J) | | | | | | |
| 6/2/2016 | | | | <0.3 | 0.62 | <0.3 | | | |
| 6/8/2016 | | | | | | | <0.3 | 0.094 (J) | 0.12 (J) |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 0.14 (J) | 0.06 (J) | | | | 0.06 (J) | | | |
| 7/26/2016 | | | 0.08 (J) | 0.02 (J) | 0.49 | | | | |
| 8/1/2016 | | | | | | | 0.24 (J) | 0.08 (J) | 0.22 (J) |
| 8/2/2016 | | | | | | | | | |
| 9/13/2016 | | <0.3 | 0.11 (J) | | | | | | |
| 9/14/2016 | 0.18 (J) | | | | | | | | |
| 9/15/2016 | | | | <0.3 | 0.54 | | | | |
| 9/19/2016 | | | | | | <0.3 | | | |
| 9/20/2016 | | | | | | | 0.03 (J) | 0.05 (J) | 0.32 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | <0.3 (*) | | <0.3 (*) | | 0.68 | <0.3 (*) | | | |
| 11/2/2016 | | | | <0.3 (*) | | | | | |
| 11/4/2016 | | <0.3 (*) | | | | | | | |
| 11/7/2016 | | | | | | | 0.44 | <0.3 (*) | <0.3 (*) |
| 11/8/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | <0.3 | | | | | |
| 1/11/2017 | 0.09 (J) | | 0.05 (J) | | 0.49 | | | | |
| 1/16/2017 | | <0.3 (*) | | | | <0.3 | | | |
| 1/18/2017 | | | | | | | <0.3 (*) | 0.11 (J) | |
| 1/19/2017 | | | | | | | | | 0.25 (J) |
| 2/21/2017 | | | | | | <0.3 (*) | <0.3 (*) | <0.3 (*) | |
| 2/22/2017 | | | | | | | | | 0.21 (J) |
| 2/23/2017 | | | | | | | | | |
| 3/1/2017 | <0.3 (*) | | | | | | | | |
| 3/2/2017 | | <0.3 (*) | <0.3 (*) | | 0.48 | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/8/2017 | | | | <0.3 (*) | | | | | |
| 4/26/2017 | 0.08 (J) | | | <0.3 | 0.48 | <0.3 | | | |
| 4/27/2017 | | 0.01 (J) | 0.04 (J) | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/3/2017 | | | | | | | 0.16 (J) | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | | 0.08 (J) | 0.19 (J) |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | <0.3 (*) | <0.3 (*) | | | | | | |
| 6/28/2017 | 0.12 (J) | | | | 0.47 | | | | |
| 6/30/2017 | | | | <0.3 | | <0.3 (*) | | | 0.2 (J) |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | <0.3 (*) | <0.3 (*) | |
| 10/3/2017 | | <0.3 | <0.3 (*) | | | | | | |
| 10/4/2017 | <0.3 (*) | | | | <0.3 (*) | <0.3 | | | |
| 10/5/2017 | | | | <0.3 | | | | | |
| 10/6/2017 | | | | | | | | | <0.3 (*) |
| 10/9/2017 | | | | | | | | | |
| 10/10/2017 | | | | | | | <0.3 | <0.3 | |
| 3/27/2018 | | <0.3 | | <0.3 | | <0.3 | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-3D (bg) | YGWA-30I (bg) | YGWC-26S | YGWC-26I | YGWC-27S |
|-----------|--------------|--------------|--------------|---------------|--------------|---------------|-----------|-----------|-----------|
| 3/28/2018 | <0.3 | | | | 0.56 | | | | |
| 3/29/2018 | | | <0.3 | | | | | | 0.49 |
| 3/30/2018 | | | | | | | 0.35 | <0.3 | |
| 6/5/2018 | | | 0.055 (J) | | | | | | |
| 6/6/2018 | | <0.3 | | | | | | | |
| 6/7/2018 | | | | | 0.48 | | | | |
| 6/8/2018 | 0.2 (J) | | | <0.3 | | | | | |
| 6/11/2018 | | | | | | <0.3 | | | |
| 6/12/2018 | | | | | | | | | 0.037 (J) |
| 6/13/2018 | | | | | | | 0.044 (J) | 0.088 (J) | |
| 10/1/2018 | <0.3 | <0.3 | <0.3 | <0.3 | 0.44 | | | | |
| 10/2/2018 | | | | | | <0.3 | <0.3 | <0.3 | <0.3 |
| 10/3/2018 | | | | | | | | | |
| 2/26/2019 | | | | <0.3 | | <0.3 | | | |
| 2/27/2019 | 0.13 (J) | <0.3 | 0.052 (J) | | 0.53 | | <0.3 | <0.3 | 0.14 (J) |
| 3/28/2019 | | <0.3 | 0.036 (J) | | | | | | |
| 3/29/2019 | | | | <0.3 | | | | | |
| 4/1/2019 | 0.1 (J) | | | | 0.45 | <0.3 | | | 0.088 (J) |
| 4/2/2019 | | | | | | | <0.3 | 0.071 (J) | |
| 9/24/2019 | | <0.3 | 0.063 (J) | | | | | | |
| 9/25/2019 | 0.1 (J) | | | <0.3 | 0.46 | <0.3 | <0.3 | 0.064 (J) | |
| 9/26/2019 | | | | | | | | | 0.22 (J) |
| 2/10/2020 | | <0.3 | 0.061 (J) | | | | | | |
| 2/11/2020 | 0.094 (J) | | | | | | | | |
| 2/12/2020 | | | | <0.3 | 0.4 | <0.3 | | | |
| 2/13/2020 | | | | | | | <0.3 | <0.3 | 0.11 (J) |
| 3/18/2020 | | <0.3 | | <0.3 | | | | | |
| 3/19/2020 | 0.11 (J) | | 0.064 (J) | | 0.51 | <0.3 | <0.3 | | |
| 3/20/2020 | | | | | | | | 0.06 (J) | 0.097 (J) |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWC-27I | YGWC-29I | YGWC-28S | YGWC-28I | YGWA-2I (bg) |
|------------|-----------|-----------|----------|-----------|--------------|
| 6/1/2016 | | | | | |
| 6/2/2016 | | | | | |
| 6/8/2016 | 0.086 (J) | | | | |
| 6/9/2016 | | 0.085 (J) | 0.16 (J) | 0.098 (J) | |
| 7/25/2016 | | | | | |
| 7/26/2016 | | | | | |
| 8/1/2016 | 0.14 (J) | | | | |
| 8/2/2016 | | 0.09 (J) | 0.5 | 0.38 | |
| 9/13/2016 | | | | | |
| 9/14/2016 | | | | | 0.08 (J) |
| 9/15/2016 | | | | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | <0.3 | | | | |
| 9/21/2016 | | 0.09 (J) | 0.25 (J) | 0.08 (J) | |
| 11/1/2016 | | | | | |
| 11/2/2016 | | | | | |
| 11/4/2016 | | | | | <0.3 (*) |
| 11/7/2016 | <0.3 (*) | <0.3 (*) | 0.27 (J) | | |
| 11/8/2016 | | | | 0.24 (J) | |
| 12/15/2016 | | | | | 0.06 (J) |
| 1/10/2017 | | | | | |
| 1/11/2017 | | | | | |
| 1/16/2017 | | | | | 0.1 (J) |
| 1/18/2017 | <0.3 (*) | | 0.34 | 0.12 (J) | |
| 1/19/2017 | | <0.3 (*) | | | |
| 2/21/2017 | | | 0.27 (J) | | |
| 2/22/2017 | | <0.3 (*) | | <0.3 (*) | |
| 2/23/2017 | <0.3 (*) | | | | |
| 3/1/2017 | | | | | |
| 3/2/2017 | | | | | |
| 3/3/2017 | | | | | <0.3 (*) |
| 3/8/2017 | | | | | |
| 4/26/2017 | | | | | |
| 4/27/2017 | | | | | |
| 4/28/2017 | | | | | 0.06 (J) |
| 5/3/2017 | | | | | |
| 5/5/2017 | | | 0.2 (J) | 0.08 (J) | |
| 5/8/2017 | 0.07 (J) | 0.06 (J) | | | |
| 5/26/2017 | | | | | 0.09 (J) |
| 6/27/2017 | | | | | |
| 6/28/2017 | | | | | 0.11 (J) |
| 6/30/2017 | <0.3 (*) | | | | |
| 7/5/2017 | | 0.08 (J) | | 0.11 (J) | |
| 7/7/2017 | | | 0.18 (J) | | |
| 7/10/2017 | | | | | |
| 10/3/2017 | | | | | <0.3 (*) |
| 10/4/2017 | | | | | |
| 10/5/2017 | | <0.3 (*) | | <0.3 (*) | |
| 10/6/2017 | | | | | |
| 10/9/2017 | <0.3 (*) | | <0.3 (*) | | |
| 10/10/2017 | | | | | |
| 3/27/2018 | | | | | |

Prediction Limit

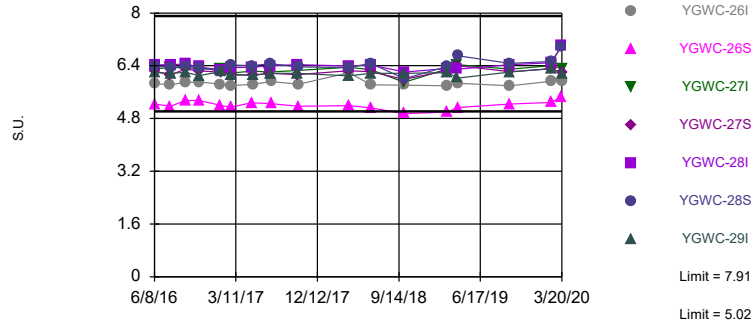
Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWC-27I | YGWC-29I | YGWC-28S | YGWC-28I | YGWA-2I (bg) |
|-----------|-----------|-----------|----------|-----------|--------------|
| 3/28/2018 | | | | | 0.31 |
| 3/29/2018 | <0.3 | <0.3 | | | |
| 3/30/2018 | | | <0.3 | <0.3 | |
| 6/5/2018 | | | | | |
| 6/6/2018 | | | | | |
| 6/7/2018 | | | | | 0.11 (J) |
| 6/8/2018 | | | | | |
| 6/11/2018 | | <0.3 | | | |
| 6/12/2018 | | | 0.13 (J) | <0.3 | |
| 6/13/2018 | <0.3 | | | | |
| 10/1/2018 | | | | | <0.3 |
| 10/2/2018 | <0.3 | <0.3 | | | |
| 10/3/2018 | | | 0.31 | <0.3 | |
| 2/26/2019 | | | | | |
| 2/27/2019 | <0.3 | 0.15 (J) | 0.22 (J) | 0.14 (J) | 0.12 (J) |
| 3/28/2019 | | | | | |
| 3/29/2019 | | | | | 0.13 (J) |
| 4/1/2019 | 0.034 (J) | 0.059 (J) | | 0.078 (J) | |
| 4/2/2019 | | | 0.14 (J) | | |
| 9/24/2019 | | | | | 0.081 (J) |
| 9/25/2019 | | 0.054 (J) | | | |
| 9/26/2019 | 0.14 (J) | | 0.28 (J) | 0.29 (J) | |
| 2/10/2020 | | | | | |
| 2/11/2020 | | | | | 0.075 (J) |
| 2/12/2020 | | | | | |
| 2/13/2020 | <0.3 | 0.053 (J) | 0.18 (J) | 0.14 (J) | |
| 3/18/2020 | | | | | |
| 3/19/2020 | | | 0.16 (J) | 0.07 (J) | 0.093 (J) |
| 3/20/2020 | <0.3 | 0.057 (J) | | | |

Within Limits

Prediction Limit
Interwell Non-parametric

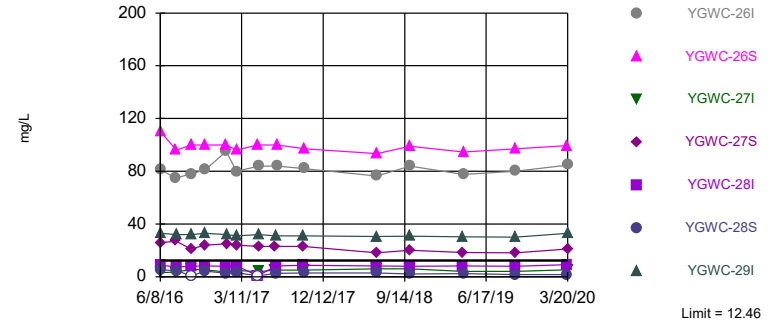


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 119 background values. Annual per-constituent alpha = 0.003855. Individual comparison alpha = 0.0002756 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S,
YGWC-27S, YGWC-29I

Prediction Limit
Interwell Parametric

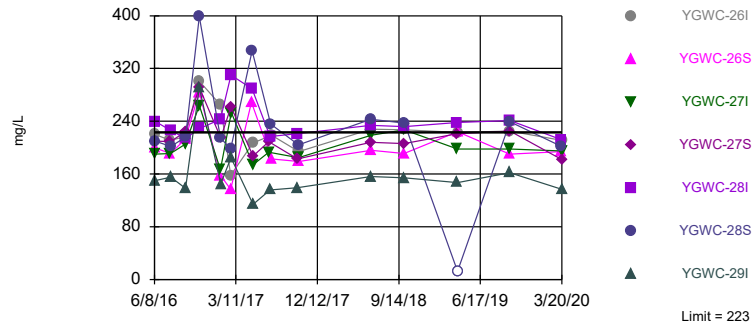


Background Data Summary: Mean=6.415, Std. Dev.=3.211, n=98, 2.041% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.979, critical = 0.966. Kappa = 1.882 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 5/12/2020 3:54 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 Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. 2.041% NDs. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.0002018 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-3D (bg) | YGWA-30I (bg) | YGWC-26I | YGWC-26S | YGWC-27S |
|------------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/1/2016 | 7.72 | 6.33 | 7.46 | | | | | | |
| 6/2/2016 | | | | 5.46 | 7.84 | 5.75 | | | |
| 6/8/2016 | | | | | | | 5.85 | 5.24 | 6.24 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 7.74 | 6.21 | | | | 5.82 | | | |
| 7/26/2016 | | | 7.43 | 5.45 | 7.88 | | | | |
| 8/1/2016 | | | | | | | 5.83 | 5.17 | 6.12 |
| 8/2/2016 | | | | | | | | | |
| 9/13/2016 | | 6.16 | 7.44 | | | | | | |
| 9/14/2016 | 7.65 | | | | | | | | |
| 9/15/2016 | | | | 5.45 | 7.74 | | | | |
| 9/19/2016 | | | | | | 5.78 (D) | | | |
| 9/20/2016 | | | | | | | 5.89 | 5.35 | 6.3 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | 7.7 | | 7.24 | | 7.75 | 5.62 | | | |
| 11/2/2016 | | | | 5.41 | | | | | |
| 11/4/2016 | | 6.29 | | | | | | | |
| 11/7/2016 | | | | | | | 5.91 | 5.35 | 6.25 |
| 11/8/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | 5.37 | | | | | |
| 1/11/2017 | 7.53 | | 7.3 | | 7.66 | | | | |
| 1/16/2017 | | 6.29 | | | | 5.72 | | | |
| 1/18/2017 | | | | | | | 5.84 | 5.2 | |
| 1/19/2017 | | | | | | | | | 6.2 |
| 2/21/2017 | | | | | | 5.67 | 5.79 | 5.14 | |
| 2/22/2017 | | | | | | | | | 6.14 |
| 2/23/2017 | | | | | | | | | |
| 3/1/2017 | 7.42 | | | | | | | | |
| 3/2/2017 | | 6.28 | 7.23 | | 7.68 | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/8/2017 | | | | 5.41 | | | | | |
| 4/26/2017 | 7.4 | | | 5.02 | 7.45 | 5.56 | | | |
| 4/27/2017 | | 6.09 | 6.99 | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/3/2017 | | | | | | | 5.28 | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 5.84 | | 6.11 |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | 6.21 | 6.87 | | | | | | |
| 6/28/2017 | 7.5 | | | | 7.65 | | | | |
| 6/30/2017 | | | | 5.39 | | 5.72 | | | 6.17 |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | 5.92 | 5.25 | |
| 10/3/2017 | | 5.98 | 6.81 | | | | | | |
| 10/4/2017 | 7.45 | | | | 7.49 | 5.87 | | | |
| 10/5/2017 | | | | 5.49 | | | | | |
| 10/6/2017 | | | | | | | | | 6.13 |
| 10/9/2017 | | | | | | | | | |
| 10/10/2017 | | | | | | | 5.84 | 5.17 | |
| 3/27/2018 | | 6.25 | | 5.47 | | 5.83 | | | |

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-3D (bg) | YGWA-30I (bg) | YGWC-26I | YGWC-26S | YGWC-27S |
|-----------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 3/28/2018 | 7.74 | | | | 7.91 | | | | |
| 3/29/2018 | | | 7.38 | | | | | | 6.25 |
| 3/30/2018 | | | | | | | 6.19 | 5.19 | |
| 6/5/2018 | | | 7.16 | | | | | | |
| 6/6/2018 | | 6.17 | | | | | | | |
| 6/7/2018 | | | | | 7.69 | | | | |
| 6/8/2018 | 7.64 | | | 5.45 | | | | | |
| 6/11/2018 | | | | | | 5.69 | | | |
| 6/12/2018 | | | | | | | | | 6.22 |
| 6/13/2018 | | | | | | | 5.82 | 5.12 | |
| 10/1/2018 | 7.47 | 5.9 | 6.8 | 5.39 | 7.39 | | | | |
| 10/2/2018 | | | | | | 5.39 | 5.81 | 4.95 | 5.99 |
| 10/3/2018 | | | | | | | | | |
| 2/26/2019 | | | | 5.46 | | 5.77 | | | |
| 2/27/2019 | 7.54 | 5.8 | 6.84 | | 7.55 | | 5.79 | 5 | 6.26 |
| 3/28/2019 | | 6.15 | 6.99 | | | | | | |
| 3/29/2019 | | | | 5.34 | | | | | |
| 4/1/2019 | 7.74 | | | | 7.87 | 5.62 | | | 6.4 |
| 4/2/2019 | | | | | | | 5.87 | 5.13 | |
| 9/24/2019 | | 6.23 | 7.07 | | | | | | |
| 9/25/2019 | 7.47 | | | 5.19 | 7.64 | 5.69 | 5.79 | 5.24 | |
| 9/26/2019 | | | | | | | | | 6.22 |
| 2/10/2020 | | 6.1 | 7.2 | | | | | | |
| 2/11/2020 | 7.09 | | | | | | | | |
| 2/12/2020 | | | | 5.48 | 7.83 | 5.8 | | | |
| 2/13/2020 | | | | | | | 5.93 | 5.29 | 6.31 |
| 3/18/2020 | | 6.19 | | 5.38 | | | | | |
| 3/19/2020 | 7.31 | | 7.03 | | 7.65 | 6 | | 5.46 | |
| 3/20/2020 | | | | | | | 5.94 | | 6.18 |

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWC-27I | YGWC-28S | YGWC-28I | YGWC-29I | YGWA-2I (bg) |
|------------|----------|----------|----------|----------|--------------|
| 6/1/2016 | | | | | |
| 6/2/2016 | | | | | |
| 6/8/2016 | 6.32 | | | | |
| 6/9/2016 | | 6.39 | 6.42 | 6.19 | |
| 7/25/2016 | | | | | |
| 7/26/2016 | | | | | |
| 8/1/2016 | 6.34 | | | | |
| 8/2/2016 | | 6.35 | 6.43 | 6.17 | |
| 9/13/2016 | | | | | 7.41 |
| 9/14/2016 | | | | | |
| 9/15/2016 | | | | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 6.36 | | | | |
| 9/21/2016 | | 6.39 | 6.45 | 6.2 | |
| 11/1/2016 | | | | | |
| 11/2/2016 | | | | | |
| 11/4/2016 | | | | | 7.12 |
| 11/7/2016 | 6.3 | 6.36 | | 6.1 | |
| 11/8/2016 | | | 6.37 | | |
| 12/15/2016 | | | | | 7.24 |
| 1/10/2017 | | | | | |
| 1/11/2017 | | | | | |
| 1/16/2017 | | | | | 7.24 |
| 1/18/2017 | 6.31 | 6.23 | 6.27 | | |
| 1/19/2017 | | | | 6.22 | |
| 2/21/2017 | | 6.42 | | | |
| 2/22/2017 | | | 6.35 | 6.12 | |
| 2/23/2017 | 6.18 | | | | |
| 3/1/2017 | | | | | |
| 3/2/2017 | | | | | |
| 3/3/2017 | | | | | 7.22 |
| 3/8/2017 | | | | | |
| 4/26/2017 | | | | | |
| 4/27/2017 | | | | | |
| 4/28/2017 | | | | | 7.21 |
| 5/3/2017 | | | | | |
| 5/5/2017 | | 6.4 | 6.36 | | |
| 5/8/2017 | 6.24 | | | 6.11 | |
| 5/26/2017 | | | | | 7.13 |
| 6/27/2017 | | | | | |
| 6/28/2017 | | | | | 7.06 |
| 6/30/2017 | 6.21 | | | | |
| 7/5/2017 | | | 6.4 | 6.17 | |
| 7/7/2017 | | 6.46 | | | |
| 7/10/2017 | | | | | |
| 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 | | | | | |
| 3/27/2018 | | | | | |

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWC-27I | YGWC-28S | YGWC-28I | YGWC-29I | YGWA-2I (bg) |
|-----------|----------|----------|----------|----------|--------------|
| 3/28/2018 | | | | | 7.3 |
| 3/29/2018 | 6.36 | | | 6.09 | |
| 3/30/2018 | | 6.35 | 6.39 | | |
| 6/5/2018 | | | | | |
| 6/6/2018 | | | | | |
| 6/7/2018 | | | | | 7.29 |
| 6/8/2018 | | | | | |
| 6/11/2018 | | | | 6.17 | |
| 6/12/2018 | | 6.47 | 6.42 | | |
| 6/13/2018 | 6.28 | | | | |
| 10/1/2018 | | | | | 7.07 |
| 10/2/2018 | 5.9 | | | 6.17 | |
| 10/3/2018 | | 6.01 | 6.21 | | |
| 2/26/2019 | | | | | |
| 2/27/2019 | 6.31 | 6.38 | 6.32 | 6.19 | 7.27 |
| 3/28/2019 | | | | | |
| 3/29/2019 | | | | | 7.06 |
| 4/1/2019 | 6.43 | | 6.3 | 6.03 | |
| 4/2/2019 | | 6.7 | | | |
| 9/24/2019 | | | | | 7.01 |
| 9/25/2019 | | | | 6.21 | |
| 9/26/2019 | 6.3 | 6.47 | 6.43 | | |
| 2/10/2020 | | | | | |
| 2/11/2020 | | | | | 7.38 |
| 2/12/2020 | | | | | |
| 2/13/2020 | 6.4 | 6.53 | 6.49 | 6.32 | |
| 3/18/2020 | | | | | |
| 3/19/2020 | | 6.98 | 7.01 | | 7.22 |
| 3/20/2020 | 6.32 | | | 6.17 | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-14S (bg) | YGWC-27S | YGWC-27I | YGWC-26S |
|------------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/1/2016 | 4.2 | 12 | 5 | | | | | | |
| 6/2/2016 | | | | 1.3 | 5.8 | 6.6 | | | |
| 6/8/2016 | | | | | | | 26 | 3.2 | 110 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 3.7 | 8.4 | | 1.2 | | | | | |
| 7/26/2016 | | | 5.4 | | 6.7 | 6.1 | | | |
| 8/1/2016 | | | | | | | 27 | 3.6 | 96 |
| 8/2/2016 | | | | | | | | | |
| 9/13/2016 | 5.2 | | 2.9 | | | | | | |
| 9/14/2016 | | 8.6 | | | | | | | |
| 9/15/2016 | | | | | 6 | 6.1 | | | |
| 9/19/2016 | | | | 1.2 | | | | | |
| 9/20/2016 | | | | | | | 21 | 5.6 | 100 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | 8.9 | 3.9 | 1.3 | 4.9 | | | | |
| 11/2/2016 | | | | | | 6.3 | | | |
| 11/4/2016 | 5 | | | | | | | | |
| 11/7/2016 | | | | | | | 24 | 5.4 | 100 |
| 11/8/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | 5.9 | | | |
| 1/11/2017 | | 8.6 | 3.7 | | 4.5 | | | | |
| 1/16/2017 | 7.9 | | | <1.5 (*) | | | | | |
| 1/18/2017 | | | | | | | | 3.5 | 100 |
| 1/19/2017 | | | | | | | 25 | | |
| 2/21/2017 | | | | 1.4 | | | | | 96 |
| 2/22/2017 | | | | | | | 24 | | |
| 2/23/2017 | | | | | | | | 4.9 | |
| 3/1/2017 | | 9.3 | | | | | | | |
| 3/2/2017 | 7.4 | | 4.6 | | 4.4 | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/8/2017 | | | | | | 7 | | | |
| 4/26/2017 | | 11 | | 1.4 | 5.1 | 7 | | | |
| 4/27/2017 | 7.4 | | 5.2 | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/3/2017 | | | | | | | | | 100 |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 23 | 3.9 | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | 6.4 | | 5.9 | | | | | | |
| 6/28/2017 | | 12 | | | 5.4 | | | | |
| 6/30/2017 | | | | <1.5 (*) | | 6.5 | 23 | 5 | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | 100 |
| 10/3/2017 | 5.9 | | 6.6 | | | | | | |
| 10/4/2017 | | 12 | | 1.4 | 6.2 | | | | |
| 10/5/2017 | | | | | | 7.9 | | | |
| 10/6/2017 | | | | | | | 23 | | |
| 10/9/2017 | | | | | | | | 5.1 | |
| 10/10/2017 | | | | | | | | | 97 |
| 6/5/2018 | | | 6.4 | | | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-14S (bg) | YGWC-27S | YGWC-27I | YGWC-26S |
|-----------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/6/2018 | 4.4 | | | | | | | | |
| 6/7/2018 | | | | | 6.7 | | | | |
| 6/8/2018 | | 9.6 | | | | 6.4 | | | |
| 6/11/2018 | | | | 1.1 | | | | | |
| 6/12/2018 | | | | | | | 18.1 | | |
| 6/13/2018 | | | | | | | | 6.1 | 93.3 |
| 10/1/2018 | 4 | 9.1 | 5.6 | | 7.1 | 6.8 | | | |
| 10/2/2018 | | | | 1 | | | 20.2 | 6.1 | 99 |
| 10/3/2018 | | | | | | | | | |
| 3/28/2019 | 4.3 | | 8 | | | | | | |
| 3/29/2019 | | | | | | 7.3 | | | |
| 4/1/2019 | | 8.5 | | 0.96 (J) | 7.2 | | 18.3 | 4.1 | |
| 4/2/2019 | | | | | | | | | 94.5 |
| 9/24/2019 | 4.3 | | 5.3 | | | | | | |
| 9/25/2019 | | 13.8 | | 0.81 (J) | 7 | 6.6 | | | 97 |
| 9/26/2019 | | | | | | | 18.2 | 4.2 | |
| 3/18/2020 | 5.3 | | | | | 8.1 | | | |
| 3/19/2020 | | 12.9 | 10 | 1.6 | 9 | | | | 99.4 |
| 3/20/2020 | | | | | | | 21.1 | 5.2 | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWC-26I | YGWC-28I | YGWC-29I | YGWC-28S | YGWA-2I (bg) |
|------------|----------|----------|----------|----------|--------------|
| 6/1/2016 | | | | | |
| 6/2/2016 | | | | | |
| 6/8/2016 | 81 | | | | |
| 6/9/2016 | | 8.7 | 33 | 5.2 | |
| 7/25/2016 | | | | | |
| 7/26/2016 | | | | | |
| 8/1/2016 | 75 | | | | |
| 8/2/2016 | | 7.5 | 32 | 4.5 | |
| 9/13/2016 | | | | | |
| 9/14/2016 | | | | | 9.4 |
| 9/15/2016 | | | | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 78 | | | | |
| 9/21/2016 | | 8 | 32 | <1.5 (*) | |
| 11/1/2016 | | | | | |
| 11/2/2016 | | | | | |
| 11/4/2016 | | | | | 13 |
| 11/7/2016 | 81 | | 33 | 4.3 | |
| 11/8/2016 | | 8.3 | | | |
| 12/15/2016 | | | | | 1.8 |
| 1/10/2017 | | | | | |
| 1/11/2017 | | | | | |
| 1/16/2017 | | | | | 11 |
| 1/18/2017 | 95 | 8 | | 2.7 | |
| 1/19/2017 | | | 32 | | |
| 2/21/2017 | 80 | | | 3 | |
| 2/22/2017 | | 8.2 | 31 | | |
| 2/23/2017 | | | | | |
| 3/1/2017 | | | | | |
| 3/2/2017 | | | | | |
| 3/3/2017 | | | | | 8.8 |
| 3/8/2017 | | | | | |
| 4/26/2017 | | | | | |
| 4/27/2017 | | | | | |
| 4/28/2017 | | | | | 10 |
| 5/3/2017 | | | | | |
| 5/5/2017 | | <1.5 (*) | | <1.5 (*) | |
| 5/8/2017 | 84 | | 32 | | |
| 5/26/2017 | | | | | 12 |
| 6/27/2017 | | | | | |
| 6/28/2017 | | | | | 11 |
| 6/30/2017 | | | | | |
| 7/5/2017 | | 8.1 | 31 | | |
| 7/7/2017 | | | | 2.7 | |
| 7/10/2017 | 84 | | | | |
| 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 | 82 | | | | |
| 6/5/2018 | | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-28I | YGWC-29I | YGWC-28S | YGWA-2I (bg) |
|-----------|----------|----------|----------|----------|--------------|
| 6/6/2018 | | | | | |
| 6/7/2018 | | | | | 8.8 |
| 6/8/2018 | | | | | |
| 6/11/2018 | | | 30.6 | | |
| 6/12/2018 | | 8.2 | | 2.9 | |
| 6/13/2018 | 76.5 | | | | |
| 10/1/2018 | | | | | 9.1 |
| 10/2/2018 | 83.9 | | 30.8 | | |
| 10/3/2018 | | 8 | | 2.1 | |
| 3/28/2019 | | | | | |
| 3/29/2019 | | | | | 9 |
| 4/1/2019 | | 8.2 | 30.4 | | |
| 4/2/2019 | 77.6 | | | 2.4 | |
| 9/24/2019 | | | | | 9.1 |
| 9/25/2019 | 80.1 | | 30 | | |
| 9/26/2019 | | 7.9 | | 1.6 | |
| 3/18/2020 | | | | | |
| 3/19/2020 | | 9.1 | | 1.7 | 12.4 |
| 3/20/2020 | 84.7 | | 33 | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

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

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-14S (bg) | YGWC-27S | YGWC-27I | YGWC-26S |
|------------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/1/2016 | 54 | 150 | 120 | | | | | | |
| 6/2/2016 | | | | 36 | 130 | 46 | | | |
| 6/8/2016 | | | | | | | 210 | 190 | 200 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 48 | 135 | | 50 | | | | | |
| 7/26/2016 | | | 94 | | 141 | 54 | | | |
| 8/1/2016 | | | | | | | 209 | 191 | 191 |
| 8/2/2016 | | | | | | | | | |
| 9/13/2016 | 67 | | 105 | | | | | | |
| 9/14/2016 | | 127 | | | | | | | |
| 9/15/2016 | | | | | 153 | 54 | | | |
| 9/19/2016 | | | | 35 | | | | | |
| 9/20/2016 | | | | | | | 224 | 205 | 213 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | 75 | 44 | <25 | 92 | | | | |
| 11/2/2016 | | | | | | 71 | | | |
| 11/4/2016 | 60 | | | | | | | | |
| 11/7/2016 | | | | | | | 291 | 264 | 284 |
| 11/8/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | 45 | | | |
| 1/11/2017 | | 148 | 107 | | 159 | | | | |
| 1/16/2017 | 65 | | | 47 | | | | | |
| 1/18/2017 | | | | | | | | 167 (D) | 158 (D) |
| 1/19/2017 | | | | | | | 215 (D) | | |
| 2/21/2017 | | | | <25 | | | | | 137 |
| 2/22/2017 | | | | | | | 262 | | |
| 2/23/2017 | | | | | | | | 253 | |
| 3/1/2017 | | 182 | | | | | | | |
| 3/2/2017 | 61 | | 98 | | 117 | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/8/2017 | | | | | | 178 | | | |
| 4/26/2017 | | 92 | | 55 | 181 | 52 | | | |
| 4/27/2017 | 31 | | 116 | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/3/2017 | | | | | | | | | 269 |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 187 | 174 | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | 42 | | 89 | | | | | | |
| 6/28/2017 | | 126 | | | 169 | | | | |
| 6/30/2017 | | | | 42 | | 45 | 209 | 193 | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | 183 |
| 10/3/2017 | 58 | | 119 | | | | | | |
| 10/4/2017 | | 147 | | 31 | 141 | | | | |
| 10/5/2017 | | | | | | 40 | | | |
| 10/6/2017 | | | | | | | 183 | | |
| 10/9/2017 | | | | | | | | 185 | |
| 10/10/2017 | | | | | | | | | 179 |
| 6/5/2018 | | | 127 | | | | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-14S (bg) | YGWC-27S | YGWC-27I | YGWC-26S |
|-----------|--------------|--------------|--------------|---------------|--------------|---------------|----------|----------|----------|
| 6/6/2018 | 96 | | | | | | | | |
| 6/7/2018 | | | | | 95 | | | | |
| 6/8/2018 | | 158 | | | | 114 | | | |
| 6/11/2018 | | | | 59 | | | | | |
| 6/12/2018 | | | | | | | 208 | | |
| 6/13/2018 | | | | | | | | 219 | 196 |
| 10/1/2018 | 60 | 138 | 117 | | 165 | 50 | | | |
| 10/2/2018 | | | | 57 | | | 206 | 227 | 191 |
| 10/3/2018 | | | | | | | | | |
| 3/28/2019 | 87 | | 87 | | | | | | |
| 3/29/2019 | | | | | | 63 | | | |
| 4/1/2019 | | 19 (J) | | 54 | 149 | | 221 | 198 | |
| 4/2/2019 | | | | | | | | | 224 |
| 9/24/2019 | 54 | | 124 | | | | | | |
| 9/25/2019 | | 159 | | 51 | 157 | 64 | | | 190 |
| 9/26/2019 | | | | | | | 225 | 198 | |
| 3/18/2020 | 35 | | | | | 57 | | | |
| 3/19/2020 | | 148 | 116 | 47 | 146 | | | | 194 |
| 3/20/2020 | | | | | | | 182 | 195 | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-28I | YGWC-29I | YGWC-28S | YGWA-2I (bg) |
|------------|----------|----------|----------|----------|--------------|
| 6/1/2016 | | | | | |
| 6/2/2016 | | | | | |
| 6/8/2016 | 220 | | | | |
| 6/9/2016 | | 240 | 150 | 210 | |
| 7/25/2016 | | | | | |
| 7/26/2016 | | | | | |
| 8/1/2016 | 211 | | | | |
| 8/2/2016 | | 226 | 155 | 202 | |
| 9/13/2016 | | | | | |
| 9/14/2016 | | | | | 152 |
| 9/15/2016 | | | | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 217 | | | | |
| 9/21/2016 | | 214 | 138 | 216 | |
| 11/1/2016 | | | | | |
| 11/2/2016 | | | | | |
| 11/4/2016 | | | | | 148 |
| 11/7/2016 | 301 | | 291 | 399 | |
| 11/8/2016 | | 229 | | | |
| 12/15/2016 | | | | | 191 |
| 1/10/2017 | | | | | |
| 1/11/2017 | | | | | |
| 1/16/2017 | | | | | 180 |
| 1/18/2017 | 265 (D) | 243 (D) | | 215 (D) | |
| 1/19/2017 | | | 145 (D) | | |
| 2/21/2017 | 158 | | | 198 | |
| 2/22/2017 | | 310 | 185 | | |
| 2/23/2017 | | | | | |
| 3/1/2017 | | | | | |
| 3/2/2017 | | | | | |
| 3/3/2017 | | | | | 156 |
| 3/8/2017 | | | | | |
| 4/26/2017 | | | | | |
| 4/27/2017 | | | | | |
| 4/28/2017 | | | | | 130 |
| 5/3/2017 | | | | | |
| 5/5/2017 | | 289 | | 347 | |
| 5/8/2017 | 207 | | 114 | | |
| 5/26/2017 | | | | | 223 |
| 6/27/2017 | | | | | |
| 6/28/2017 | | | | | 166 |
| 6/30/2017 | | | | | |
| 7/5/2017 | | 217 | 136 | | |
| 7/7/2017 | | | | 236 | |
| 7/10/2017 | 219 | | | | |
| 10/3/2017 | | | | | 153 |
| 10/4/2017 | | | | | |
| 10/5/2017 | | 221 | 139 | | |
| 10/6/2017 | | | | | |
| 10/9/2017 | | | | 204 | |
| 10/10/2017 | 194 | | | | |
| 6/5/2018 | | | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-28I | YGWC-29I | YGWC-28S | YGWA-2I (bg) |
|-----------|----------|----------|----------|----------|--------------|
| 6/6/2018 | | | | | |
| 6/7/2018 | | | | | 146 |
| 6/8/2018 | | | | | |
| 6/11/2018 | | | 156 | | |
| 6/12/2018 | | 234 | | 243 | |
| 6/13/2018 | 228 | | | | |
| 10/1/2018 | | | | | 155 |
| 10/2/2018 | 227 | | 154 | | |
| 10/3/2018 | | 232 | | 237 | |
| 3/28/2019 | | | | | |
| 3/29/2019 | | | | | 150 |
| 4/1/2019 | | 238 | 147 | | |
| 4/2/2019 | 223 | | | <25 | |
| 9/24/2019 | | | | | 146 |
| 9/25/2019 | 225 | | 162 | | |
| 9/26/2019 | | 241 | | 239 | |
| 3/18/2020 | | | | | |
| 3/19/2020 | | 212 | | 202 | 148 |
| 3/20/2020 | 211 | | 137 | | |

FIGURE F.

Appendix III Trend Tests - PL Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:59 PM

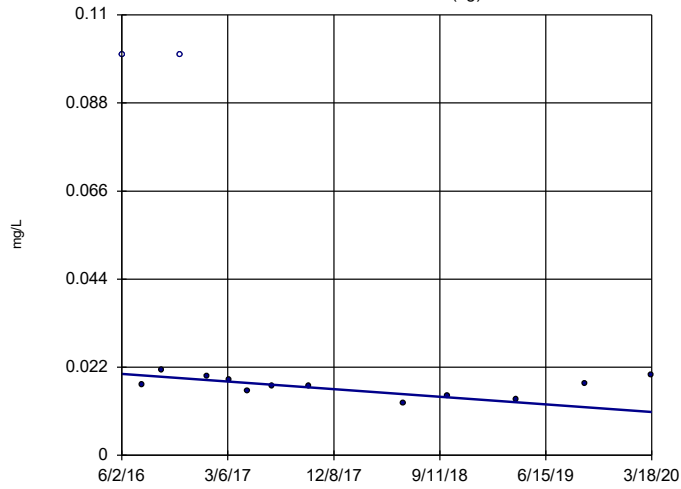
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------|---------------|----------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Calcium (mg/L) | YGWA-14S (bg) | -0.05271 | -60 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1D (bg) | 1.11 | 48 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-26S | -1.022 | -55 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-27S | -0.9221 | -63 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-29I | -0.605 | -47 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1D (bg) | 1.261 | 51 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3D (bg) | 0.7245 | 46 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-27S | -2.238 | -55 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-29I | -0.6353 | -49 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |

Appendix III Trend Tests - PL Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:59 PM

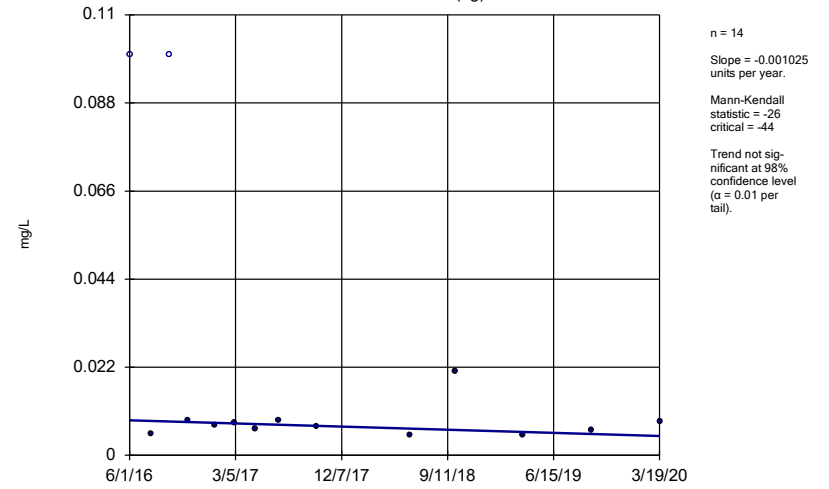
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|------------------------|----------------------|-----------------|------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron (mg/L) | YGWA-14S (bg) | -0.002489 | -37 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-1D (bg) | -0.001025 | -26 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-1I (bg) | 0 | -33 | -44 | No | 14 | 64.29 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-2I (bg) | 0 | -26 | -44 | No | 14 | 71.43 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-30I (bg) | 0 | -19 | -44 | No | 14 | 85.71 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-3D (bg) | 0 | -13 | -44 | No | 14 | 57.14 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWA-3I (bg) | 0 | -13 | -44 | No | 14 | 92.86 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-26I | -0.01726 | -15 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-26S | 0.005659 | 17 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-27I | 0.02751 | 6 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-27S | 0.02086 | 19 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-28I | 0.1086 | 27 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-28S | 0.08094 | 21 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | YGWC-29I | -0.01791 | -35 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-14S (bg) | -0.05271 | -60 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1D (bg) | 1.11 | 48 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-1I (bg) | -0.1025 | -37 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-2I (bg) | 0.9579 | 31 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-30I (bg) | -0.0134 | -7 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-3D (bg) | 1.219 | 40 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWA-3I (bg) | 0.4381 | 18 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWC-27S | 0.4551 | 10 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | YGWC-28I | -0.3982 | -15 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-14S (bg) | 0 | 6 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-1D (bg) | 0 | -11 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-1I (bg) | 0 | -5 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-2I (bg) | -0.03701 | -16 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-30I (bg) | 0 | 4 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-3D (bg) | -0.07067 | -33 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWA-3I (bg) | -0.04953 | -37 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-26I | 0 | -9 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-26S | -1.022 | -55 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-27I | 0 | 13 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-27S | -0.9221 | -63 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-28I | -0.215 | -39 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-28S | 0.02755 | 11 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | YGWC-29I | -0.605 | -47 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-14S (bg) | 0.3425 | 40 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1D (bg) | 1.261 | 51 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-1I (bg) | -0.1237 | -7 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-2I (bg) | 0 | 0 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-30I (bg) | -0.05321 | -7 | -44 | No | 14 | 14.29 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3D (bg) | 0.7245 | 46 | 44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWA-3I (bg) | 0.6413 | 31 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-26I | 0.7464 | 13 | 44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-26S | -0.5868 | -29 | -44 | No | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-27S | -2.238 | -55 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | YGWC-29I | -0.6353 | -49 | -44 | Yes | 14 | 0 | n/a | n/a | 0.02 | NP |

Sen's Slope Estimator YGWA-14S (bg)



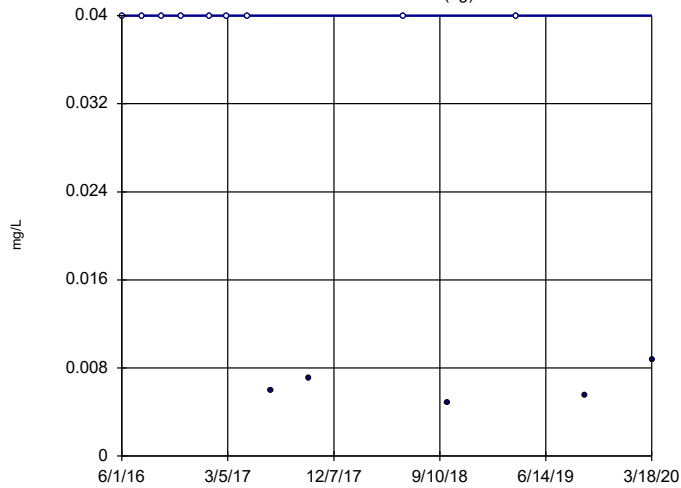
Constituent: Boron Analysis Run 5/12/2020 3:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



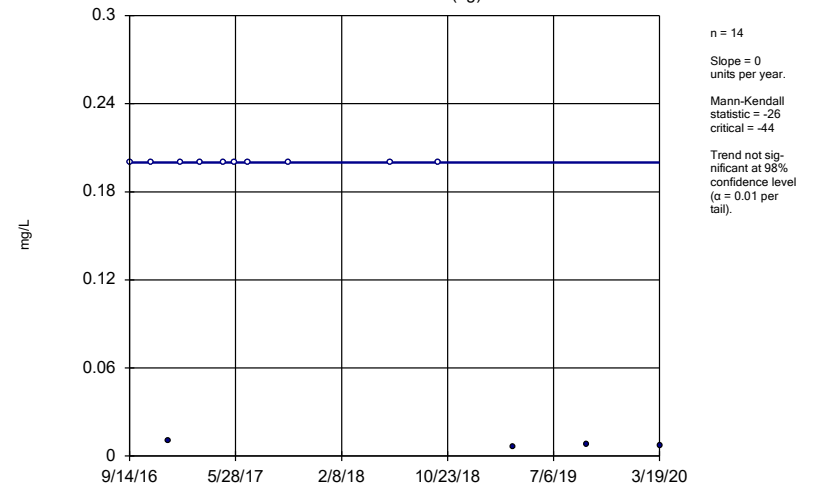
Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



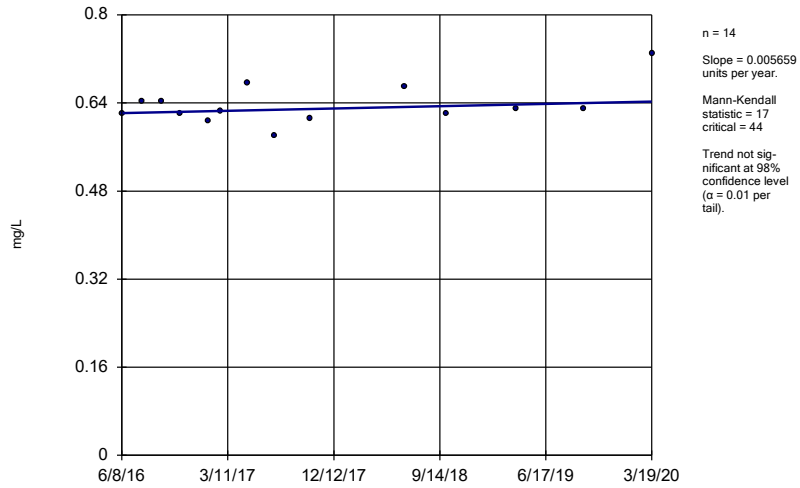
Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-2I (bg)



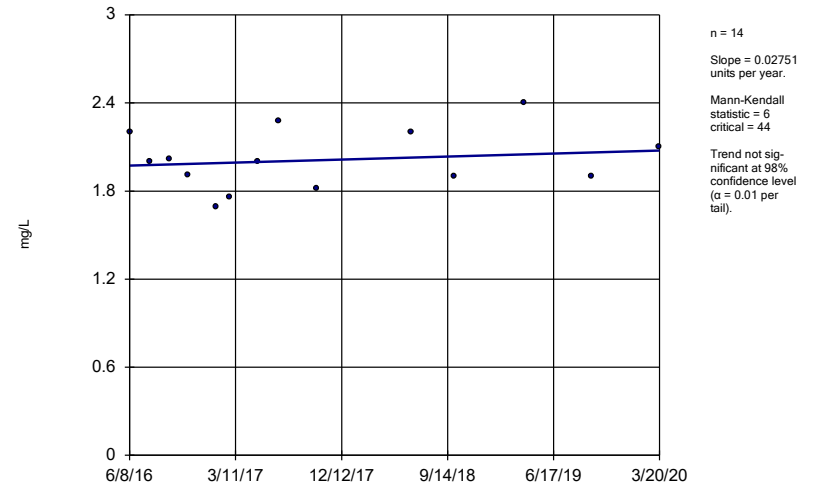
Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



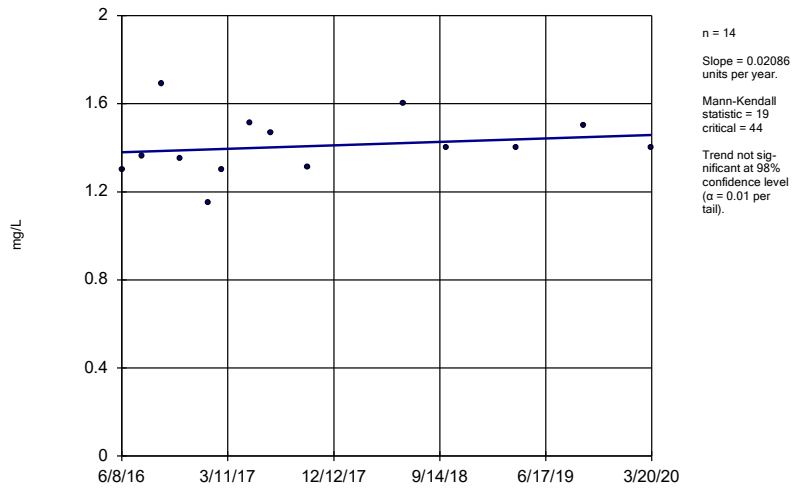
Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



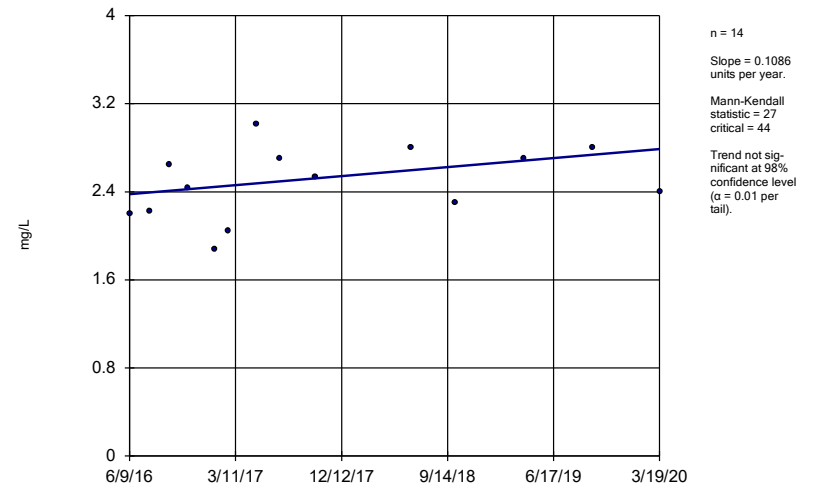
Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



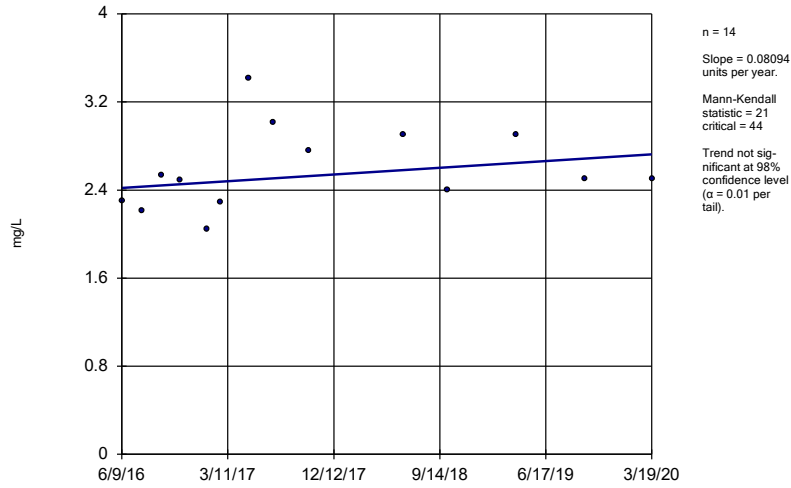
Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



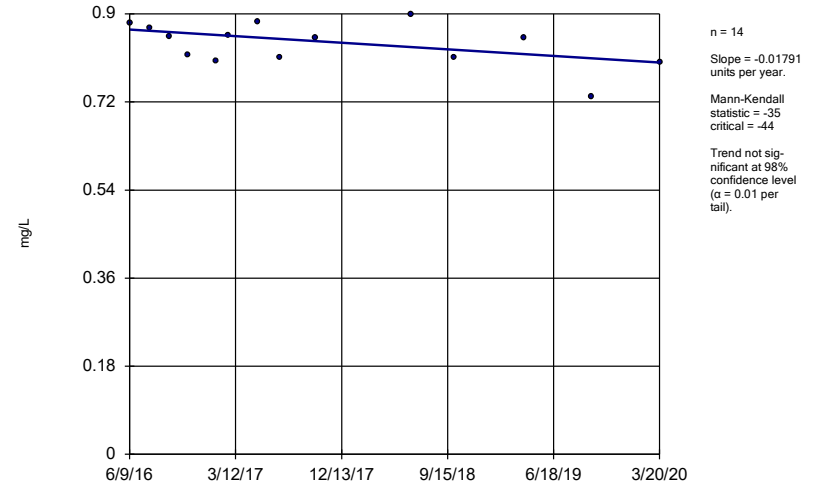
Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28S



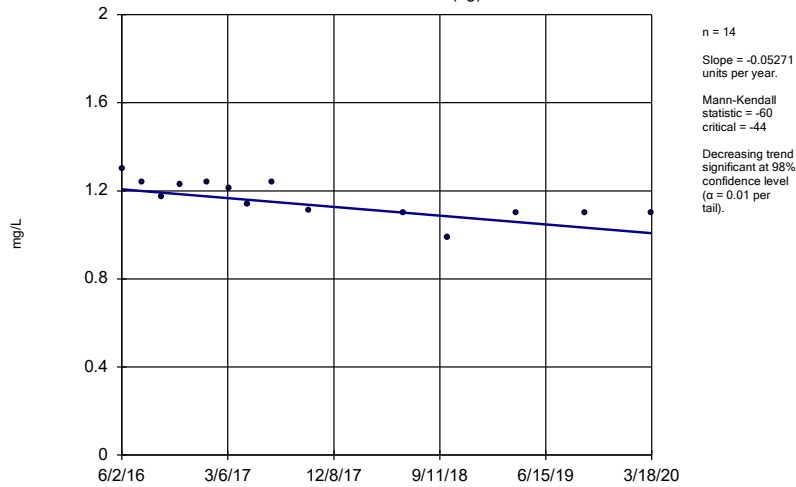
Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-29I



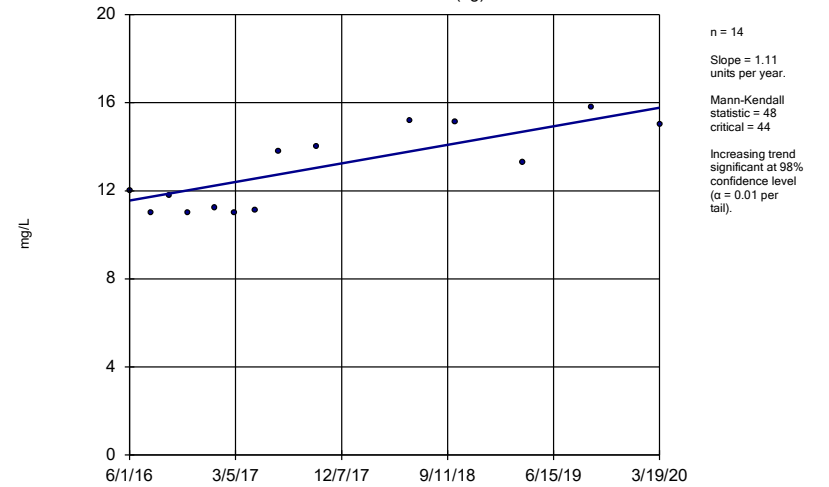
Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-14S (bg)



Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

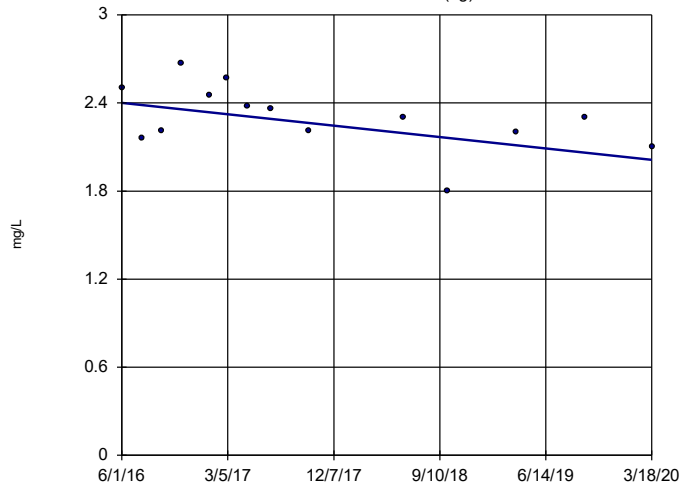
Sen's Slope Estimator
YGWA-1D (bg)



Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-11 (bg)

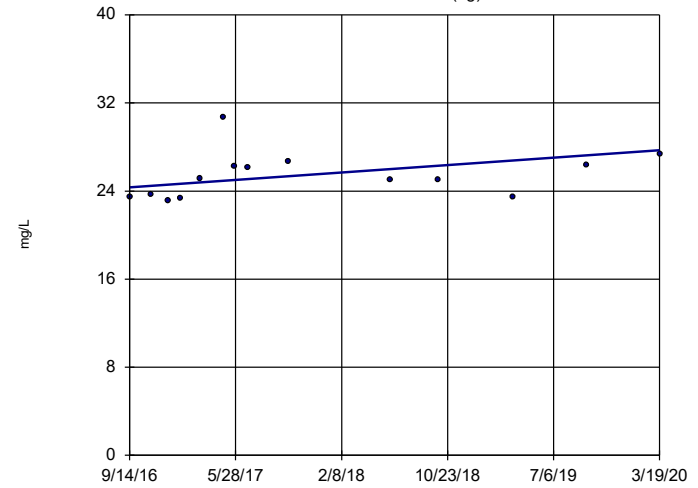


n = 14
 Slope = -0.1025
 units per year.
 Mann-Kendall
 statistic = -37
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21 (bg)

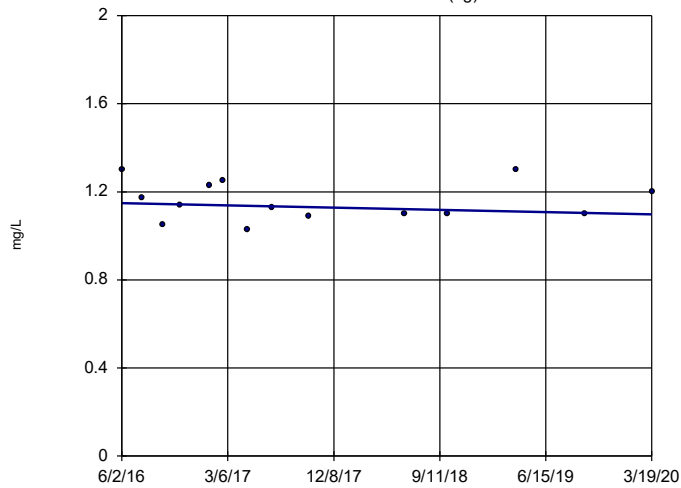


n = 14
 Slope = 0.9579
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

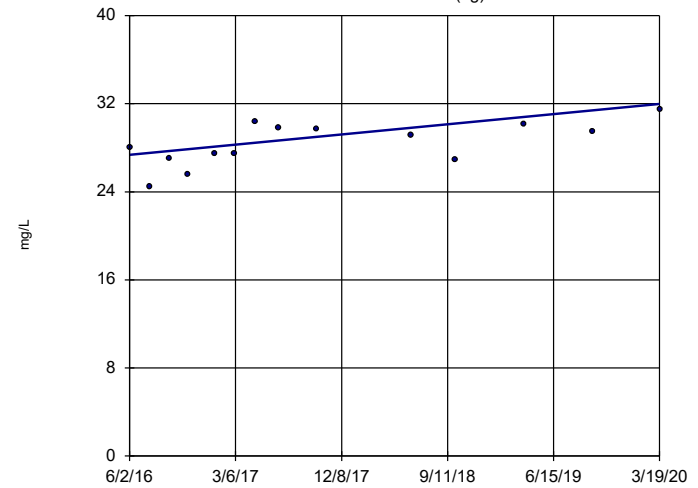


n = 14
 Slope = -0.0134
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

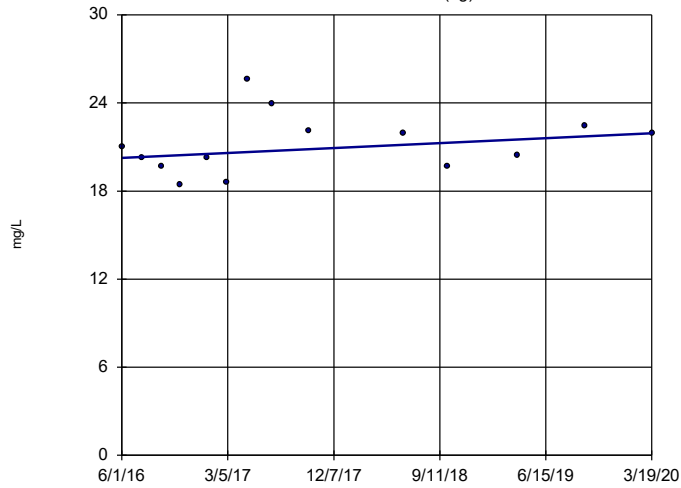


n = 14
 Slope = 1.219
 units per year.
 Mann-Kendall
 statistic = 40
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

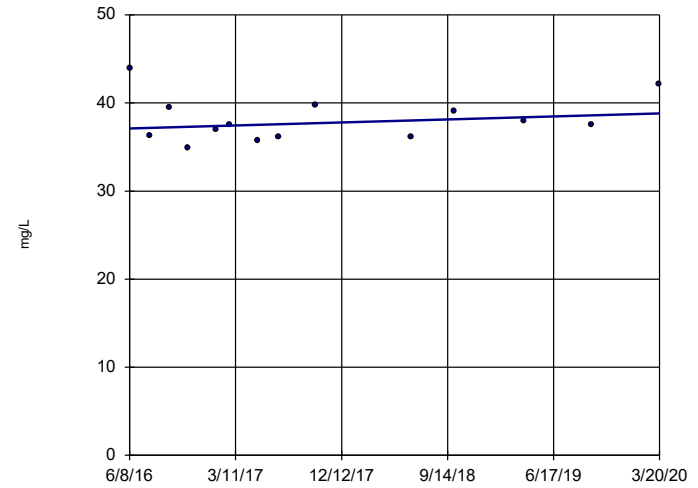


n = 14
 Slope = 0.4381
 units per year.
 Mann-Kendall
 statistic = 18
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (alpha = 0.01 per
 tail).

Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-27S

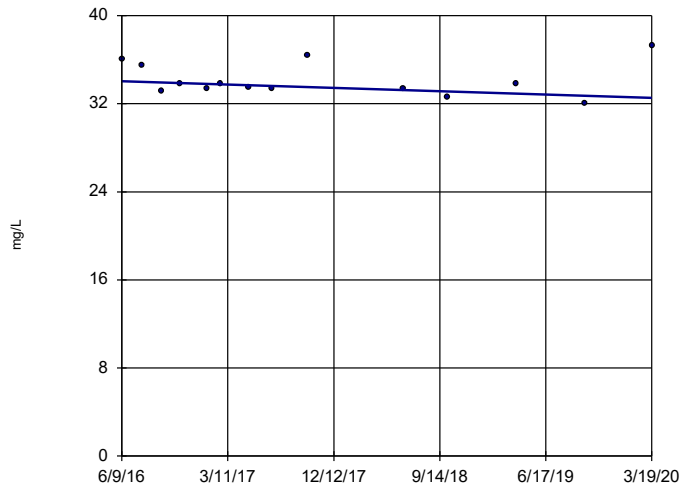


n = 14
 Slope = 0.4551
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (alpha = 0.01 per
 tail).

Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28I

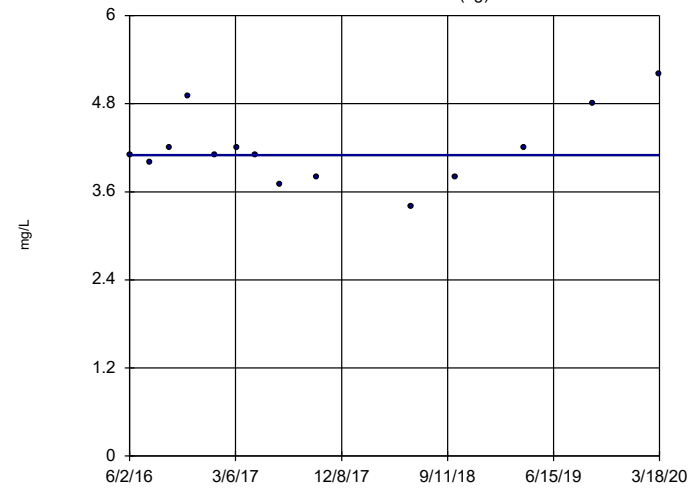


n = 14
 Slope = -0.3982
 units per year.
 Mann-Kendall
 statistic = -15
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (alpha = 0.01 per
 tail).

Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-14S (bg)

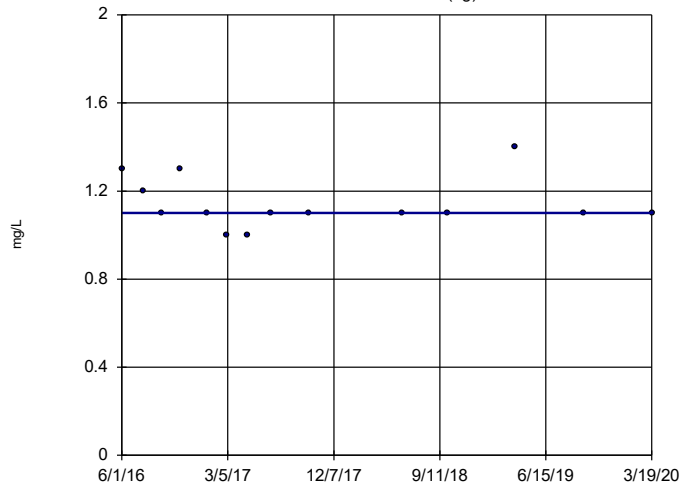


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (alpha = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)

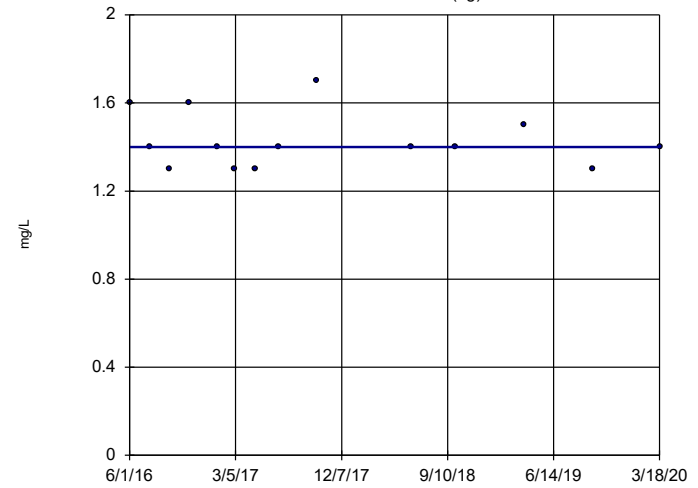


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1I (bg)

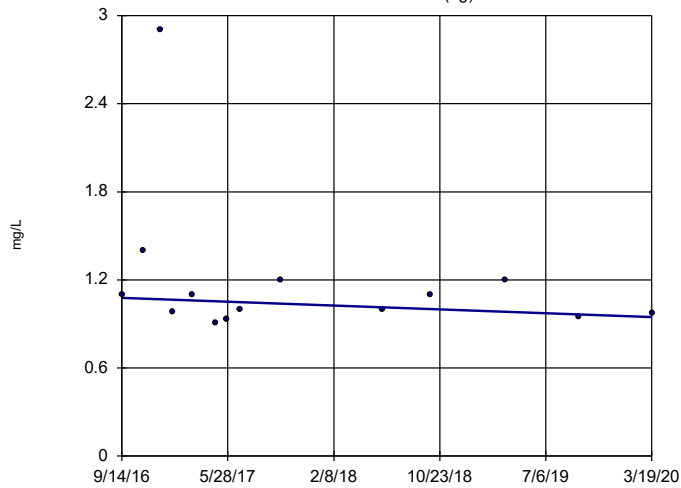


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-2I (bg)

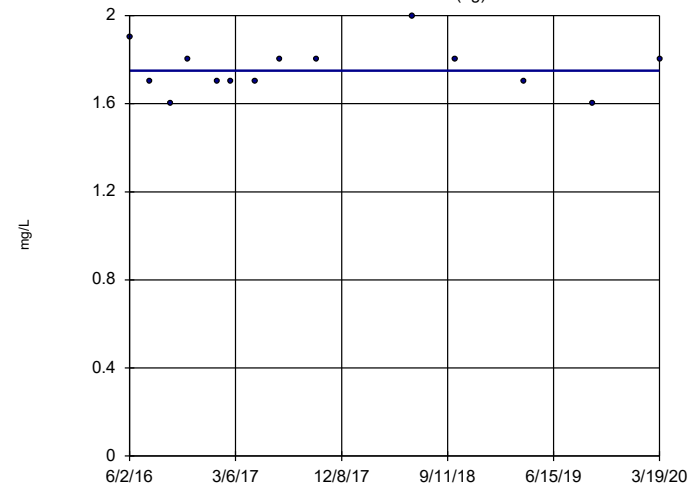


n = 14
 Slope = -0.03701
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

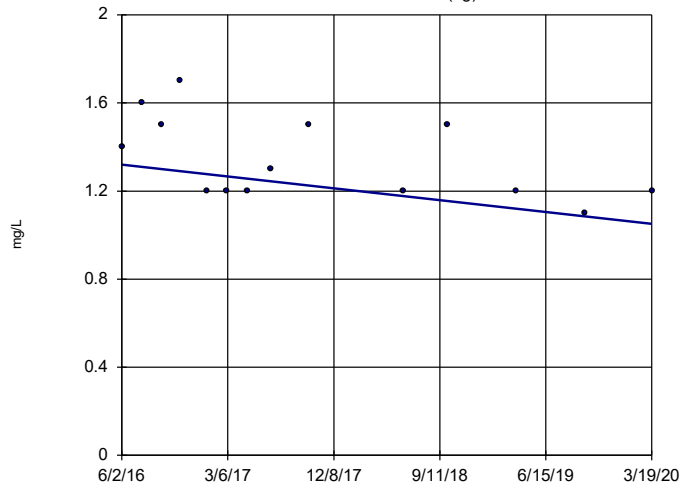


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

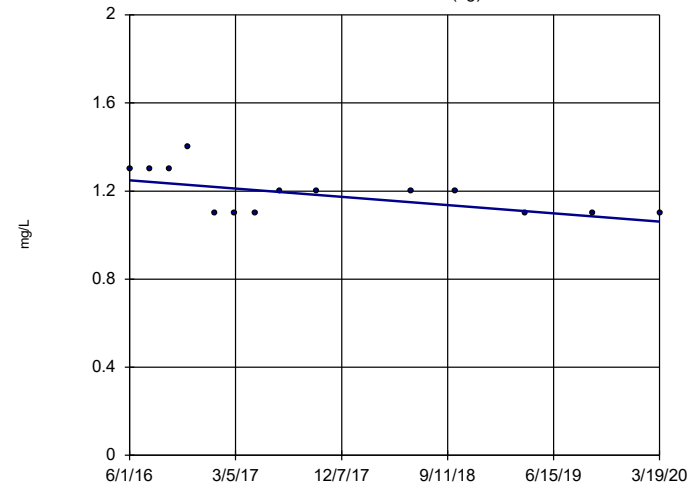


n = 14
 Slope = -0.07067
 units per year.
 Mann-Kendall
 statistic = -33
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

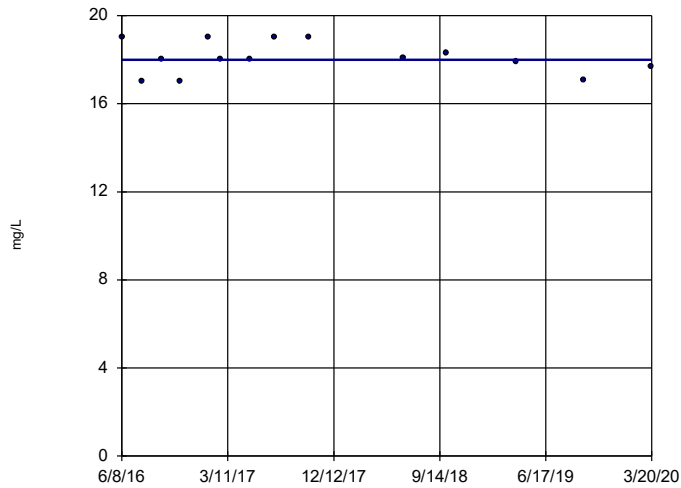


n = 14
 Slope = -0.04953
 units per year.
 Mann-Kendall
 statistic = -37
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26I

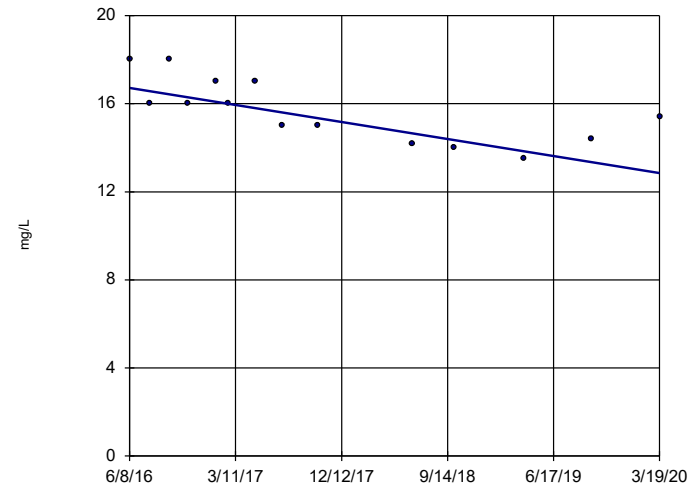


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

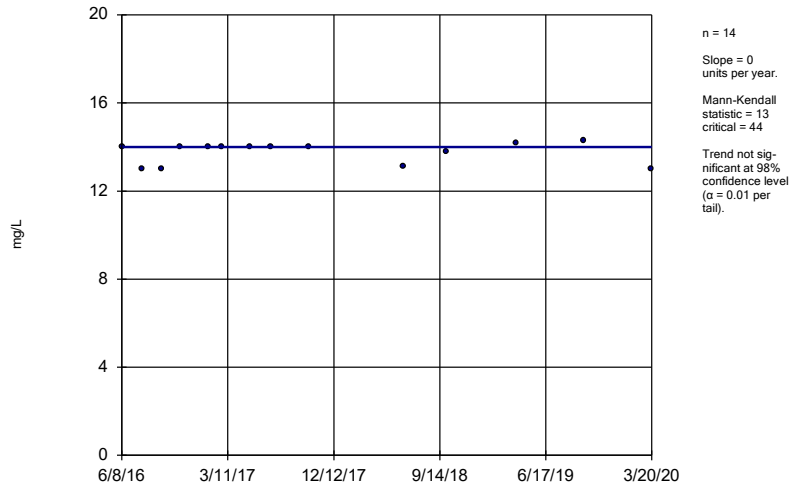
YGWC-26S



n = 14
 Slope = -1.022
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -44
 Decreasing trend
 significant at 98%
 confidence level
 (α = 0.01 per
 tail).

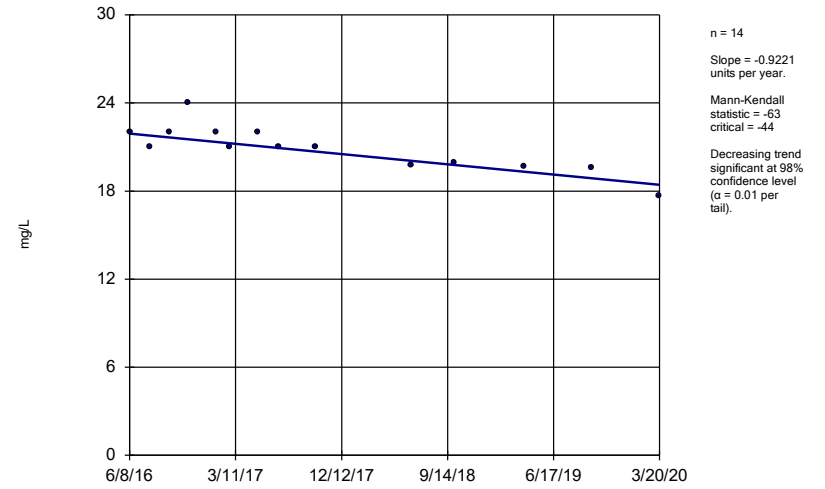
Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-27I



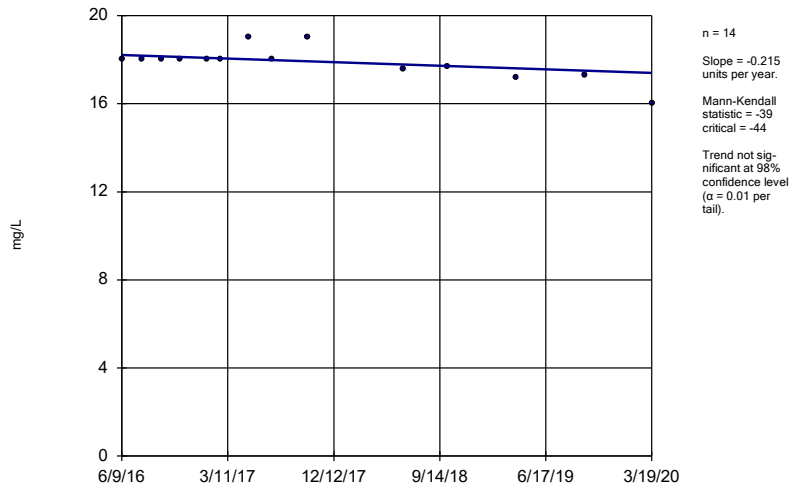
Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-27S



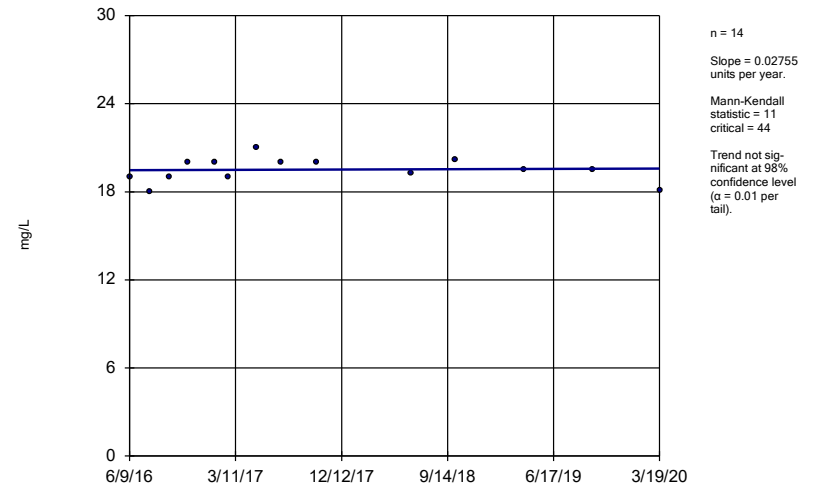
Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28I



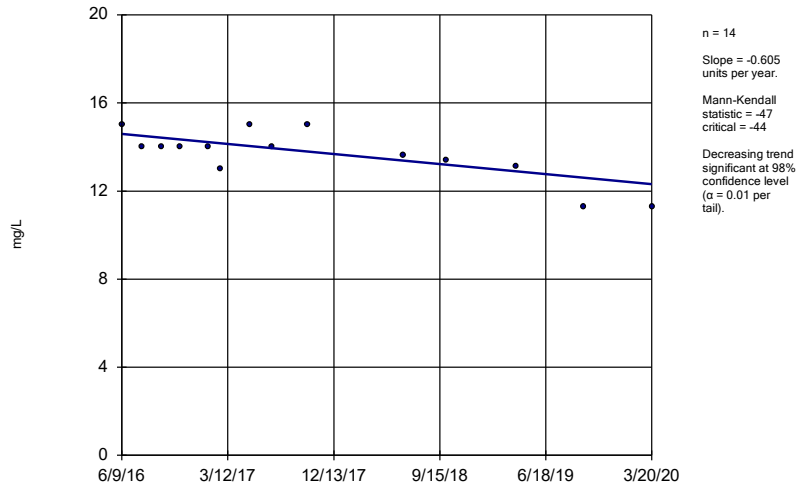
Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28S



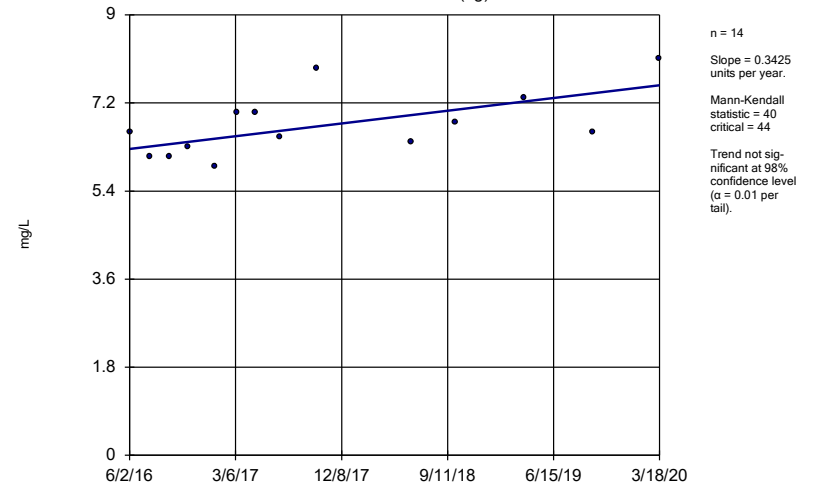
Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-29I



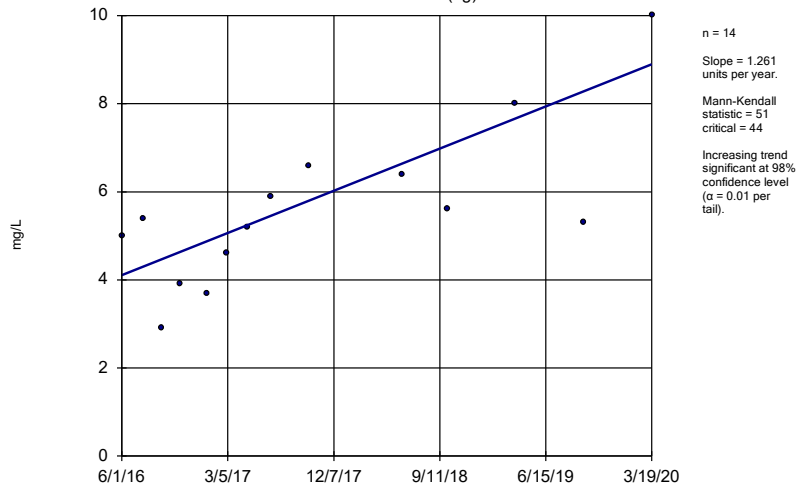
Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-14S (bg)



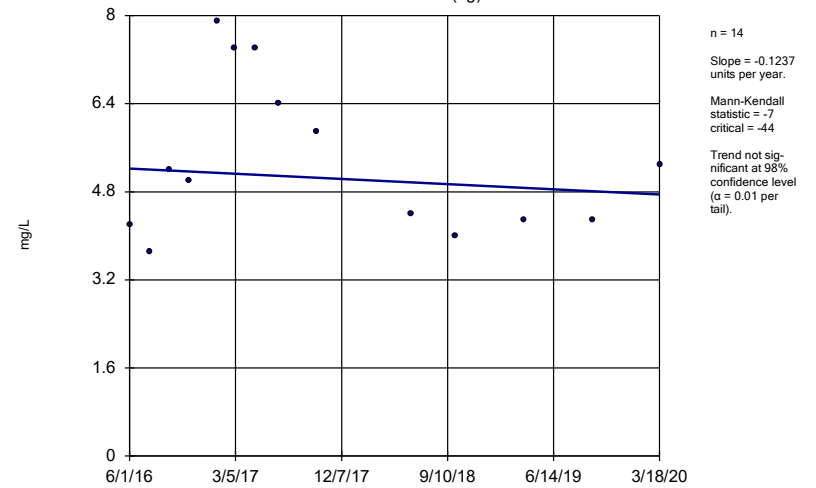
Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-1D (bg)



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

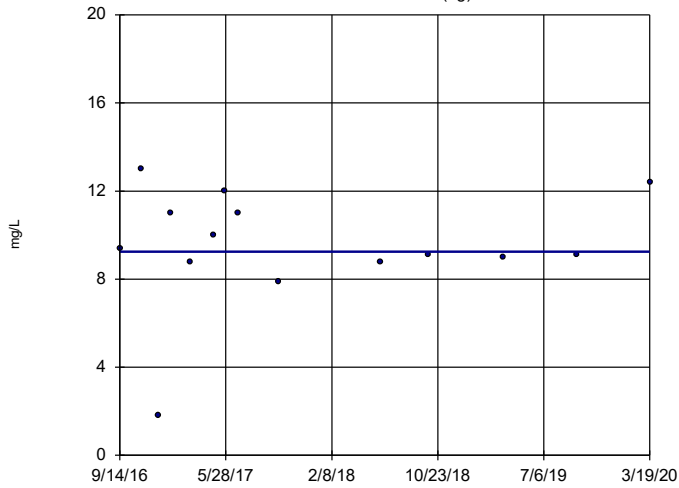
Sen's Slope Estimator
YGWA-1I (bg)



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-2I (bg)

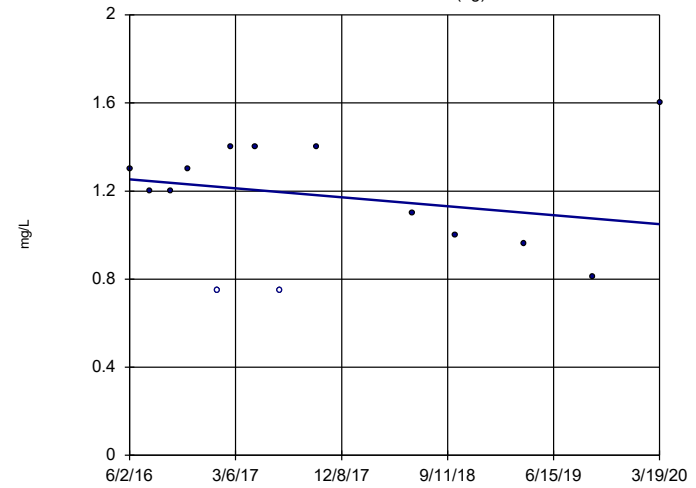


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

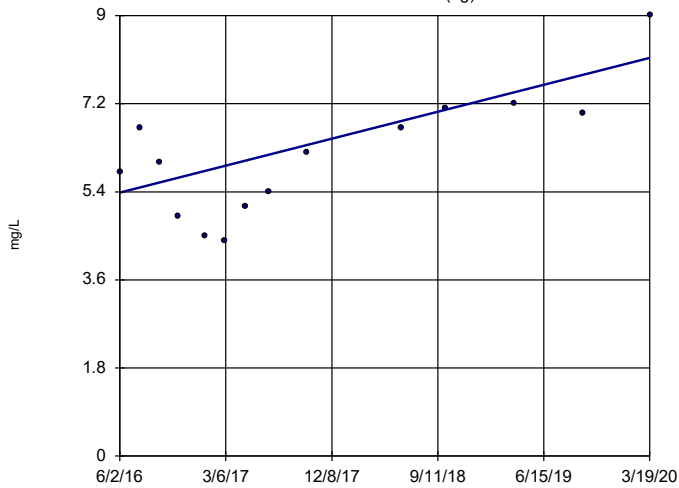


n = 14
 Slope = -0.05321
 units per year.
 Mann-Kendall
 statistic = -.7
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

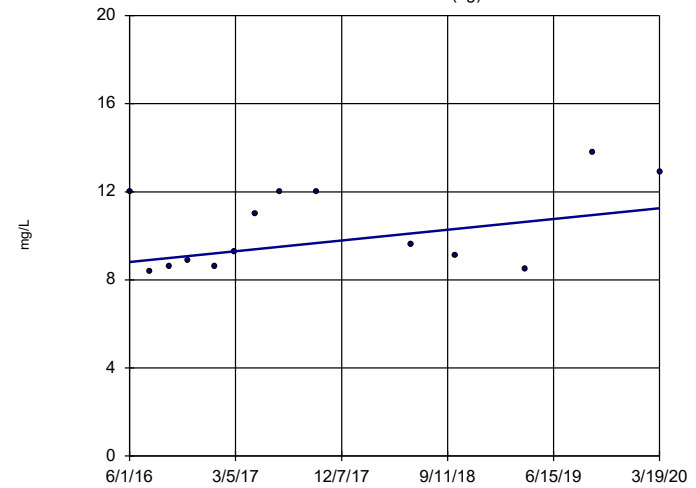


n = 14
 Slope = 0.7245
 units per year.
 Mann-Kendall
 statistic = 46
 critical = 44
 Increasing trend
 significant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

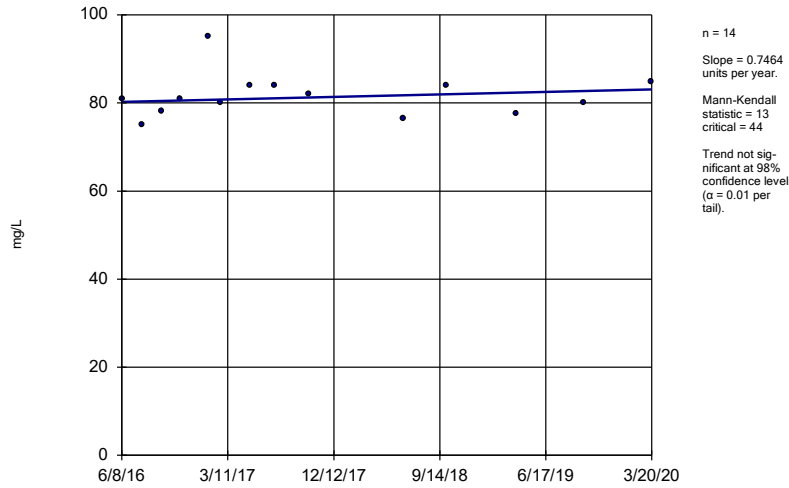
YGWA-3I (bg)



n = 14
 Slope = 0.6413
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

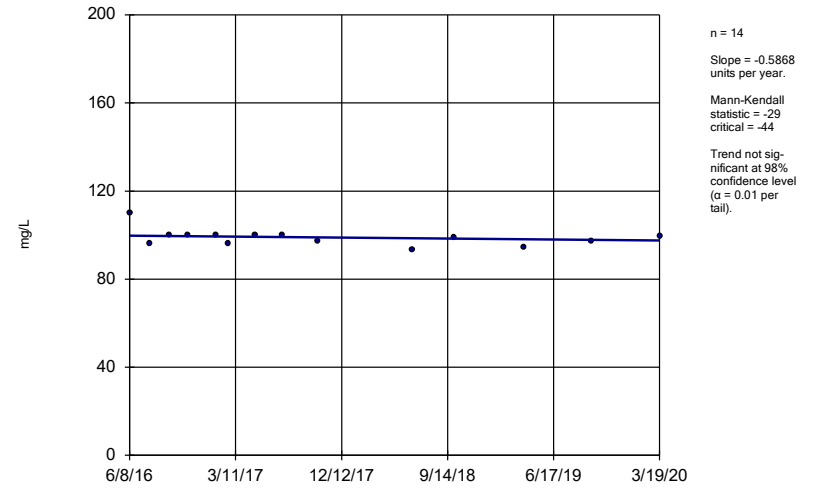
Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-26I



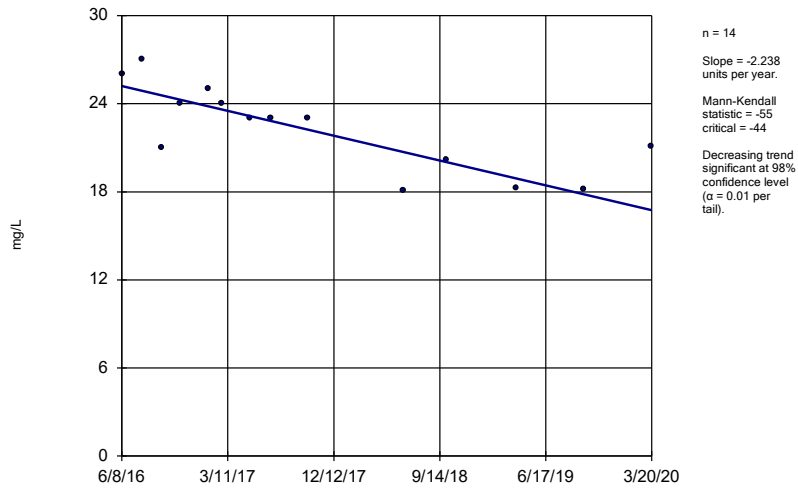
Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-26S



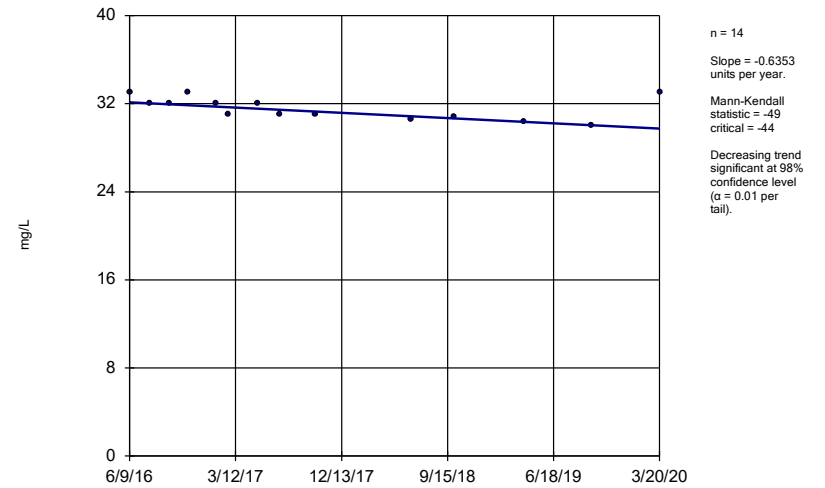
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-27S



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-29I



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE G.

Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:01 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|------|------------|------------|------|---------|------|------|---------|-----------|-------|---------|-----------|----------|---------------------|
| Antimony (mg/L) | n/a | 0.0030 | n/a | n/a | n/a | n/a | 84 | n/a | n/a | 78.57 | n/a | n/a | 0.01345 | NP Inter(NDs) |
| Arsenic (mg/L) | n/a | 0.0050 | n/a | n/a | n/a | n/a | 112 | n/a | n/a | 68.75 | n/a | n/a | 0.003199 | NP Inter(NDs) |
| Barium (mg/L) | n/a | 0.012 | n/a | n/a | n/a | n/a | 112 | n/a | n/a | 6.25 | n/a | n/a | 0.003199 | NP Inter(normality) |
| Beryllium (mg/L) | n/a | 0.0030 | n/a | n/a | n/a | n/a | 98 | n/a | n/a | 86.73 | n/a | n/a | 0.00656 | NP Inter(NDs) |
| Cadmium (mg/L) | n/a | 0.0025 | n/a | n/a | n/a | n/a | 98 | n/a | n/a | 95.92 | n/a | n/a | 0.00656 | NP Inter(NDs) |
| Chromium (mg/L) | n/a | 0.010 | n/a | n/a | n/a | n/a | 98 | n/a | n/a | 81.63 | n/a | n/a | 0.00656 | NP Inter(NDs) |
| Cobalt (mg/L) | n/a | 0.035 | n/a | n/a | n/a | n/a | 112 | n/a | n/a | 73.21 | n/a | n/a | 0.003199 | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 4.1 | n/a | n/a | n/a | n/a | 112 | 0.9571 | 0.3376 | 0 | None | x^(1/3) | 0.05 | Inter |
| Fluoride (mg/L) | n/a | 0.68 | n/a | n/a | n/a | n/a | 119 | n/a | n/a | 52.94 | n/a | n/a | 0.002234 | NP Inter(NDs) |
| Lead (mg/L) | n/a | 0.0050 | n/a | n/a | n/a | n/a | 84 | n/a | n/a | 86.9 | n/a | n/a | 0.01345 | NP Inter(NDs) |
| Lithium (mg/L) | n/a | 0.030 | n/a | n/a | n/a | n/a | 112 | n/a | n/a | 26.79 | n/a | n/a | 0.003199 | NP Inter(normality) |
| Mercury (mg/L) | n/a | 0.00050 | n/a | n/a | n/a | n/a | 91 | n/a | n/a | 89.01 | n/a | n/a | 0.009394 | NP Inter(NDs) |
| Molybdenum (mg/L) | n/a | 0.014 | n/a | n/a | n/a | n/a | 112 | n/a | n/a | 28.57 | n/a | n/a | 0.003199 | NP Inter(normality) |
| Selenium (mg/L) | n/a | 0.010 | n/a | n/a | n/a | n/a | 98 | n/a | n/a | 94.9 | n/a | n/a | 0.00656 | NP Inter(NDs) |
| Thallium (mg/L) | n/a | 0.0010 | n/a | n/a | n/a | n/a | 84 | n/a | n/a | 96.43 | n/a | n/a | 0.01345 | NP Inter(NDs) |

FIGURE H.

| YATES ASH POND 2 GWPS - FEDERAL | | | | |
|--|------------|---------------------------|-------------------------|-------------|
| Constituent Name | MCL | CCR Rule-Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.003 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.012 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.003 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.0025 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.01 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.035 | 0.035 |
| Combined Radium, Total (pCi/L) | 5 | | 4.1 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.68 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.005 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.03 | 0.04 |
| Mercury, Total (mg/L) | 0.002 | | 0.0005 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.014 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.01 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

*Grey cell indicates ACL is higher than MCL or CCR Rule- specified level

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residual

*GWPS = Groundwater Protection Standard

FIGURE I.

| YATES ASH POND 2 GWPS - STATE | | | | |
|--------------------------------------|------------|---------------------------|-------------------------|-------------|
| Constituent Name | MCL | CCR Rule-Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.003 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.012 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.003 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.0025 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.01 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.035 | 0.035 |
| Combined Radium, Total (pCi/L) | 5 | | 4.1 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.68 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.005 | 0.005 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.03 | 0.03 |
| Mercury, Total (mg/L) | 0.002 | | 0.0005 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.014 | 0.014 |
| Selenium, Total (mg/L) | 0.05 | | 0.01 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

*Grey cell indicates ACL is higher than MCL or CCR Rule- specified level

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residual

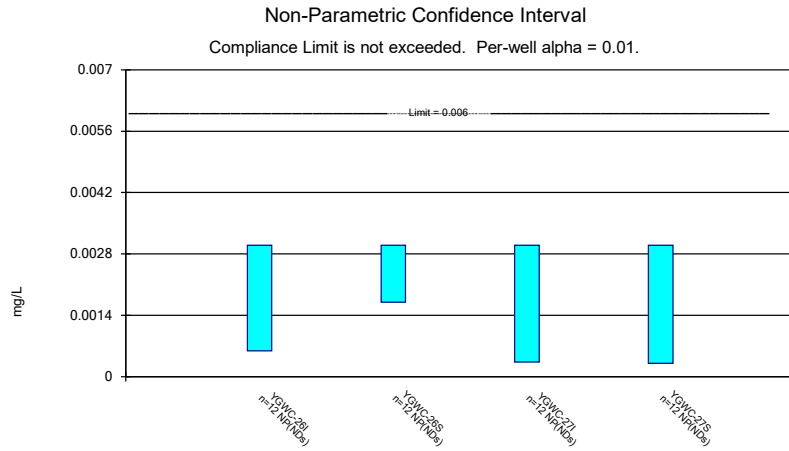
*GWPS = Groundwater Protection Standard

FIGURE J.

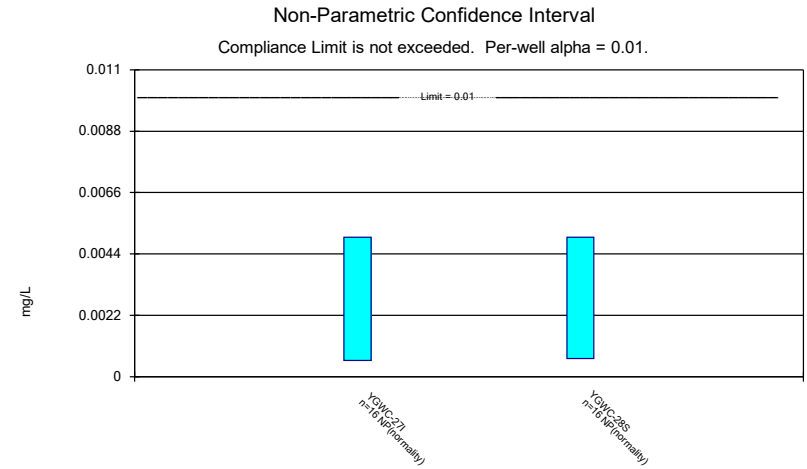
Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:10 PM

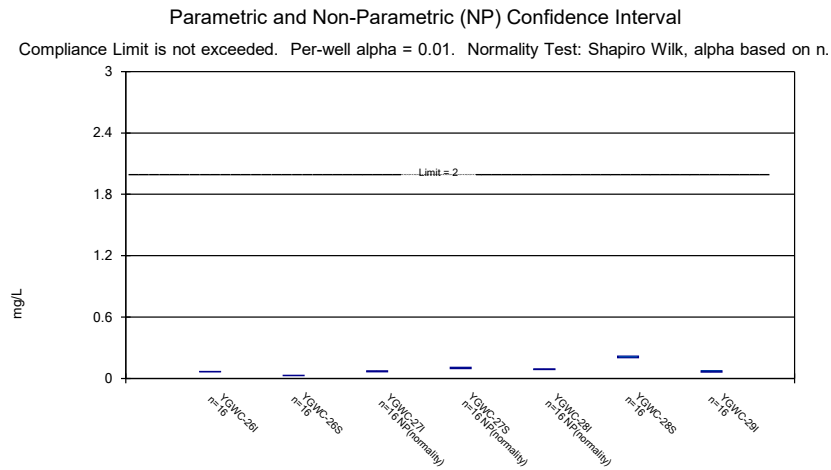
| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|----------|------------|------------|------------|------|----|-----------|-----------|-------|--------------|-----------|-------|----------------|
| Antimony (mg/L) | YGWC-26I | 0.003 | 0.00059 | 0.006 | No | 12 | 0.002593 | 0.0009518 | 83.33 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-26S | 0.003 | 0.0017 | 0.006 | No | 12 | 0.002775 | 0.0005259 | 83.33 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27I | 0.003 | 0.00033 | 0.006 | No | 12 | 0.002778 | 0.0007708 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27S | 0.003 | 0.0003 | 0.006 | No | 12 | 0.002775 | 0.0007794 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-27I | 0.005 | 0.00058 | 0.01 | No | 16 | 0.00284 | 0.002236 | 50 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | YGWC-28S | 0.005 | 0.00065 | 0.01 | No | 16 | 0.002844 | 0.002228 | 50 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-26I | 0.06702 | 0.06349 | 2 | No | 16 | 0.06526 | 0.002713 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-26S | 0.02866 | 0.02645 | 2 | No | 16 | 0.02756 | 0.0017 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-27I | 0.0728 | 0.063 | 2 | No | 16 | 0.06765 | 0.006649 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-27S | 0.108 | 0.096 | 2 | No | 16 | 0.1018 | 0.007225 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-28I | 0.0915 | 0.0862 | 2 | No | 16 | 0.08876 | 0.003645 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-28S | 0.2177 | 0.2027 | 2 | No | 16 | 0.2102 | 0.01155 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-29I | 0.0732 | 0.06226 | 2 | No | 16 | 0.06773 | 0.008408 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | YGWC-26S | 0.003 | 0.00011 | 0.004 | No | 14 | 0.000565 | 0.001032 | 14.29 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | YGWC-27I | 0.003 | 0.0001 | 0.004 | No | 14 | 0.0007907 | 0.001198 | 21.43 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | YGWC-28I | 0.00055 | 0.00009 | 0.005 | No | 14 | 0.0003343 | 0.0004118 | 14.29 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | YGWC-29I | 0.00026 | 0.0001 | 0.005 | No | 14 | 0.0003371 | 0.0003901 | 14.29 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | YGWC-26I | 0.01 | 0.0006 | 0.1 | No | 14 | 0.006294 | 0.004571 | 57.14 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-26S | 0.002761 | 0.001323 | 0.1 | No | 14 | 0.003943 | 0.003491 | 21.43 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Chromium (mg/L) | YGWC-27S | 0.015 | 0.0005 | 0.1 | No | 14 | 0.009679 | 0.002959 | 85.71 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28I | 0.01 | 0.0005 | 0.1 | No | 14 | 0.007958 | 0.004058 | 78.57 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28S | 0.01 | 0.0005 | 0.1 | No | 14 | 0.008642 | 0.003452 | 85.71 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-29I | 0.01 | 0.0005 | 0.1 | No | 14 | 0.009321 | 0.002539 | 92.86 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-26S | 0.002891 | 0.001983 | 0.035 | No | 16 | 0.0025 | 0.0008446 | 6.25 | None | ln(x) | 0.01 | Param. |
| Cobalt (mg/L) | YGWC-27I | 0.0495 | 0.0017 | 0.035 | No | 16 | 0.02107 | 0.02867 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-27S | 0.0026 | 0.0022 | 0.035 | No | 16 | 0.002544 | 0.0006723 | 6.25 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-28I | 0.005 | 0.00042 | 0.035 | No | 16 | 0.004714 | 0.001145 | 93.75 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-28S | 0.0012 | 0.00085 | 0.035 | No | 16 | 0.001263 | 0.001007 | 6.25 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-29I | 0.005 | 0.0006 | 0.035 | No | 16 | 0.003882 | 0.002 | 75 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | 1.231 | 0.4873 | 5 | No | 15 | 0.8594 | 0.5491 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26S | 0.9282 | 0.5491 | 5 | No | 16 | 0.7387 | 0.2913 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27I | 4.272 | 2.921 | 5 | No | 16 | 3.596 | 1.038 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27S | 1.087 | 0.6697 | 5 | No | 16 | 0.8785 | 0.3209 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | 0.948 | 0.245 | 5 | No | 16 | 0.6106 | 0.348 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28S | 0.9165 | 0.4416 | 5 | No | 16 | 0.6791 | 0.365 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-29I | 1.199 | 0.6989 | 5 | No | 16 | 0.9488 | 0.384 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-26I | 0.3 | 0.071 | 4 | No | 17 | 0.1822 | 0.1152 | 47.06 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-26S | 0.35 | 0.24 | 4 | No | 17 | 0.2685 | 0.1021 | 64.71 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | YGWC-27I | 0.3 | 0.086 | 4 | No | 17 | 0.2394 | 0.09945 | 70.59 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | YGWC-27S | 0.2457 | 0.1134 | 4 | No | 17 | 0.2113 | 0.1111 | 17.65 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-28I | 0.3 | 0.08 | 4 | No | 17 | 0.1956 | 0.1074 | 29.41 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-28S | 0.3044 | 0.1886 | 4 | No | 17 | 0.2465 | 0.09239 | 11.76 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-29I | 0.3 | 0.059 | 4 | No | 17 | 0.1693 | 0.1149 | 41.18 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | YGWC-26I | 0.005 | 0.000059 | 0.015 | No | 12 | 0.004588 | 0.001426 | 91.67 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-26S | 0.005 | 0.0001 | 0.015 | No | 12 | 0.004182 | 0.001911 | 83.33 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-27S | 0.005 | 0.000085 | 0.015 | No | 12 | 0.003779 | 0.002209 | 75 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-28S | 0.005 | 0.00007 | 0.015 | No | 12 | 0.003767 | 0.002231 | 75 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | YGWC-26I | 0.007022 | 0.006453 | 0.04 | No | 16 | 0.006738 | 0.000438 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-27I | 0.01085 | 0.008414 | 0.04 | No | 16 | 0.009631 | 0.001871 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-28I | 0.007106 | 0.006657 | 0.04 | No | 16 | 0.006881 | 0.0003449 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-29I | 0.006631 | 0.005481 | 0.04 | No | 16 | 0.006056 | 0.0008839 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | YGWC-27I | 0.01 | 0.0013 | 0.1 | No | 16 | 0.006756 | 0.004328 | 62.5 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-28I | 0.01 | 0.0013 | 0.1 | No | 16 | 0.006206 | 0.004443 | 56.25 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-28S | 0.01 | 0.0007 | 0.1 | No | 16 | 0.008831 | 0.003194 | 87.5 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-26I | 0.0023 | 0.0017 | 0.05 | No | 14 | 0.003071 | 0.002941 | 14.29 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | YGWC-26S | 0.01 | 0.0012 | 0.05 | No | 14 | 0.00745 | 0.004192 | 71.43 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28I | 0.01 | 0.0012 | 0.05 | No | 14 | 0.009371 | 0.002352 | 92.86 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28S | 0.01 | 0.001 | 0.05 | No | 14 | 0.009357 | 0.002405 | 92.86 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-26S | 0.001 | 0.000057 | 0.002 | No | 12 | 0.0008427 | 0.0003675 | 83.33 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-27S | 0.001 | 0.0001 | 0.002 | No | 12 | 0.0005525 | 0.0004674 | 50 | None | No | 0.01 | NP (normality) |



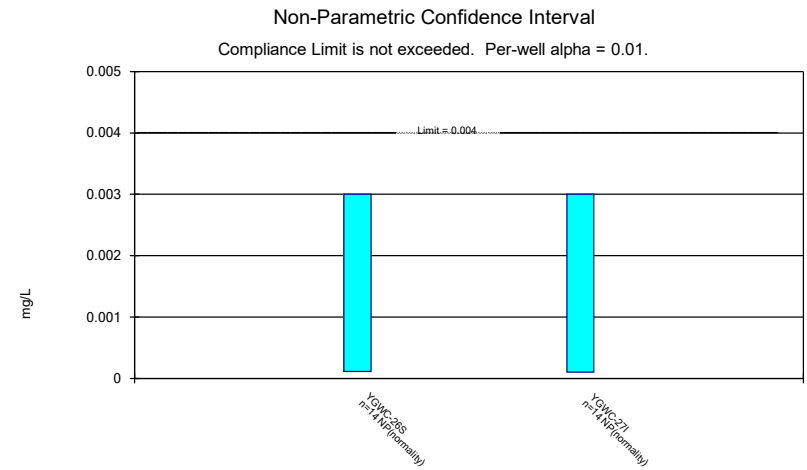
Constituent: Antimony Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



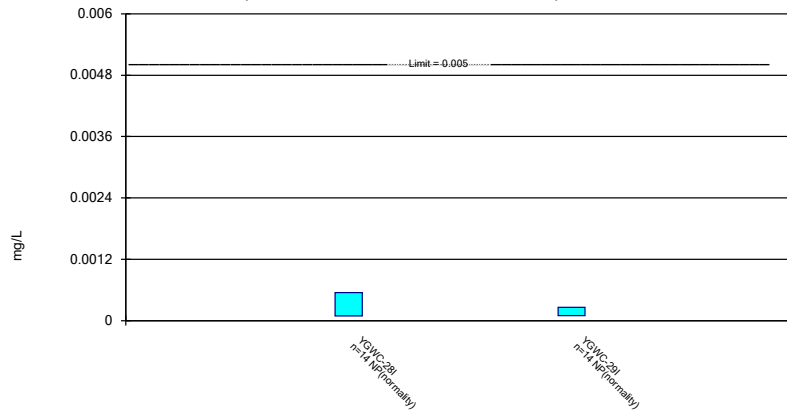
Constituent: Barium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Beryllium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

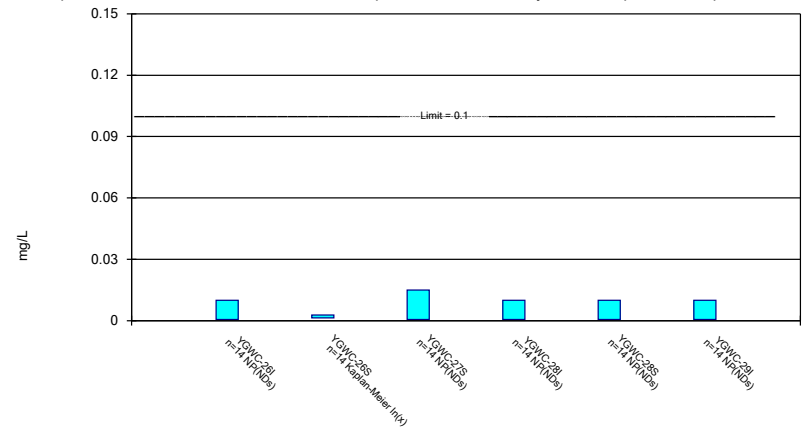
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Constituent: Cadmium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

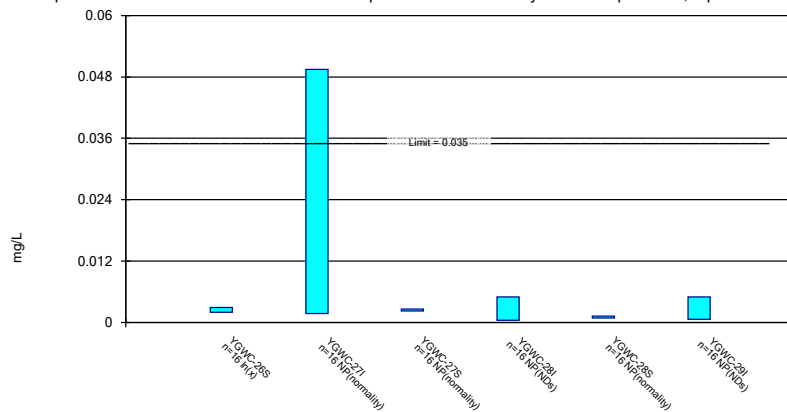
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

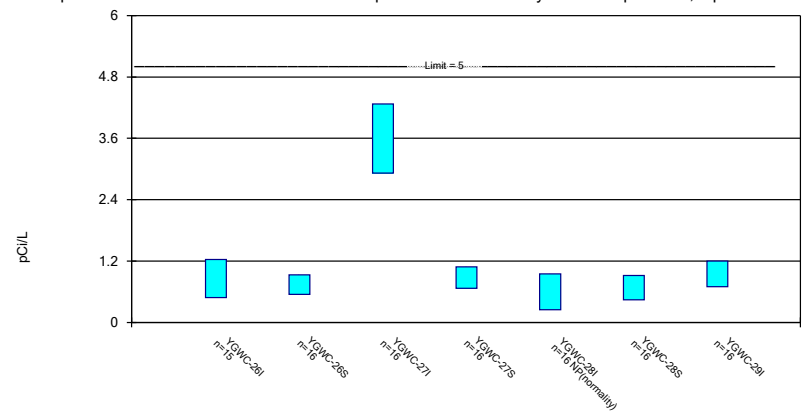
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/12/2020 4:09 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

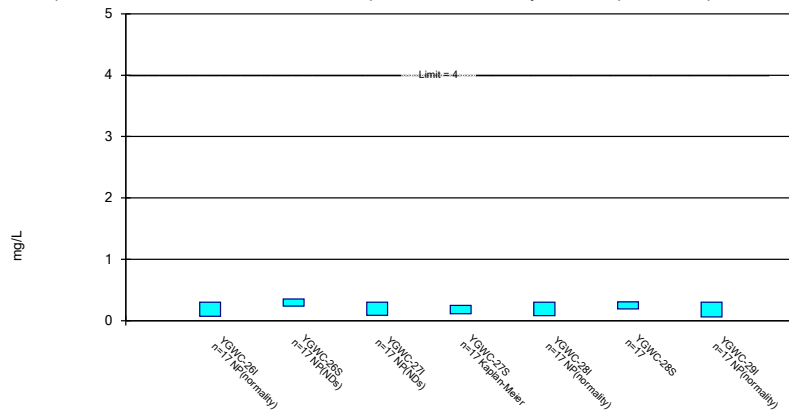
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 4:09 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

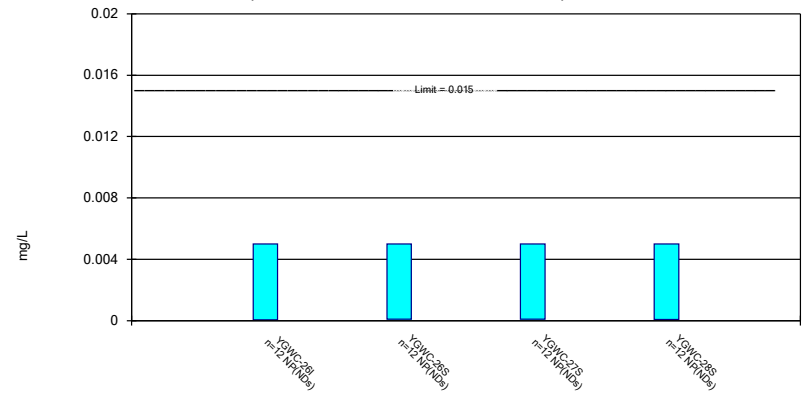
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

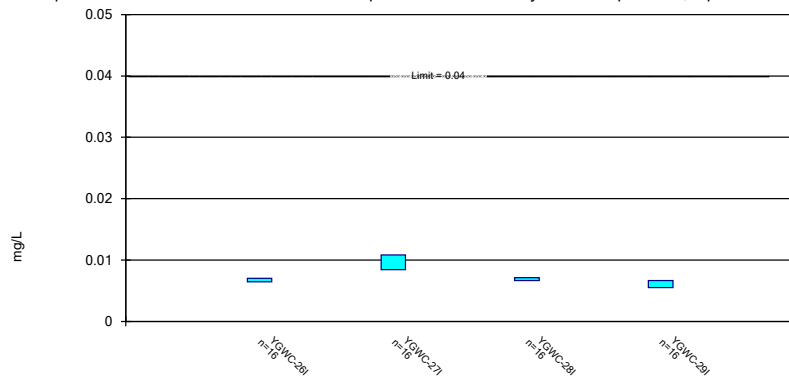
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

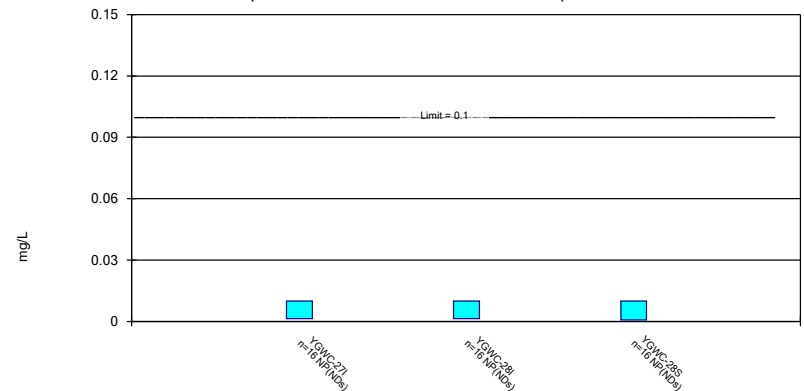
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

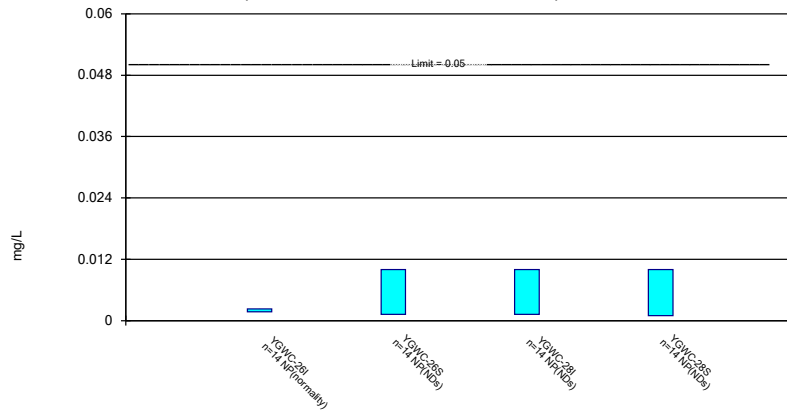
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

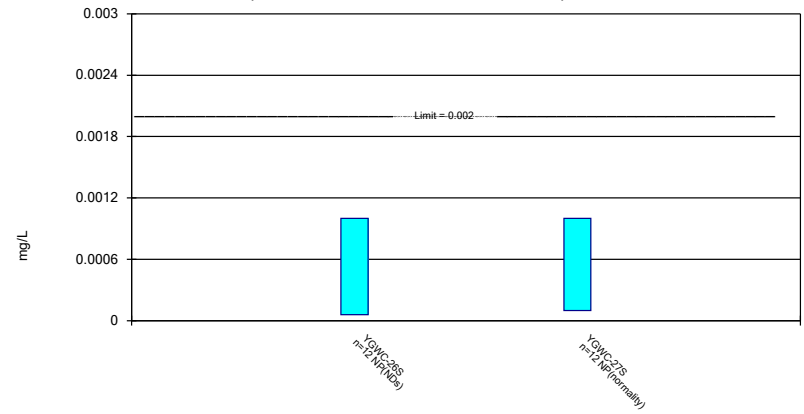
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 5/12/2020 4:09 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.



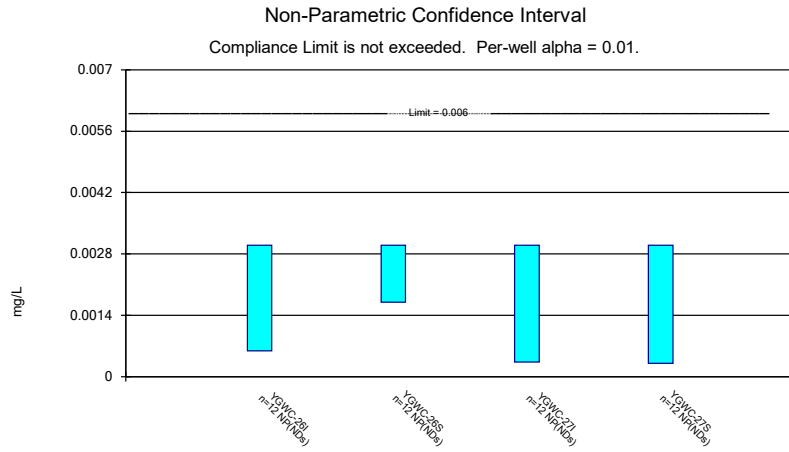
Constituent: Thallium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE K.

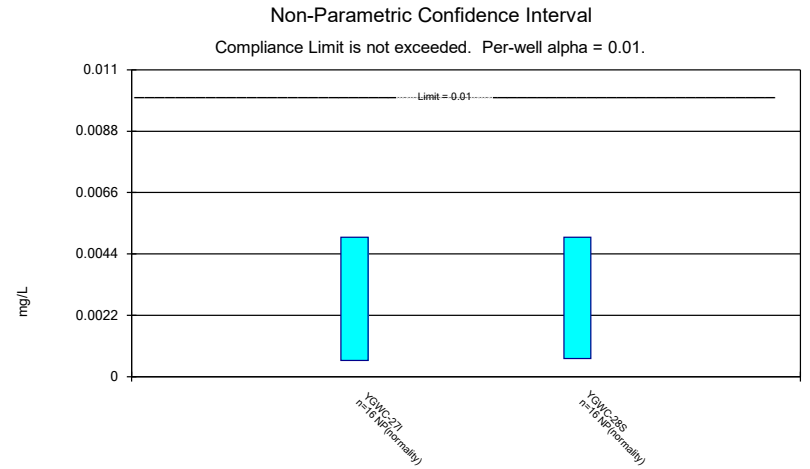
State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:07 PM

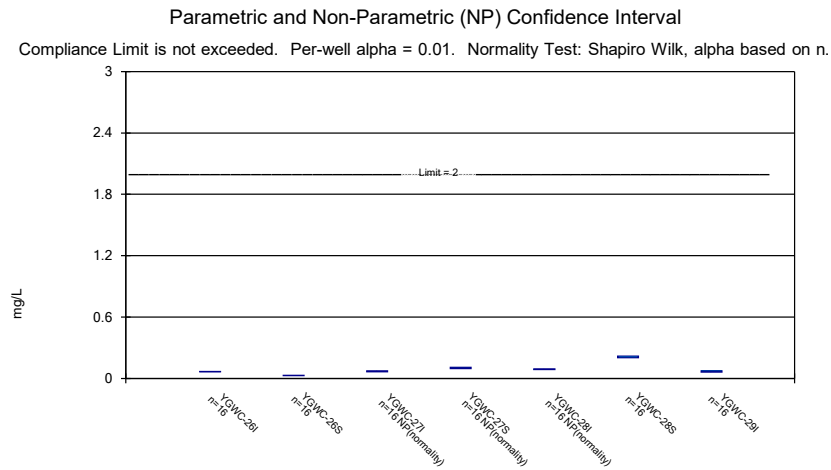
| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|----------|------------|------------|------------|------|----|-----------|-----------|-------|--------------|-----------|-------|----------------|
| Antimony (mg/L) | YGWC-26I | 0.003 | 0.00059 | 0.006 | No | 12 | 0.002593 | 0.0009518 | 83.33 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-26S | 0.003 | 0.0017 | 0.006 | No | 12 | 0.002775 | 0.0005259 | 83.33 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27I | 0.003 | 0.00033 | 0.006 | No | 12 | 0.002778 | 0.0007708 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27S | 0.003 | 0.0003 | 0.006 | No | 12 | 0.002775 | 0.0007794 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-27I | 0.005 | 0.00058 | 0.01 | No | 16 | 0.00284 | 0.002236 | 50 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | YGWC-28S | 0.005 | 0.00065 | 0.01 | No | 16 | 0.002844 | 0.002228 | 50 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-26I | 0.06702 | 0.06349 | 2 | No | 16 | 0.06526 | 0.002713 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-26S | 0.02866 | 0.02645 | 2 | No | 16 | 0.02756 | 0.0017 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-27I | 0.0728 | 0.063 | 2 | No | 16 | 0.06765 | 0.006649 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-27S | 0.108 | 0.096 | 2 | No | 16 | 0.1018 | 0.007225 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-28I | 0.0915 | 0.0862 | 2 | No | 16 | 0.08876 | 0.003645 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | YGWC-28S | 0.2177 | 0.2027 | 2 | No | 16 | 0.2102 | 0.01155 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-29I | 0.0732 | 0.06226 | 2 | No | 16 | 0.06773 | 0.008408 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | YGWC-26S | 0.003 | 0.00011 | 0.004 | No | 14 | 0.000565 | 0.001032 | 14.29 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | YGWC-27I | 0.003 | 0.0001 | 0.004 | No | 14 | 0.0007907 | 0.001198 | 21.43 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | YGWC-28I | 0.00055 | 0.00009 | 0.005 | No | 14 | 0.0003343 | 0.0004118 | 14.29 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | YGWC-29I | 0.00026 | 0.0001 | 0.005 | No | 14 | 0.0003371 | 0.0003901 | 14.29 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | YGWC-26I | 0.01 | 0.0006 | 0.1 | No | 14 | 0.006294 | 0.004571 | 57.14 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-26S | 0.002761 | 0.001323 | 0.1 | No | 14 | 0.003943 | 0.003491 | 21.43 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Chromium (mg/L) | YGWC-27S | 0.015 | 0.0005 | 0.1 | No | 14 | 0.009679 | 0.002959 | 85.71 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28I | 0.01 | 0.0005 | 0.1 | No | 14 | 0.007958 | 0.004058 | 78.57 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28S | 0.01 | 0.0005 | 0.1 | No | 14 | 0.008642 | 0.003452 | 85.71 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-29I | 0.01 | 0.0005 | 0.1 | No | 14 | 0.009321 | 0.002539 | 92.86 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-26S | 0.002891 | 0.001983 | 0.035 | No | 16 | 0.0025 | 0.0008446 | 6.25 | None | ln(x) | 0.01 | Param. |
| Cobalt (mg/L) | YGWC-27I | 0.0495 | 0.0017 | 0.035 | No | 16 | 0.02107 | 0.02867 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-27S | 0.0026 | 0.0022 | 0.035 | No | 16 | 0.002544 | 0.0006723 | 6.25 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-28I | 0.005 | 0.00042 | 0.035 | No | 16 | 0.004714 | 0.001145 | 93.75 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-28S | 0.0012 | 0.00085 | 0.035 | No | 16 | 0.001263 | 0.001007 | 6.25 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-29I | 0.005 | 0.0006 | 0.035 | No | 16 | 0.003882 | 0.002 | 75 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | 1.231 | 0.4873 | 5 | No | 15 | 0.8594 | 0.5491 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26S | 0.9282 | 0.5491 | 5 | No | 16 | 0.7387 | 0.2913 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27I | 4.272 | 2.921 | 5 | No | 16 | 3.596 | 1.038 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27S | 1.087 | 0.6697 | 5 | No | 16 | 0.8785 | 0.3209 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | 0.948 | 0.245 | 5 | No | 16 | 0.6106 | 0.348 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28S | 0.9165 | 0.4416 | 5 | No | 16 | 0.6791 | 0.365 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-29I | 1.199 | 0.6989 | 5 | No | 16 | 0.9488 | 0.384 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-26I | 0.3 | 0.071 | 4 | No | 17 | 0.1822 | 0.1152 | 47.06 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-26S | 0.35 | 0.24 | 4 | No | 17 | 0.2685 | 0.1021 | 64.71 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | YGWC-27I | 0.3 | 0.086 | 4 | No | 17 | 0.2394 | 0.09945 | 70.59 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | YGWC-27S | 0.2457 | 0.1134 | 4 | No | 17 | 0.2113 | 0.1111 | 17.65 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-28I | 0.3 | 0.08 | 4 | No | 17 | 0.1956 | 0.1074 | 29.41 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-28S | 0.3044 | 0.1886 | 4 | No | 17 | 0.2465 | 0.09239 | 11.76 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-29I | 0.3 | 0.059 | 4 | No | 17 | 0.1693 | 0.1149 | 41.18 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | YGWC-26I | 0.005 | 0.000059 | 0.005 | No | 12 | 0.004588 | 0.001426 | 91.67 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-26S | 0.005 | 0.0001 | 0.005 | No | 12 | 0.004182 | 0.001911 | 83.33 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-27S | 0.005 | 0.000085 | 0.005 | No | 12 | 0.003779 | 0.002209 | 75 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-28S | 0.005 | 0.00007 | 0.005 | No | 12 | 0.003767 | 0.002231 | 75 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | YGWC-26I | 0.007022 | 0.006453 | 0.03 | No | 16 | 0.006738 | 0.000438 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-27I | 0.01085 | 0.008414 | 0.03 | No | 16 | 0.009631 | 0.001871 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-28I | 0.007106 | 0.006657 | 0.03 | No | 16 | 0.006881 | 0.0003449 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-29I | 0.006631 | 0.005481 | 0.03 | No | 16 | 0.006056 | 0.0008839 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | YGWC-27I | 0.01 | 0.0013 | 0.014 | No | 16 | 0.006756 | 0.004328 | 62.5 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-28I | 0.01 | 0.0013 | 0.014 | No | 16 | 0.006206 | 0.004443 | 56.25 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-28S | 0.01 | 0.0007 | 0.014 | No | 16 | 0.008831 | 0.003194 | 87.5 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-26I | 0.0023 | 0.0017 | 0.05 | No | 14 | 0.003071 | 0.002941 | 14.29 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | YGWC-26S | 0.01 | 0.0012 | 0.05 | No | 14 | 0.00745 | 0.004192 | 71.43 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28I | 0.01 | 0.0012 | 0.05 | No | 14 | 0.009371 | 0.002352 | 92.86 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28S | 0.01 | 0.001 | 0.05 | No | 14 | 0.009357 | 0.002405 | 92.86 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-26S | 0.001 | 0.000057 | 0.002 | No | 12 | 0.0008427 | 0.0003675 | 83.33 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-27S | 0.001 | 0.0001 | 0.002 | No | 12 | 0.0005525 | 0.0004674 | 50 | None | No | 0.01 | NP (normality) |



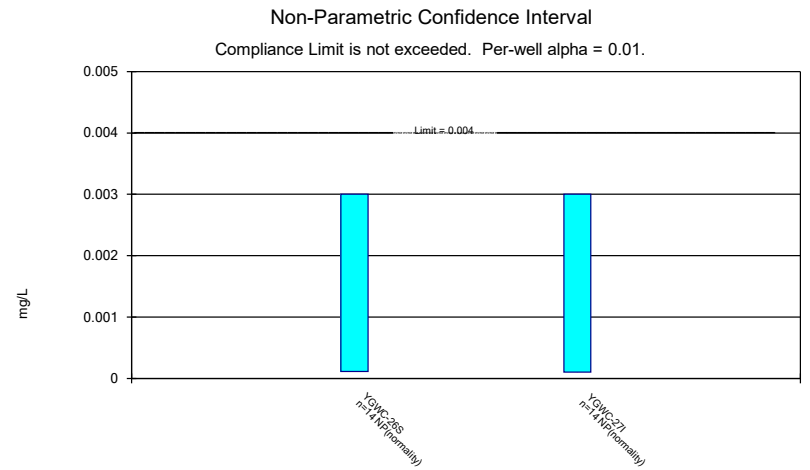
Constituent: Antimony Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



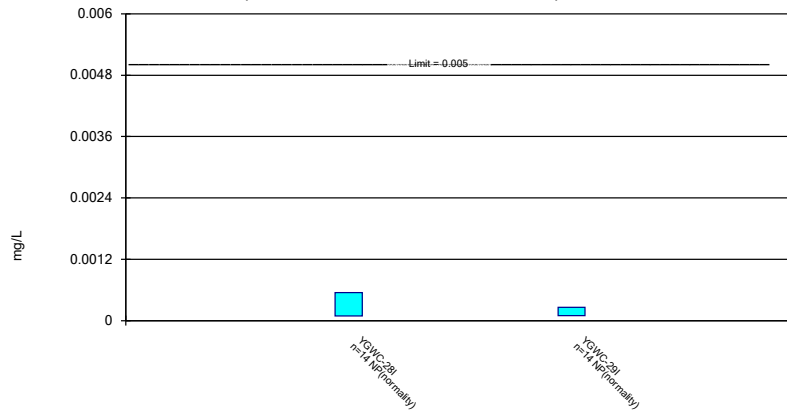
Constituent: Barium Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Beryllium Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

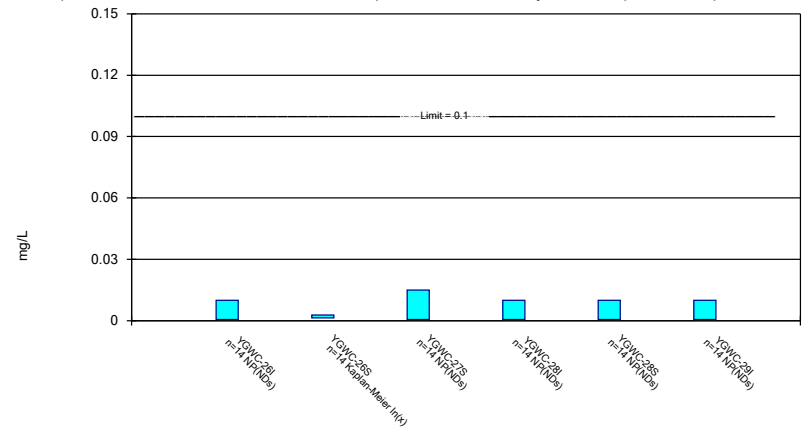
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

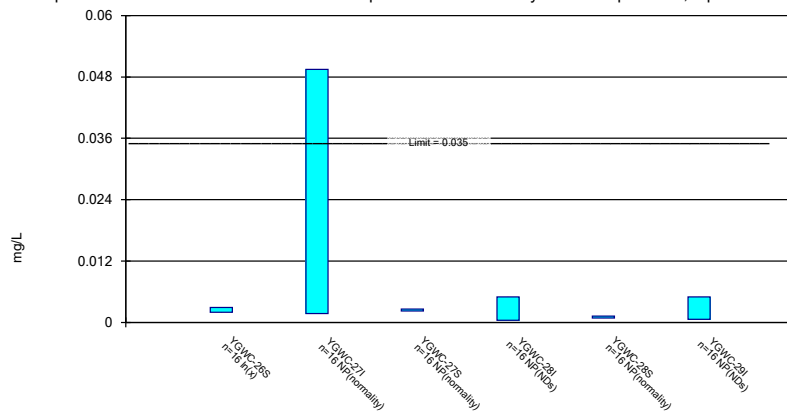
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

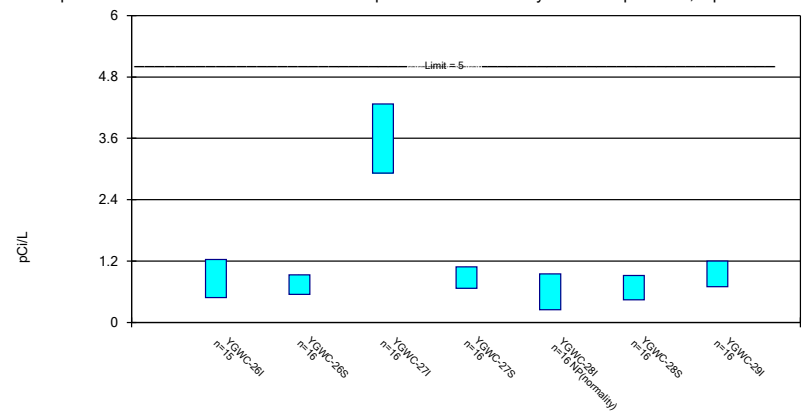
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

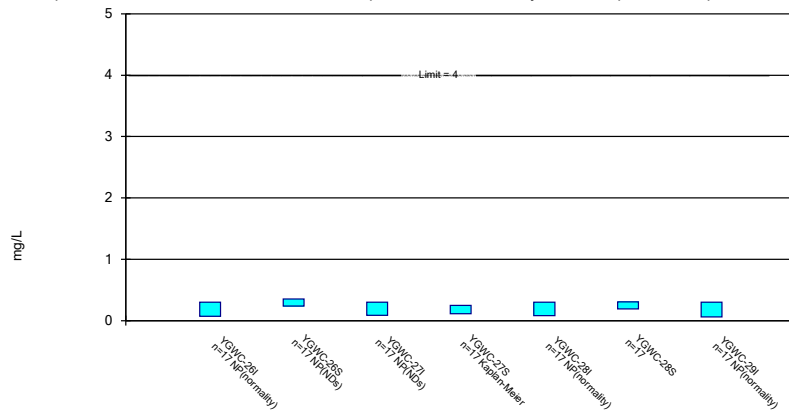
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 4:07 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

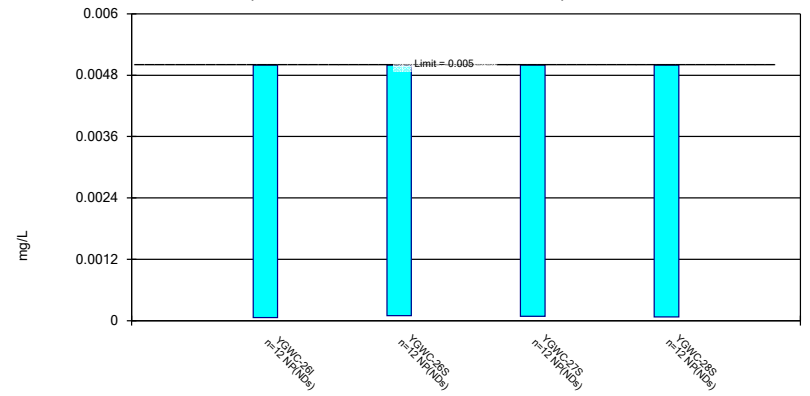
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/12/2020 4:07 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

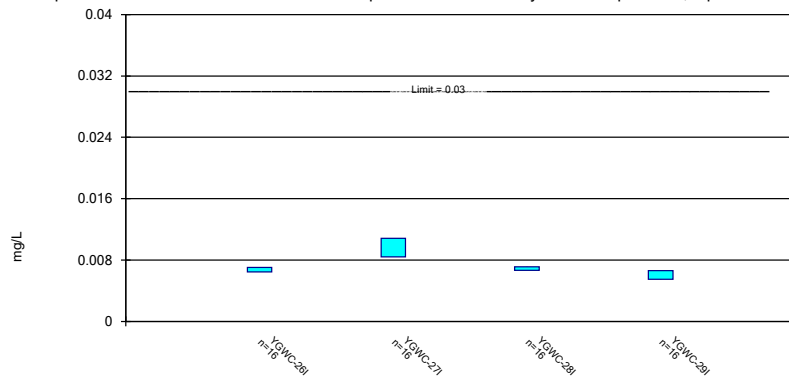
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/12/2020 4:07 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

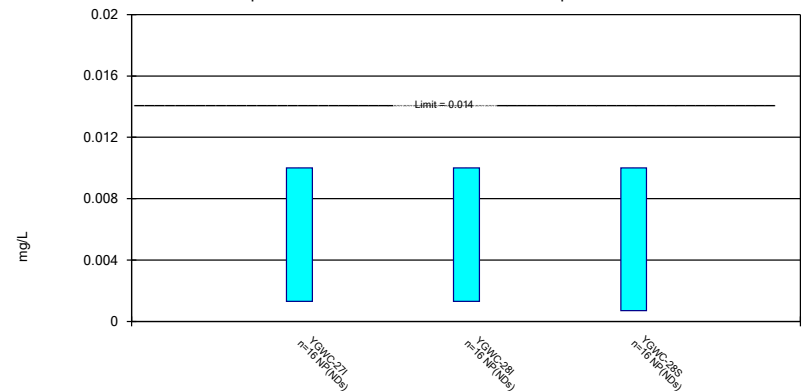
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/12/2020 4:07 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

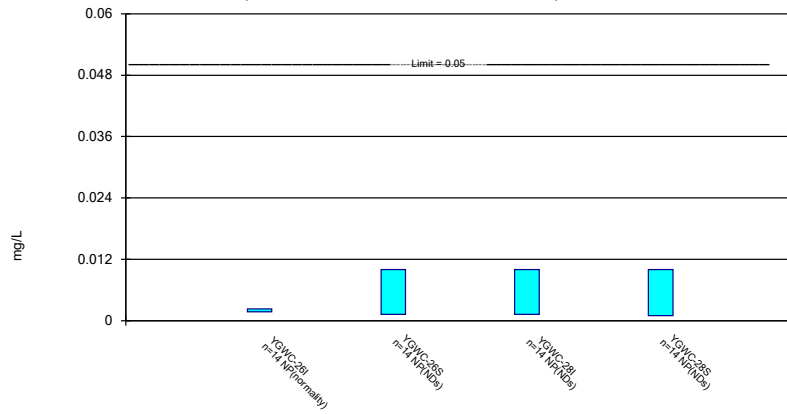
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/12/2020 4:07 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

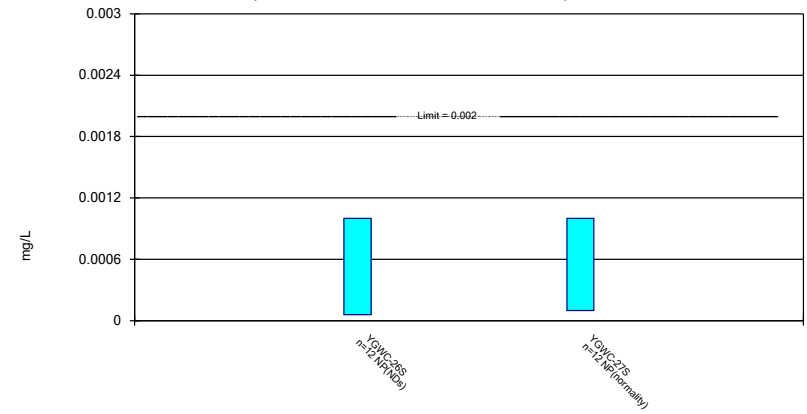
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 5/12/2020 4:07 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: Thallium Analysis Run 5/12/2020 4:07 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Arcadis U.S., Inc.

2839 Paces Ferry Road

Suite 900

Atlanta, Georgia 30339

Tel 770 431 8666

Fax 770 435 2666

www.arcadis.com

A decorative graphic consisting of three thin orange lines. One is a horizontal line extending across the width of the page. Two others are diagonal lines starting from the bottom left and extending towards the top right, crossing the horizontal line.